



Technology with Vision

HELLA
AFTERMARKET CATALOGUE
2016-2017





WELCOME TO HELLA

Over 100 years ago, HELLA began with a vision of automotive innovation and safety, which remains at our core today.

With quality products developed and built using state-of-the-art technology, the road ahead looks bright.

- Expert professional advice from qualified auto-electricians
- Information on product availability and new releases
- Assistance with product selection and installation
- Online services include searchable automotive catalogue, store locator, newsletters and latest technology developments

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PREMIUM QUALITY FOR THE AUSTRALIAN AFTERMARKET YESTERDAY, TODAY, TOMORROW

HELLA KGaA Hueck & Co. was founded in Germany in 1899. Today HELLA is one of the top fifty automotive suppliers in the world, and is listed as one of the 100 largest German industrial companies. HELLA employs more than 32,000 employees at over 100 locations across 35 countries and with more than 6,000 employees working in Research & Development, HELLA is a key innovator and partner to the World's leading Original Equipment manufacturers.

HELLA Australia Pty Ltd was established in Victoria, Australia in 1961, where we remain today. With access to the complete HELLA product portfolio, joint ventures and partners, we are able to offer in excess of 40,000 parts from the following product categories:

- Air Conditioning **Behr HELLA Service**
- Braking **HELLA Pagid Brake Systems**
- Electrics **HELLA**
- Electronics **HELLA**
- Lighting **HELLA**
- Thermal **Behr HELLA Service**
- Filtration **Mann & Hummel**
- Tools & Diagnostics **HELLA Gutmann Solutions**

From the above product categories we are able to support numerous industry sectors including Automotive, Agriculture, Commercial Vehicle, Construction, Emergency Services, Marine, Mining and Municipal, and our national sales team are there to assist our customers by offering sales, marketing, training and technical support.



Darren Robinson
Managing Director
HELLA Australia Aftermarket

The advantages of buying from HELLA Australia are clear – giving our customers access to:

- Brands that are well known and respected;
- Real product expertise, that only an OE manufacturer can offer;
- The latest innovative products and technologies;
- Leading Technical Support and Training;
- Sales and Marketing support to help grow your business;
- Lighting designs across all industry sectors.

More than 40,000 quality parts and tools offering:

- **High performance** – output and life;
- **Easy to install** – exact replacements;
- **Fit & Forget** – fewer returns and warranty issues;
- **Longer Life** – more durable, reliable parts;
- **First to market** – straight from OE production sites;
- **Life time value** – longer lasting, reducing vehicle downtime.



ICONS EXPLAINED

A variety of symbols are used to ensure a quick reference to many important product features throughout the catalogue.



DURALED® LIFETIME WARRANTY

Refer to details on Page 531.



5 YEAR WARRANTY ON LED

Refer to details on Page 531.



FIT & FORGET BY DESIGN



ULTRA LONG LIFE LONGEVITY



MULTIVOLT™

Can be connected to either 12 or 24 volt DC electrical systems.

Refer to details on Page 11.



DUALVOLT

12 or 24 Volt DC



GLOBE INCLUDED



12V or 24V GLOBE INCLUDED



ENHANCED DEFINITION TECHNOLOGY

Utilises Enhanced Definition Technology (EDT) to maximise the visual impact of the signal function.

Refer to details on Page 11.



HELLA COMPATIBILITY SOLUTION (HCS)

HCS technology for safe and seamless conversion to LED direction indicators.

Refer to details on Pages 11 and 318.



LED TECHNOLOGY

Combining quality LEDs with advanced optic technology for class-leading efficiency.



...



NUMBER OF LED LIGHT SOURCES

Defines the number of LED light sources used by the product.



GRILAMID® LENS MATERIAL

High performance clear Polyamide for extreme impact, UV, chemical and stress resistance.

Refer to details on Page 11 & 206.



RFCOMMSAFETM

Electromagnetic Compatibility (EMC).

Refer to details on Pages 11, 64 & 181.



ULTRAVIOLET RESISTANT

Utilises advanced impact resistant polymers that will not yellow or deteriorate.



ULTRA WIDE VISIBILITY OPTICS

Providing increased light intensity that is well above ADR requirements for significantly improved side visibility.



CORROSION-PROOF HOUSING



HEAVY DUTY MOUNT



STAINLESS STEEL BRACKET



ECE CERTIFIED

Product is licensed according to ECE guidelines.



ADR COMPLIANT

Products displaying this symbol comply with Australian Design Rule, or ADR requirements.

Refer to details on Page 478.



GGVSEB/ADR

(European Regulations)

Refer to details on Page 181.



RCM COMPLIANT

Regulatory Compliance Mark

Refer to details on Page 181.



DISPLAY PACK

Supplied in printed packaging suitable for retail display.



HANG-SELL PACKAGING

Supplied in hang-sell blister packaging for retail display on existing merchandising systems.



Marker and Signal Lamps

The range of HELLA Marker and Signal Lamps have been accepted as the most advanced lighting solution for commercial vehicles.





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Marker and Signal Lamps

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LED MARKER AND SIGNAL LAMPS

Our expanding range of LED based marker and signal lamps has been accepted as the most advanced solution to trim maintenance expenses of Commercial Transport Fleets and Operators.

Since the introduction of the first HELLA LED signal lamp in 1990, this innovative technology has set new standards and received considerable worldwide recognition. Over two decades, we have refined our designs and developed production technologies now used in millions of lamps produced annually, all engineered and tested to the most demanding standards.

Our local research, development and production facilities have allowed us to respond quickly to market feedback from Australian manufacturers of transport equipment, as well as many discerning Fleet Operators from all over the globe. Their input has been invaluable and has ultimately helped HELLA manufactured LED technology products to succeed in world markets.

HELLA Fit and Forget LED lighting systems are now firmly established as the solution that fully meets both environmental and economic considerations of the astute operator, in an ever growing catalogue of applications.

DuraLED®

HELLA's growing range of DuraLED® lamps, incorporating the latest LED technology, has proven to be the superior economic and environmental choice for transport operators. DuraLED® has a track record to last the distance. The first DuraLED® lamps were supplied in 1998, some 16 years ago and are still in use today.

DuraLED® lamps offer distinctive designs with shallow shapes and concealed mounting screws for enhanced protection against damage.

Most marker and signal lamps are pre-wired with sheathed multi-core cable, fully sealed against dust and moisture to International Protection Standards IP 6K6/IP 6K7, and compliant with current ADR (Australian Design Rules). As a result, these lamps are approved for use in Australia.

Once again following market demand, we now offer a range of selected models of DuraLED® lamps with moulded-in-Deutsch (DT) Connectors.

HELLA's innovative DuraLED® lamps are designed for use on trucks, buses, caravans, emergency vehicles and speciality applications. The range includes marker lamps, direction indicators, end outline lamps, position lamps, high intensity warning signal lamps and a combination stop/rear position/indicator lamp range incorporating special ultra wide optics for enhanced visibility.

EuroLED®

The EuroLED® marker and signal range of LED lamps harness the benefits of a single high intensity LED. The use of precision optics give the EuroLED® lamp a unique look along with the benefits of low power consumption. EuroLED® marker and signal lamps feature a shallow design and special ultra wide optics for significantly improved side visibility.

EuroLED® lamps are also shockproof and fully sealed to withstand temporary water submersion and high-pressure washing, ensuring long service life and durability. EuroLED® lenses are made from specially formulated high impact acrylic with enhanced chemical resistance.





Superior Lens and Optic Materials

The majority of HELLA DuraLED® and EuroLED® lamps are produced using specially formulated enhanced high impact acrylic, that has superior resistance to most commonly used wash and cleaning liquids.

HELLA recommends these hermetically sealed marker and signal lamps for most commercial transport applications to provide an ultra long term and environmentally friendly lighting solution.

In 2009 HELLA took the design and development of ultra durable lighting solutions to a new level by specifying the Swiss Made high-tech material Grilamid® for some selected applications.

Grilamid® has quickly become the material of choice for the discerning equipment operator and fleet managers.

UV Resistance

Australia is exposed to some of the highest and harshest UV radiation in the world. Most consumers will have purchased and experienced products made from plastic materials that deteriorate, fade and often become brittle very quickly when exposed to the sun.

Most of the LED lighting equipment we supply is likely to be continually exposed to this harsh environment. HELLA only manufactures products from materials which are highly resistant to UV deterioration.

HELLA LED lamps are designed to withstand our harsh environmental conditions and will tolerate long term exposure to high UV levels without fading or embrittlement.



GRILAMID®
Specified by HELLA

Grilamid® has quickly become the material of choice for operators of equipment exposed to high vibration, impact and chemical conditions.

An Increasing Range of Lamps with Grilamid® Lenses and Optics

Grilamid® is a revolutionary optical grade Polyamide made in Switzerland. Grilamid® offers an unbeatable combination of properties including toughness against impact, long term UV stability and resistance to commonly used chemicals and washes. As such Grilamid® has become the specified material of choice for many of HELLA's valued commercial customers and end users.

HELLA has responded to this strong customer demand and has significantly expanded the range of products with optional Grilamid® lenses. In addition, we have taken the bold step and standardised Grilamid® for some popular lamps at no extra cost to our customers.

Long Term Transparency

Grilamid® will not lose its lustre or embrittle over time but will remain clear, transparent and impact tough for the life of the product. Grilamid® retains its superior optical performance without discolouration.

Cleaning Products

The use of cleaning chemicals and even general liquid detergents is sometimes used as a reason to void warranties for products made from Polycarbonate. Such chemicals can cause crazing and/or cracking of this particular plastic type.

Grilamid® is highly resistant to chemicals commonly used in the transport industry, even in applications where it is regularly exposed to chemicals used to wash and sterilise equipment used in our Primary Industries. It is the ideal material for a true Fit and Forget performance.

Grilamid® Retains its Toughness

LED truck and trailer lamps are frequently exposed to mechanical impacts by stones, tree branches and general shocks. Uncoated Polycarbonate will lose its impact resistance over time.

Tests prove and market feedback confirms the superior strength and toughness of Grilamid® is not compromised even through the prolonged effects of weathering and UV exposure.



Stress cracked PC.

Grilamid® subjected to the same conditions.

HELLA Marker and Signal Lamps have been accepted as the most advanced lighting solution for commercial vehicles.



Electromagnetic Compatibility (EMC)

HELLA LED lamps are electronic devices. The electrical circuits contain components that have been optimised to suppress frequencies that can interfere with communication equipment or even the common radio. The circuits are also specially designed to reduce the susceptibility to interference from electric fields.

Protection Against Damage Due to Voltage Spikes

HELLA lamps are protected against damage from positive voltage spikes caused by events such as load dump conditions and overvoltage. The circuits are also protected against reverse polarity connection and negative voltage spikes.

Easy Refurbishment of Acrylic and Grilamid® Lenses

In a world consuming resources at an ever increasing rate, HELLA LED lamps manufactured with enhanced impact acrylic and Grilamid® are a truly long-term investment.

Both these materials can be refurbished to near new condition by polishing out fine scratches and road grime.

As illustrated in the photo, a DuraLED® lamp with several years of active high mileage road use can be refurbished to pristine near new condition.



Acrylic and Grilamid® lamps can be polished to look like new.

HELLA Fit and Forget LED lighting systems are firmly established as the solution that fully meets both environmental and economic considerations of the astute operator.



TECHNICAL PRODUCT ICONS

Your guide to understanding the technical product icons found throughout the marker and signal section.



Multivolt™

One of the leading advantages of HELLA's LED technology is the Multivolt™ circuitry fitted to most of our LED lamps, ensuring a uniform level of intensity and optimum brightness. Multivolt™ LED lamps can be connected to either 12 or 24 volt DC electrical systems. The light performance will not be adversely affected by voltage drop over long cables and corroded connectors. LED lamps fitted with Multivolt™ circuitry are clearly marked throughout the catalogue.



Enhanced Definition Technology (EDT)

A stop lamp has to be instantly recognised as a warning signal. To further enhance recognition an increase in illuminated area (compared to the rear position lamp) is combined with an increase in intensity. As a result the illuminated area gets larger and brighter on an EDT lamp for increased safety and awareness



HCS - HELLA Compatibility Solution

Vehicles operating on Australian public roads require the direction indicator lamps to be monitored for correct function. When a 21 watt globe based lamp is exchanged with an LED lamp, some flasher units will not recognise this LED lamp because of its low power consumption and indicate a globe failure. Many transport fleets will operate trucks/trailers which can feature a mixture of globe based direction indicator lamps and low power consumption LED direction indicator lamps.

In 1999 HELLA designed the HELLA Compatibility Solution (HCS) to offer seamless compatibility between conventional globe based lamps and HCS equipped LED lamps. The HCS control unit recognizes either a standard globe lamp or an HCS LED lamp or a mixture thereof, and continues to work normally, without triggering the globe failure warning function.

This technical solution has become the ISO Standard 13207-1 which is being incorporated into the body electronic of European Trucks.

Astute fleet operators today specify LED lamps designed to ISO Standard 13207-1 to ensure the future-proofing of their fleet.

See page 319 for further information on HCS Technology and ISO 13207-1



Grilamid®

Grilamid® has quickly become the material of choice for operators of equipment exposed to high vibration and impact conditions as well as in applications regularly exposed to petrochemicals and chemicals used to wash and sterilise equipment used in our Primary Industries. See page 9 for further information on Grilamid®



RFCommSafe™

RFCommSafe™ products were developed in recognition that some radio communication equipment can be very sensitive in remote areas. RFCommSafe™ products are designed to ensure no interference with any other electronic equipment.

RFCommSafe™ products are designed to go well beyond the regulatory requirements as defined in international standards such as EN 55015, CISPR 14, CISPR 25 or relevant UNECE R10 Standards.



Ultra Wide Visibility Optics

HELLA continues to increase its range of LED signal lamps that incorporate Ultra Wide Visibility Optics. LED lamps strictly designed to minimum legal requirements in the horizontal +/-10 to +/-45 degree field suffer from signal fade and become less visible in bright sunlight.

By incorporating Ultra Wide Visibility Optics, HELLA LED signal lamps are much more noticeable to following drivers particularly as the vehicle in front turns and the LED stop or turn signal is viewed from an angle.

HELLA LED signal lamps, incorporating Ultra Wide Visibility Optics, far exceed the minimum legal brightness requirement beyond the +/-10 degree horizontal angle. These lamps provide a significantly enhanced stop and turn signal to the driver of the following vehicle. LED signal lamps incorporating Ultra Wide Visibility Optics, are clearly marked throughout the catalogue.

QUICK REFERENCE PRODUCT GUIDE

LED LAMPS



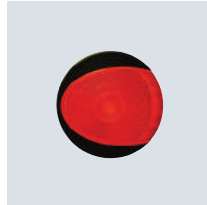
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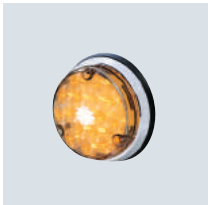
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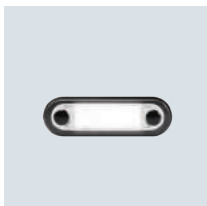
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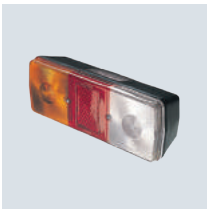


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GLOBE LAMPS



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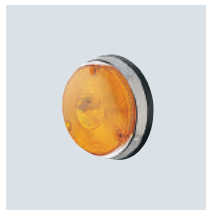
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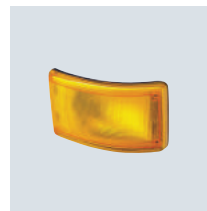
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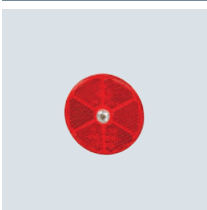


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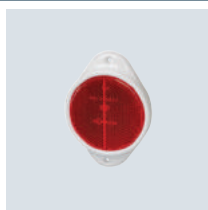


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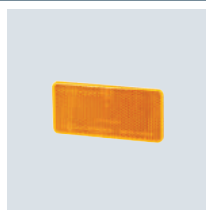
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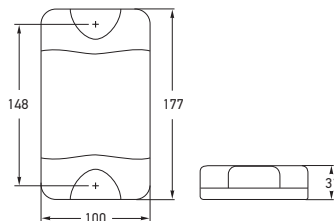
ACCESSORIES



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DuraLED® Stop/Rear Position Lamp with Night Light

DuraLED® stop, rear position lamp featuring Enhanced Definition Technology (EDT) for increased safety and awareness. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



Part Number	2330-V
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	Stop: 6W Rear position: 2.5W Night: 2.5W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 49/00 E24 5850 ECE R7/02

See page 94 for DuraLED® accessories.

DuraLED® Rear Direction Indicator Lamp

DuraLED® rear direction indicator lamp for trucks, buses, caravans and trailers. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



Part Numbers	2151-V	
	2151-VCS	HCS TECHNOLOGY
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	2151-V 6W 2151-VCS 4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a E24 5850 ECE R6/01 ISO 13207-1 (2151-VCS only)	

See page 319 for further information on HCS Technology and ISO 13207-1.

DuraLED® Reversing Lamp

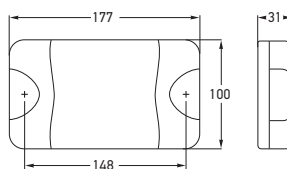
DuraLED® reversing lamp for trucks, buses, caravans and trailers.



Part Number	1430-V
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	4W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 1/00 E24 5850 ECE R23/00

Reversing lamps are not designed for continuous operation.

MARKER AND SIGNAL LAMPS



Part Numbers	2330-H
	2330-HBL BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	Stop: 6W Rear position: 2.5W Night: 2.5W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 49/00 E24 5850 ECE R7/02

See page 94 for DuraLED® accessories.

DuraLED® Stop/Rear Position Lamp with Night Light

DuraLED® stop, rear position lamp featuring Enhanced Definition Technology (EDT) for increased safety and awareness. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



P/N 2330-HBL



Part Numbers	2151-H
	2151-HBL BLISTER PACK
	2151-HCS HCS TECHNOLOGY
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	2151-H/...-HBL/...-HBULK 6W 2151-HCS 4W
Protection	As per P/N 2330-H.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 6/00: Cat 2a E24 5850 ISO 13207-1 (2151-HCS only)

See page 319 for further information on HCS Technology and ISO 13207-1

DuraLED® Rear Direction Indicator Lamp

DuraLED® rear direction indicator lamp for trucks, buses, caravans and trailers. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



P/N 2151-HBL



Part Numbers	1430-H
	1430-HBL BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	4W
Protection	As per P/N 2330-H.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 1/00 E24 5850 ECE R23/00

Reversing lamps are not designed for continuous operation.

DuraLED® Reversing Lamp

DuraLED® reversing lamp for trucks, buses, caravans and trailers.



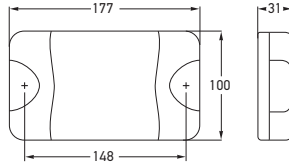
P/N 1430-HBL

DuraLED® Stop/Rear Position Lamp with Night Light

DuraLED® stop, rear position lamp featuring Enhanced Definition Technology (EDT) for increased safety and awareness. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle.



P/N 2330BL



Part Numbers	2330	
	2330BL	BLISTER PACK
	2330BULK	PACK OF 4
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W Rear position: 1W Night: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Bulk pack includes two free side markers (P/N 2053)	
Compliance	ADR 49/00	
See page 94 for DuraLED® accessories.		

DuraLED® Rear Direction Indicator Lamp

DuraLED® rear direction indicator lamp for trucks, buses, caravans and trailers.



P/N 2151BL



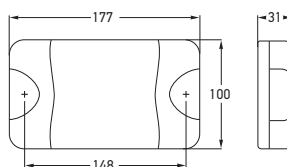
Part Numbers	2151	
	2151BL	BLISTER PACK
	2151BULK	PACK OF 4
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	9W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a	

MARKER AND SIGNAL LAMPS

Polycarbonate Lenses

Whilst polycarbonate features a higher impact resistance compared to our preferred Enhanced Impact Acrylic, the trade-off for polycarbonate is its lower resistance to a number of commonly used chemicals.

For applications where both extreme impact resistance as well as a high resistance to chemicals is required, we recommend HELLA LED lamps manufactured from Swiss-made Grilamid® Optical Nylon.



Part Number	2331BULK	PACK OF 4
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W Rear position: 1W Night: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Bulk pack includes two free side markers (P/N 2053)	
Lens Material	Polycarbonate.	
Compliance	ADR 49/00	
See page 94 for DuraLED® accessories.		

DuraLED® Stop/Rear Position Lamp with Night Light

DuraLED® stop, rear position lamp made from polycarbonate, for off-road vehicles such as logging trucks. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle, resulting in low power consumption.



Part Number	2152BULK	PACK OF 4
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	9W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Polycarbonate.	
Compliance	ADR 6/00: Cat 2a	

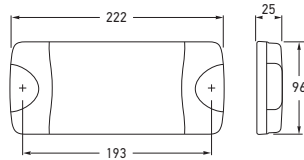
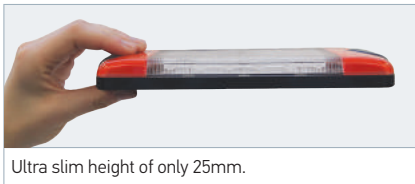
DuraLED® Rear Direction Indicator Lamp

DuraLED® rear direction indicator lamp made from polycarbonate for off-road vehicles such as logging trucks.



DuraLED® Combi-S Stop/Rear Position/Rear Direction Indicator Lamp - Heavy Duty

DuraLED® combination lamp featuring Ultra Wide Visibility Optics for significantly improved side visibility and Enhanced Definition Technology (EDT). Suitable for commercial vehicles and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Optic appears clear until illuminated.



Part Numbers	2378
	2378BL BLISTER PACK
	2378BULK PACK OF 12
	2378-CS HCS TECHNOLOGY

Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Power Consumption	Stop:	5W	
	Rear position:	1W	
	Rear direction indicator:	5W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Grilamid®		
Compliance	ADR 6/00: Cat 2a E24 5883	ADR 49/00 ECE R6/01	ISO 13207-1 (2378-CS only) ECE R7/02
See page 319 for further information on HCS Technology and ISO 13207-1			

COMBI-S LAMP FUNCTIONS		
Stop	Rear position	Rear direction indicator

DuraLED® Combi-S Trailer Lighting Kit








A complete Fit and Forget solution for commercial trailers or boat trailers.

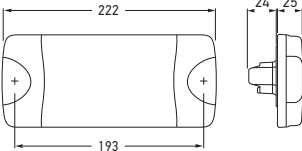



Part Number	2378-TP
Kit Contents	Each trailer lamp kit contains:
	2 x 2378 DuraLED® Combi-S stop/rear position and rear direction indicator lamp with 6m sheathed multi-core cable.
	2 x 2923 Red retro reflector
	1 x 2559 LED licence plate lamp with 5m sheathed multi-core cable.
	1 x 4921 7 pole flat plug



MARKER AND SIGNAL LAMPS









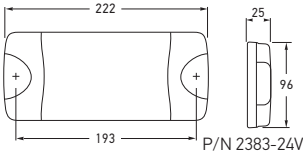
Part Numbers	2378DT			
	2378DTCS		HCS TECHNOLOGY	
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.			
Power Consumption	Stop:	5W	Rear direction indicator:	5W
	Rear position:	1W	Night:	1W
Protection	As per P/N 2378.			
Accessory	4963-P	6 pole DT plug, wedge and 6 contacts.		
Lens Material	Grilamid®			
Compliance	ADR 6/00: Cat 2a E24 5883	ADR 49/00 ECE R6/01	ISO 13207-1 (2378-DTCS only) ECE R7/02	
See page 319 for further information on HCS Technology and ISO 13207-1				

DuraLED® Combi-S Stop/Rear Position/Rear Direction Indicator Lamp with DT Connector and Night Light - Heavy Duty

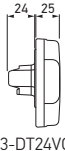
DuraLED® combination lamp featuring Ultra Wide Visibility Optics for significantly improved side visibility and Enhanced Definition Technology (EDT). Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle, resulting in low power consumption. Suitable for commercial and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Optic appears clear until illuminated.





P/N 2383-24VCS

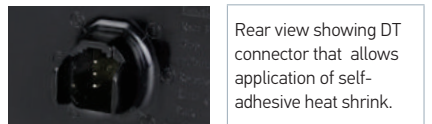
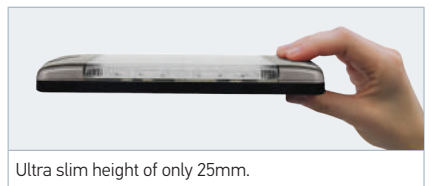


P/N 2383-DT24VCS

Part Number	2383-24VCS (Incorporates HCS technology)		2.5M CABLE	
	2383-DT24VCS (Incorporates HCS technology)		DT CONNECTOR	
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.			
Voltage	24V DC			
Power Consumption	Stop:	3W	Rear direction indicator:	3W
	Rear position:	1W	Reverse:	3W
	Night (2383-DT24VCS only):	1W		
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable (except DT versions).			
Accessory	4963-P	6 pole DT plug, wedge and 6 contacts.		
Lens Material	Grilamid®			
Compliance	E24 5894 ECE R10	ECE R6/01	ECE R7/02	ECE R23/00 ISO 13207-1

DuraLED® Combi-S Stop/Rear Position/Rear Direction Indicator/ Reversing Lamp with DT Connector and Night Light

DuraLED® combination lamp featuring modern clear lens design. Low power consumption and long life equates to economical running costs. Ideal for 24V commercial vehicles. Optic appears clear until illuminated.



COMBINATION LAMP FUNCTIONS

			
Stop	Rear position	Rear direction indicator	Reverse

DuraLED® Combi-R Stop/Rear Position/Rear Direction Indicator Lamp with Retro Reflector

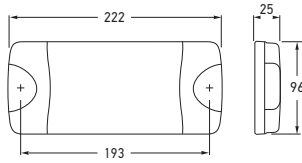
DuraLED® combination lamp with 34cm² red retro reflector which features Enhanced Definition Technology (EDT). Suitable for light commercial and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing.



P/N 2377BL



Ultra slim height of only 25mm.



Part Number	2377		
	2377BL		BLISTER PACK
	2377BULK		PACK OF 12
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Power Consumption	Stop:	4W	
	Rear position:	1W	
	Rear direction indicator:	4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Grilamid®		
Compliance	ADR 47/00 E24 5882	ADR 6/00: Cat 2a ECE R6/01	ADR 49/00 ECE R7/02 ECE R3/02
See page 94 for DuraLED® accessories.			

COMBI-R LAMP FUNCTIONS		
Stop	Rear position	Rear direction indicator

DuraLED® Combi-R Trailer Lighting Kit

A complete Fit and Forget solution for trailers or caravans.



Part Number	2377-TP	
Kit Contents	Each trailer lamp kit contains:	
	2 x 2377	DuraLED® Combi-R stop/rear position and rear direction indicator lamp with retro reflector and 6m sheathed multi-core cable.
	1 x 2559	LED licence plate lamp with 5m sheathed multi-core cable.
	1 x 4921	7 pole flat plug



The new evolution of the DuraLED® Combi has arrived.




P/N 2378



P/N 2377

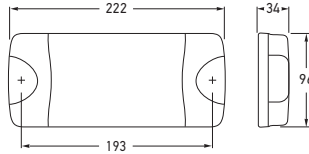
Upgrade to the Latest Technology

HELLA introduces the latest upgrade to the iconic DuraLED® Combi with a new slim design, featuring a depth of just 25mm. Combining all the features transport professionals depend upon; world-class materials, unsurpassed design, exceptional performance, and after sales service second to none, the new DuraLED® Combi will be the next staple in road transport lighting arsenals.

Part Numbers	Slim	Power Supply MULTI VOLT	RF CommSafe™ ()	Cable Length (mtrs)	Built-in DT Connector	Lens Material GMD	Lens HI PMMA	HCS HELLA Compatibility Solution	Additional Functions	Application
2377	✓	12/24V	✓	2.5	–	✓	–	–	Retro Reflector	Truck/Trailer
2378	✓	12/24V	✓	2.5	–	✓	–	–	–	Heavy Duty Commercial High Impact Protection
2378-BL	✓	12/24V	✓	2.5	–	✓	–	–	–	Heavy Duty Commercial High Impact Protection
2378-CS	✓	12/24V	✓	2.5	–	✓	–	✓	–	Heavy Duty Commercial High Impact Protection
2378-DT	✓	12/24V	✓	–	✓	✓	–	–	Night	Heavy Duty Commercial High Impact Protection
2378-DTCS	✓	12/24V	✓	–	✓	✓	–	✓	Night	Heavy Duty Commercial High Impact Protection
2379	–	8-28V	–	6	–	–	✓	–	–	Upgrade to 2378 or 2378-DT
2379-BL	–	8-28V	–	2.5	–	–	✓	–	–	Upgrade to 2378-BL
2379-CS	–	8-28V	–	6	–	–	✓	✓	–	Upgrade to 2378-CS or 2378-DTCS

DuraLED® Combi Stop/Rear Position/Rear Direction Indicator Lamp

DuraLED® combination lamp, features Ultra Wide Visibility Optics for significantly improved side visibility and Enhanced Definition Technology (EDT). Suitable for light commercial and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Optic appears clear until illuminated.



P/N 2379BL

Part Numbers	2379	
	2379BL	BLISTER PACK
	23790EBULK	PACK OF 12
	2379-CS	HCS TECHNOLOGY

Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
Voltage	Multivolt™ for optimum brightness at input voltages from 8 to 28 volts.		
Power Consumption	P/N 2379	P/N 2379-CS	
	Stop:	6W	5W
	Rear position:	1W	1.5W
	Rear direction indicator:	5W	3W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)		
Cable Length	Pre-wired with 6m of sheathed multi-core cable. Blister and bulk pack pre-wired with 2.5m of sheathed multi-core cable.		
Compliance	ADR 6/00: Cat 2a ECE R7/02	ADR 49/00 ISO 13207-1 (2379-CS only)	E4 10176 ECE R6/01

See page 319 for further information on HCS Technology and ISO 13207-1 See page 94 for DuraLED® accessories.

COMBINATION LAMP FUNCTIONS

Stop	Rear position	Rear direction indicator

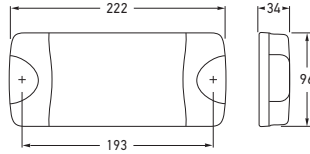
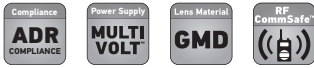
DuraLED® Multivolt™ Trailer Lighting Conversion Kit

A complete Fit and Forget solution for trailers or caravans. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



Part Number	2379-TP
Kit Contents	Each trailer lamp kit contains:
	2 x 2379 DuraLED® Combination stop/rear position and rear direction indicator lamp with 6m sheathed multi-core cable.
	2 x 2920 Red retro reflector
	1 x 2559 LED licence plate lamp with 2.5m sheathed multi-core cable.
	1 x 4921 7 pole flat plug

MARKER AND SIGNAL LAMPS

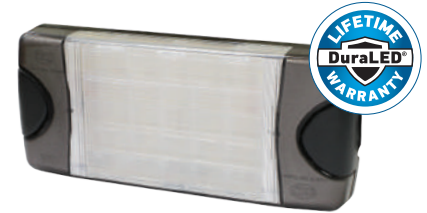


Part Numbers	2380		
	2380BL		BLISTER PACK
	2380BULK		PACK OF 12
	2380GMD		GRILAMID® LENS
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Power Consumption	Stop:	5W	
	Rear position:	1W	
	Rear direction indicator:	4W	
	Reverse:	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Compliance	ADR 1/00 E24 5870	ADR 6/00: Cat 2a ECE R6/01	ADR 49/00 ECE R7/02

See page 94 for DuraLED® accessories.

DuraLED® Combi Stop/Rear Position/Rear Direction Indicator/ Reversing Lamp

DuraLED® combination lamp featuring modern clear lens design. Low power consumption and long life equates to economical running costs. Ideal for trucks and utes. Optic appears clear until illuminated.



P/N 2380BL

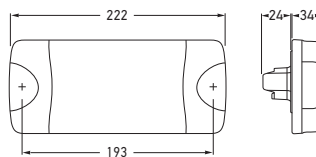
COMBINATION LAMP FUNCTIONS



Stop Rear position Rear direction indicator Reverse

DuraLED® Combi Stop/Rear Position/Rear Direction Indicator/ Reversing Lamp with DT Connector and Night Light

DuraLED® combination lamp featuring modern clear lens design. Low power consumption and long life equates to economical running costs. Ideal for trucks and utes. Optic appears clear until illuminated.



Part Numbers	2380DT		
	2380DTGMD		GRILAMID® LENS
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Power Consumption	Stop:	5W	Rear direction indicator:
	Rear position:	1W	Reverse:
	Night:	1W	3W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Accessory	4963-P	6 pole DT plug, wedge and 6 contacts.	
Compliance	ADR 1/00 E24 5870	ADR 6/00: Cat 2a ECE R6/01	ADR 49/00 ECE R7/02



P/N 4963-P
Not included with lamp.



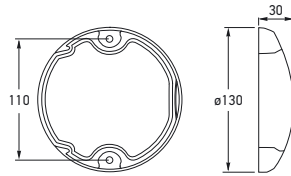
Rear view showing DT connector that allows application of self-adhesive heat shrink.




EuroLED® Stop/Rear Position Lamp

EuroLED® stop, rear position lamp with red lens. The use of precision optics enable a single high intensity LED to be used in a commercial vehicle lamp, resulting in low power consumption. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



P/N 2366BL





Part Numbers	2366
	2366BL  BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	Stop: 2.5W Rear position: 0.5W
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 49/00  10208 ECE R7/02 

See page 96 for EuroLED® accessories.

EuroLED® Stop/Rear Position Lamp -24V DC

EuroLED® stop, rear position lamp with red lens. The use of precision optics enable a single high intensity LED to be used in a commercial vehicle lamp, resulting in low power consumption. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.

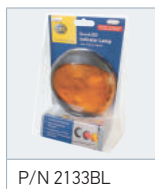
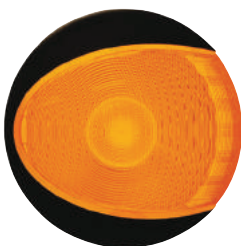


Part Number	2366-24V
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	24V DC (Voltage regulated 20-28V DC)
Power Consumption	Stop: 5W Rear position: 1W
Protection	As per P/N 2366.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 49/00  10208 ECE R7/02 

See page 96 for EuroLED® accessories.




EuroLED® Rear Direction Indicator Lamp

EuroLED® rear direction indicator lamp with amber lens and single LED. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



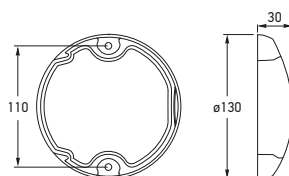
P/N 2133BL



Part Numbers	2133
	2133BL  BLISTER PACK
	2133-CS HCS TECHNOLOGY
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	2.5W
Protection	As per P/N 2366.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 6/00: Cat 2a  10208 ECE R6/01 ISO 13207-1 (2133-CS only) 

See page 319 for further information on HCS Technology and ISO 13207-1
See page 97 for Jumbo-S and Designline accessories.

MARKER AND SIGNAL LAMPS

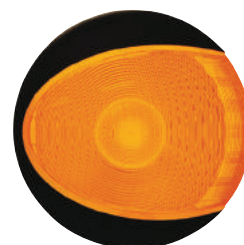


EuroLED® Rear Direction Indicator Lamp - 24V DC

EuroLED® rear direction indicator lamp with amber lens and single LED. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.

Part Number	2133-24V
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	24V DC (Voltage regulated 20-28V DC)
Power Consumption	5W
Protection	As per P/N 2366.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 6/00: Cat 2a 10208 ECE R6/01

See page 96 for EuroLED® accessories.

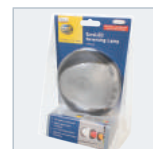


Part Numbers	1433
	1433BL BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	2.5W
Protection	As per P/N 2366.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 1/00 10208 ECE R23/00

Reversing lamps are not designed for continuous operation.

EuroLED® Reversing Lamp

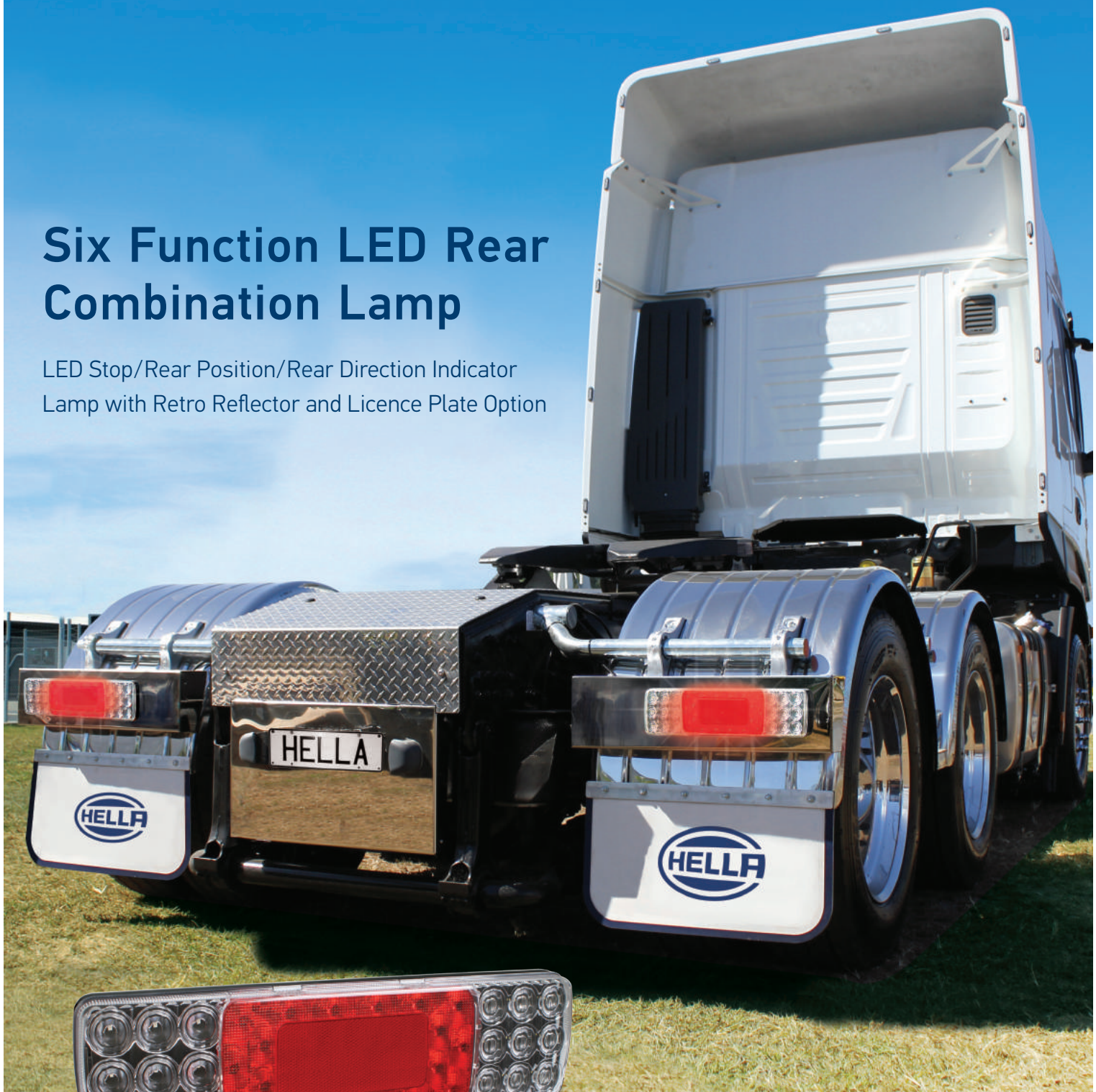
EuroLED® reversing lamp with clear lens and single LED.



P/N 1433BL

Six Function LED Rear Combination Lamp

LED Stop/Rear Position/Rear Direction Indicator Lamp with Retro Reflector and Licence Plate Option



These stylish lamps combine form with function, incorporating stop, rear position, and rear direction indicator lamps with a central reflector, and offers an optional licence plate lamp function. To combine all rear marker and signal functions in a single lamp with a single five core cable allows for a significant reduction in installation time.

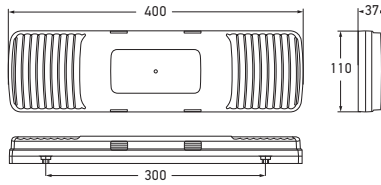
This lamp is protected by a lens made of specially formulated high impact acrylic, which is resistant to long-term harsh UV exposure and tolerant to chemicals commonly used in the transport industry. Our team designed this lamp to HELLA's Fit and Forget standard, to withstand the most demanding environments.



Combination Lamp with Attractive Retail Packaging

All features of this six function rear combination lamp, including the latest ISO 13207-1 compliance, are designed to ensure lowest cost of ownership for the astute transport operator.

MARKER AND SIGNAL LAMPS



Part Number	2391	HCS TECHNOLOGY
Mounting	Two bolt surface mount with mounting accessories supplied. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop:	5W
	Rear position:	<2W
	Rear direction indicator:	6W
	Reverse:	5W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1	

See page 319 for further information on HCS Technology and ISO 13207-1

COMBINATION LAMP FUNCTIONS

Stop	Rear position	Rear direction indicator	Reverse

LED Stop/Rear Position/Rear Direction Indicator/Reversing Lamp with Retro Reflector

LED combination lamp with 64cm² red retro reflector. Modern clear lens design with black mounting base. Features HCS Technology with ISO 13207-1 compliance. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Direction indicator optic appears clear until illuminated.



P/N 2391



Part Numbers	2392L	LEFT HAND SIDE
	2392R	RIGHT HAND SIDE
Mounting	Two bolt surface mount with mounting accessories supplied. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop:	5W
	Rear position/Licence plate:	<2W
	Rear direction indicator:	6W
	Reverse:	5W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 47/00 ADR 48/00 ADR 49/00 ISO 13207-1	

See page 319 for further information on HCS Technology and ISO 13207-1

COMBINATION LAMP FUNCTIONS

Stop	Rear position	Rear direction indicator	Reverse	Licence plate

LED Stop/Rear Position/Rear Direction Indicator/Reversing Lamp with Retro Reflector and Licence Plate Function

LED combination lamp with 64cm² red retro reflector and licence plate function. Modern clear lens design with black mounting base. Features HCS Technology with ISO 13207-1 compliance. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Direction indicator optic appears clear until illuminated.



P/N 2392L

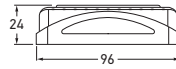
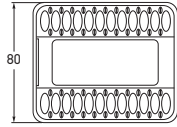
LED Stop/Rear Position /Rear Direction Indicator Lamp

LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Convenient mounting base with multiple fixing points allow easy fitment to most trailers/vehicles. The lamp is fully sealed against dust and moisture ingress. Optic appears clear until illuminated.



P/N 9.2394.09
Mounting spacer
(not included)

P/N 2394



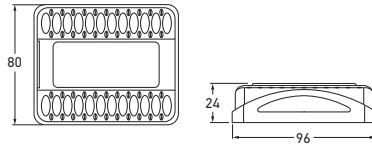
Part Numbers	2394			
	2394BULK	PACK OF 18		
	2394-6M			
	2394-6MBULK	PACK OF 10		
	2394-9MBULK	PACK OF 12		
Mounting	Surface mount with choice of mounting holes. Lamp clips into mounting base. Suitable for horizontal or vertical mounting.			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.			
Power Consumption	Stop:	2W		
	Rear position:	1W		
	Rear direction indicator:	2W		
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	2394	Pre-wired with 0.5m of sheathed multi-core cable.		
	2394-6M	Pre-wired with 6m of sheathed multi-core cable.		
	2394-9M	Pre-wired with 9m of sheathed multi-core cable.		
Spare Parts	9.2394.08	Mounting base		
	9.2394.09	Mounting spacer (not included)		
Lens Material	Grilamid®			
Compliance	ADR 6/00: Cat 2a E24 5860	ADR 47/00 ECE R6/01	ADR 49/00 ECE R7/02	ECE R3/02

TRAILER LAMP FUNCTIONS

Stop	Rear direction indicator	Rear position



MARKER AND SIGNAL LAMPS



Part Numbers	2395	
	2395BULK	PACK OF 18
	2395-6M	
	2395-6MBULK	PACK OF 10
	2395-9MBULK	PACK OF 12
Mounting	Surface mount with choice of mounting holes. Lamp clips into mounting base. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop:	2W
	Rear position/Licence plate:	1W
	Rear direction indicator:	2W
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2395	Pre-wired with 0.5m of sheathed multi-core cable.
	2395-6M	Pre-wired with 6m of sheathed multi-core cable.
	2395-9M	Pre-wired with 9m of sheathed multi-core cable.
Spare Parts	9.2394.08 9.2394.09	Mounting base Mounting spacer (not included)
Lens Material	Grilamid®	
Compliance	ADR 6/00: Cat 2a E24 5860	ADR 47/00 ECE R6/01
	ADR 48/00 ECE R7/02	ADR 49/00 ECE R3/02

**LED Stop/Rear Position/Rear
Direction Indicator Lamp
with Licence Plate Function**

LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector and licence plate function. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Convenient mounting base with multiple fixing points allow easy fitment to most trailers/vehicles. The lamp is fully sealed against dust and moisture ingress. Optic appears clear until illuminated.



P/N 9.2394.09
Mounting spacer
(not included)

P/N 2395

TRAILER LAMP FUNCTIONS



Stop

Rear direction
indicator

Rear position/
Licence plate



Part Number	2395-TP
Lens Material	Grilamid®
Kit Contents	Each Trailer Lamp Kit contains: 1 x 2394 Stop/rear position/rear direction indicator lamp with reflex reflector. 1 x 2395 Stop/rear position/rear direction indicator/licence plate lamp function with reflex reflector. 8 x Connectors (P/N 8231S) Crimp connectors with heat shrink insulation.

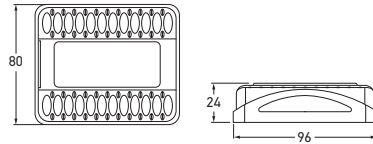
LED Combination Lamp Trailer Kit

LED Trailer Lamp incorporating a modern clear lens design with an 18cm² red retro reflector. The optic in the lamp appears clear until illuminated.



LED Stop/Rear Position /Rear Direction Indicator Lamp – 12V

LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Convenient mounting base with multiple fixing points allow easy fitment to most trailers/vehicles. The lamp is fully sealed against dust and moisture ingress. Optic appears clear until illuminated.



Part Number	2394-12V			
Mounting	Surface mount with choice of mounting holes. Lamp clips into mounting base. Suitable for horizontal or vertical mounting.			
Voltage	12V DC			
Power Consumption	Stop:	2W		
	Rear position:	1W		
	Rear direction indicator:	2W		
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.			
Spare Parts	9.2394.08	Mounting base		
	9.2394.09	Mounting spacer (not included)		
Lens Material	Acrylic			
Compliance	ADR 6/00: Cat 2a E24 5860	ADR 47/00 ECE R6/01	ADR 49/00 ECE R7/02	ECE R3/02



P/N 9.2394.09
Mounting spacer
(not included)

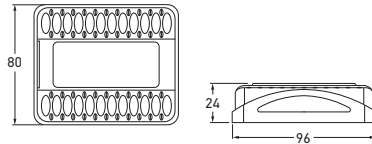
P/N 2394-12V

TRAILER LAMP FUNCTIONS

Stop	Rear direction indicator	Rear position



MARKER AND SIGNAL LAMPS



Part Number	2395-12V				
Mounting	Surface mount with choice of mounting holes. Lamp clips into mounting base. Suitable for horizontal or vertical mounting.				
Voltage	12V DC				
Power Consumption	Stop:	2W			
	Rear position/Licence plate:	1W			
	Rear direction indicator:	2W			
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)				
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.				
Spare Parts	9.2394.08	Mounting base			
	9.2394.09	Mounting spacer (not included)			
Lens Material	Acrylic				
Compliance	ADR 6/00: Cat 2a E24 5860	ADR 47/00 ECE R6/01	ADR 48/00 ECE R7/02	ADR 49/00 ECE R3/02	ECE R4/00

**LED Stop/Rear Position/Rear
Direction Indicator Lamp
with Licence Plate Function – 12V**

LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector and licence plate function. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Convenient mounting base with multiple fixing points allow easy fitment to most trailers/vehicles. The lamp is fully sealed against dust and moisture ingress. Optic appears clear until illuminated.



TRAILER LAMP FUNCTIONS		
Stop	Rear direction indicator	Rear position/ Licence plate

P/N 9.2394.09 Mounting spacer (not included)	P/N 2395-12V



Part Numbers	2395-TP12V	
	2395-TP9M12V	9M CABLE
Lens Material	Acrylic	
Kit Contents	Each trailer lamp kit contains:	
	1 x 2394-12V	Stop/rear position/rear direction indicator lamp with reflex reflector.
	1 x 2395-12V	Stop/rear position/rear direction indicator/licence plate lamp function with reflex reflector.
	8 x Connectors (P/N 8231S)	Crimp connectors with heat shrink insulation.

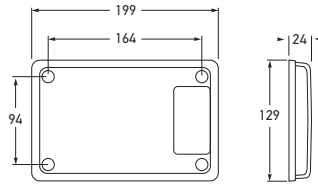
LED Combination Lamp Trailer Kit

LED Trailer Lamp incorporating a modern clear lens design with an 18cm² red retro reflector. The optic in the lamp appears clear until illuminated.



Jumbo-S LED Stop /Rear Position Lamp

Jumbo-S LED stop, rear position lamp with inbuilt 23cm² red retro reflector, featuring Enhanced Definition Technology (EDT) for the stop signal function. New low profile design allows surface mounting with gasket accessory (P/N 9.2361.08).



Part Numbers	2361	
	2361BL	BLISTER PACK
Mounting	Retrofit to update existing Jumbo or Designline lamps. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop: 5W Rear position: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 47/00 ADR 49/00	

See page 97 for Jumbo-S accessories.

Jumbo-S LED Rear Direction Indicator Lamp

Jumbo-S LED rear direction indicator lamp with inbuilt 23cm² red retro reflector. New low profile design allows surface mounting with gasket accessory (P/N 9.2361.08). Features HCS Technology with ISO 13207-1 compliance.



Part Numbers	2161	
	2161BL	BLISTER PACK
	2161-CS	HCS TECHNOLOGY
Mounting	Retrofit to update existing Jumbo or Designline lamps. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	6W	
Protection	As per P/N 2361.	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 2a ADR 47/00 ISO 13207-1 (2161-CS only)	

See page 319 for further information on HCS Technology and ISO 13207-1

Jumbo-S LED Reversing Lamp

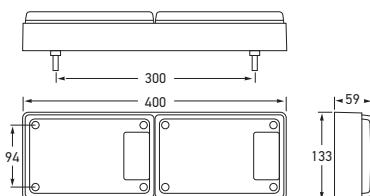
Jumbo-S LED reversing lamp with inbuilt 23cm² red retro reflector. New low profile design allows surface mounting with gasket accessory (P/N 9.2361.08).



Part Numbers	1461	
	1461BL	BLISTER PACK
Mounting	Retrofit to update existing Jumbo or Designline lamps. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	4W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 1/00 ADR 47/00	

Reversing lamps are not designed for continuous operation.

MARKER AND SIGNAL LAMPS

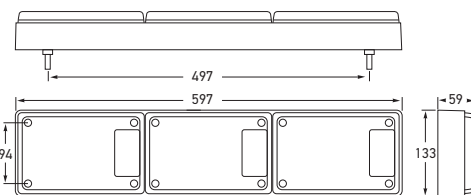
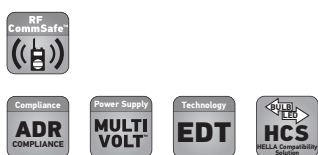


Part Numbers	2429	
	2429-CS	HCS TECHNOLOGY
Mounting	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop:	5W
	Rear position:	1W
	Rear direction indicator:	6W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1 (2429-CS only)	

See page 97 for Jumbo-S and Designline accessories.

Jumbo-S LED Double Module Stop/Rear Position/Rear Direction Indicator Lamp

Jumbo-S LED stop, rear position, rear direction indicator lamp with 23cm² red retro reflectors. Lamps are pre-assembled and wired into housing for easy installation. Features HCS Technology with ISO 13207-1 compliance. (See page 319 for further information on HCS Technology and ISO 13207-1).



Part Numbers	2430	
	2430-CS	HCS TECHNOLOGY
Mounting	As per P/N 2429-CS.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop:	5W x 2
	Rear position:	1W x 2
	Rear direction indicator:	6W
Protection	As per P/N 2429-CS.	
Cable Length	Pre-wired with 2m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1 (2430-CS only)	

Jumbo-S LED Triple Module Stop/Rear Position/Rear Direction Indicator Lamp

Jumbo-S LED stop, rear position, rear direction indicator lamp with 23cm² red retro reflectors. Lamps are pre-assembled and wired into housing for easy installation. Features HCS Technology with ISO 13207-1 compliance. (See page 319 for further information on HCS Technology and ISO 13207-1).



Part Numbers	2431	
	2431-CS	HCS TECHNOLOGY
Mounting	As per P/N 2429-CS.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop	5W
	Rear position:	1W
	Rear direction indicator:	6W
	Reversing:	4W
Protection	As per P/N 2429-CS.	
Cable Length	Pre-wired with 2m of sheathed multi-core cable.	
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1 (2431-CS only)	

Jumbo-S LED Triple Module Stop/Rear Position/Rear Direction Indicator/Reversing Lamp

Jumbo-S LED stop, rear position, rear direction indicator and reversing lamp with 23cm² red retro reflectors. Lamps are pre-assembled and wired into housing for easy installation. Features HCS Technology with ISO 13207-1 compliance. (See page 319 for further information on HCS Technology and ISO 13207-1).

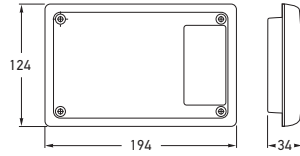


Jumbo LED Module Stop /Rear Position Lamp with Red Retro Reflector

Jumbo LED Multivolt™ module designed to update existing Jumbo or Designline lamps with Enhanced Definition Technology (EDT). Reflector area 33cm².



P/N 2317BL



Part Numbers	2317	
	2317BL	BLISTER PACK
Mounting	Four point recess mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W Rear position: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 47/00	ADR 49/00
See page 97 for Designline accessories.		

Jumbo LED Module Rear Direction Indicator Lamp with Red Retro Reflector

Jumbo LED Multivolt™ module designed to update existing Jumbo or Designline lamps. Reflector area 33cm².

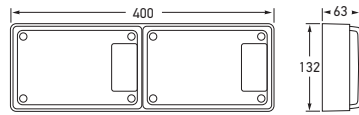


P/N 2138BL



Part Numbers	2138	
	2138BL	PACK
Mounting	Four point recess mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	9W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 2a	ADR 47/00

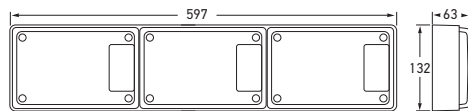
MARKER AND SIGNAL LAMPS



Jumbo LED Double Module Stop /Rear Position/Rear Direction Indicator Lamp

LED Stop/Rear Position/Rear Direction Indicator Lamp with inbuilt retro reflector.

Part Number	2422LED
Mounting	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.
Voltage	Multivolt™ for optimum brightness in 9 and 33 volt systems.
Power Consumption	Stop: 6W Rear position: 1W Rear direction indicator: 6W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.
Compliance	ADR 6/00: Cat 2a ADR 47/00 ADR 49/00



Jumbo LED Triple Module Stop /Rear Position/Rear Direction Indicator Lamp

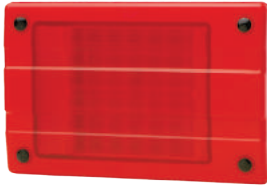
LED Stop/Rear Position/Rear Direction Indicator Lamp with inbuilt retro reflector.

Part Number	2416LED
Mounting	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.
Voltage	Multivolt™ for optimum brightness in 9 and 33 volt systems.
Power Consumption	Stop: 6W x 2 Rear position: 1W x 2 Rear direction indicator: 6W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.
Compliance	ADR 6/00: Cat 2a ADR 47/00 ADR 49/00

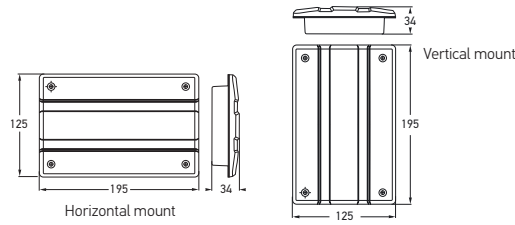


Designline LED Module Stop /Rear Position Lamp

Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



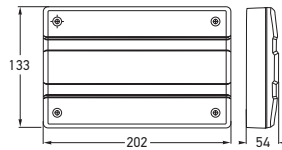
P/N 2332-H24BL



Part Numbers	2332-H24	HORIZONTAL
	2332-H24BL (Blister Pack)	HORIZONTAL
	2332-V24	VERTICAL
Mounting	Four point recess mount.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W Rear position: 2W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 49/00	
See page 97 for Designline accessories.		

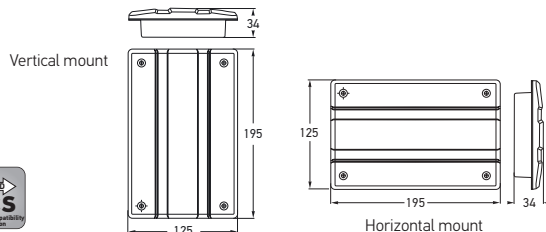
Designline LED Module Stop /Rear Position Lamp

Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



Part Number	2320LED-H	HORIZONTAL
Mounting	Four point recess mount.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W Rear position: 2W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 49/00	
See page 97 for Designline accessories.		

MARKER AND SIGNAL LAMPS



Part Numbers	2146-H24	HORIZONTAL
	2146-H24BL (Blister Pack)	HORIZONTAL
	2146-HCS (Incorporates HCS Technology)	HORIZONTAL
	2146-V24	VERTICAL
	2146-VCS (Incorporates HCS Technology)	VERTICAL

Mounting	Four point recess mount.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	P/Ns 2146-H24/2146-V24: 6W P/Ns 2146-HCS/2146-VCS: 4W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).
Cable Length	Pre-wired with 200mm of cable.
Compliance	ADR 6/00: Cat 2a ISO 13207-1 (2146-HCS or 2146-VCS only)

See page 319 for further information on HCS Technology and ISO 13207-1

Designline LED Module Rear Direction Indicator Lamp

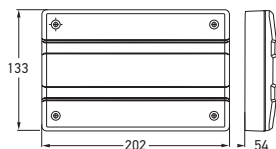
Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



P/N 2146-H24BL

Designline LED Module Rear Direction Indicator Lamp

Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.

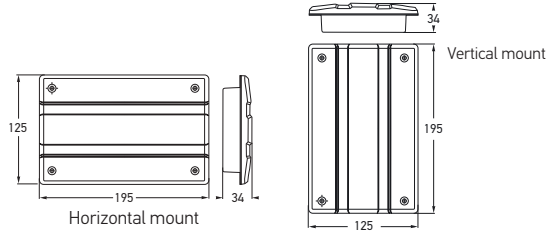


Part Number	2144LED-H	HORIZONTAL
Mounting	Four point surface mount.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	6W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 2a	



Designline LED Module Reversing Lamp

Designline LED Multivolt™ module designed to update existing Designline lamps. The high performance module features 36 High Efficacy LEDs that more than triples the raw lumen output over the standard module. High precision optics ensure ADR compliance by focusing the majority of light down ensuring wide illumination and improved safety when reversing.

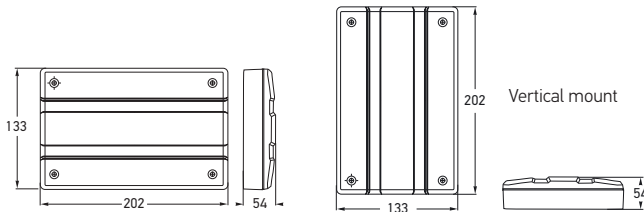


Part Numbers	1446-H	HORIZONTAL
	1447L (High performance - Left hand side)	
	1447R (High performance - Right hand side)	
	1446-V	VERTICAL
Mounting	Four point recess mount.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	P/Ns 1446-H/1446-V: 4W P/Ns 1447L/1447R: 7W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 1/00	

Reversing lamps are not designed for continuous operation.

Designline LED Module Reversing Lamp

Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps.

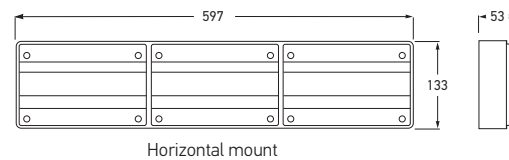


Part Numbers	2041LED-H	HORIZONTAL
	2041LED-V	VERTICAL
Mounting	Four point surface mount.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 250mm of cable.	
Compliance	ADR 1/00	

Reversing lamps are not designed for continuous operation.

Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator/Reversing Lamp

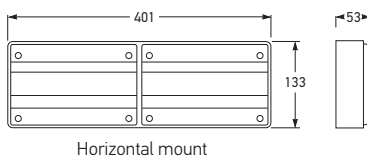
LED Stop/Rear Position/Rear Direction Indicator/Reversing Lamp featuring EDT (Enhanced Definition Technology) for the stop signal function and unique UWVO (Ultra Wide Visibility Optics) for significantly improved side visibility.



Part Numbers	2424LED-H	HORIZONTAL
	2424LED-V	VERTICAL
Mounting	Surface mount with mounting bolts supplied.	
Voltage	Multivolt™ for optimum brightness in 9 and 33 volt systems.	
Power Consumption	Stop 6W Rear position: 2W	Rear direction indicator: 6W Reverse: 21W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.	
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 47/00 ADR 49/00	

The reversing lamp is a standard globe unit and must have correct 12V globe (included) or 24V globe fitted.

MARKER AND SIGNAL LAMPS



Horizontal mount

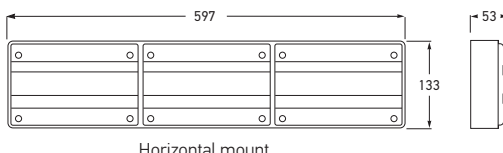
Designline LED Double Module Stop/Rear Position/Rear Direction Indicator Lamp

Double Designline LED module pre-assembled and wired for easy installation. Features a 2m wiring loom and encapsulated bolts so lamp does not have to be disassembled to mount. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



Part Numbers	2426-H	HORIZONTAL
	2426-V	VERTICAL
Mounting	Two bolt surface mount.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W	
	Rear position: 2W	
	Rear direction indicator: 6W	
Cable Length	Pre-wired with 2m of multi-core cable.	
Spare Part	9.2422.09	Double housing
Compliance	ADR 6/00: Cat 2a	ADR 49/00

See page 97 for Designline accessories.



Horizontal mount

Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator Lamp

Triple Designline LED module pre-assembled and wired for easy installation. Features a 2m wiring loom and encapsulated bolts so lamp does not have to be disassembled to mount. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



Part Numbers	2427-H	HORIZONTAL
	2427-V	VERTICAL
Mounting	Two bolt surface mount.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W x2	
	Rear position: 2W x 2	
	Rear direction indicator: 6W	
Cable Length	Pre-wired with 2m of multi-core cable.	
Spare Part	9.2423.09	Triple housing
Compliance	ADR 6/00: Cat 2a	ADR 49/00



Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator/Reversing Lamp



Part Numbers	2428-H	HORIZONTAL
	2428-V	VERTICAL
Mounting	Two bolt surface mount.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W	
	Rear position: 2W	
	Rear direction indicator: 6W	
	Reverse: 4W	
Cable Length	Pre-wired with 2m of multi-core cable.	
Spare Part	9.2423.09	Triple housing
Compliance	ADR 1/00	ADR 6/00: Cat 2a ADR 49/00

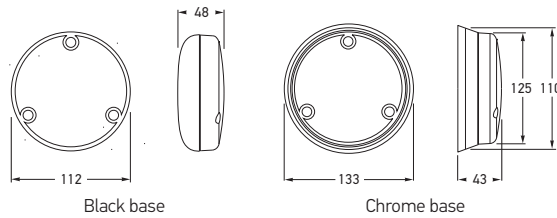
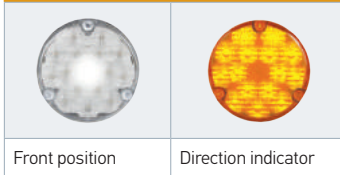
Reversing lamps are not designed for continuous operation.

110mm Round LED Front Position /Front Direction Indicator Lamp – Clear Lens

LED front direction indicator and front position lamp specifically designed for commercial transport, buses, caravans and trailers. Direction indicator optic appears clear until illuminated.



LAMP FUNCTIONS



Part Numbers	2132-CS (Incorporates HCS Technology)	CHROME BASE
	2131-CS (Incorporates HCS Technology)	BLACK BASE
	2106-CS (Incorporates HCS Technology)	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Front position: <1W Front direction indicator: 3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 1 ECE R7/02	ADR 49/00 E24 5851 ECE R6/01 ISO 13207-1

See page 97 for 110mm Round LED lamp accessories.
See page 319 for further information on HCS Technology and ISO 13207-1

110mm Round LED Front Direction Indicator Lamp – Clear Lens

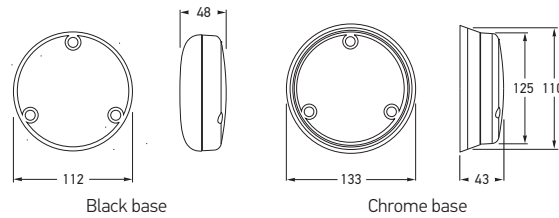
LED front direction indicator specifically designed for trucks, buses and motor homes. Optic appears clear until illuminated.



Part Numbers	2136LEDCLR	CHROME BASE
	2136LEDCLR-CS (Incorporates HCS Technology)	
	2135LEDCLR	BLACK BASE
	2135LEDCLR-CS (Incorporates HCS Technology)	
	2105CLR	MODULE
	2105CLR-CS (Incorporates HCS Technology)	
Mounting	Mount only with lens engraving "TOP" located correctly.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	P/Ns 2136LEDCLR/2135LEDCLR/2105CLR: 4W P/Ns 2136LEDCLR-CS/2135LEDCLR-CS/2105CLR-CS: 3W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 1 ISO 13207-1 (2136LEDCLR-CS/2135LEDCLR-CS/2105CLR-CS only)	

See page 319 for further information on HCS Technology and ISO 13207-1

MARKER AND SIGNAL LAMPS



110mm Round LED Front Direction Indicator Lamp – Amber Lens

LED front direction indicator specifically designed for trucks, buses and motor homes.

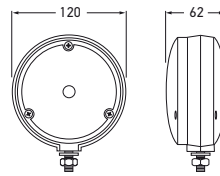


Part Numbers	2136LED	CHROME BASE
	2136LED-CS (Incorporates HCS Technology)	
	2135LED	BLACK BASE
	2135LED-CS (Incorporates HCS Technology)	
	2105	MODULE
	2105-CS (Incorporates HCS Technology)	

Mounting	Mount only with lens engraving "TOP" located correctly.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	P/Ns 2136LED/2135LED/2105: 4W P/Ns 2136LED-CS/2135LED-CS/2105-CS: 3W
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 200mm of cable.
Compliance	ADR 6/00: Cat 1 ISO 13207-1 (2136LED-CS/2135LED-CS/2105-CS only)



See page 319 for further information on HCS Technology and ISO 13207-1

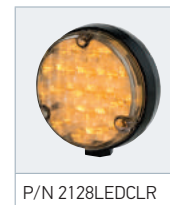


LED Front Direction Indicator Lamp (Cat. 1)

Single-sided LED front direction indicator fitted with high-intensity LED insert and black housing. Fully sealed to withstand high-pressure washing.



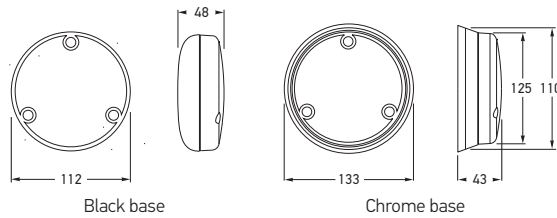
Part Numbers	2128LED	AMBER LENS
	2128LEDCLR	CLEAR LENS
Mounting	Single bolt mount.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	4W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Spare Parts	2.6702.03	Backing plate
Compliance	ADR 6/00: Cat 1	



P/N 2128LEDCLR

110mm Round LED Stop /Rear Position Lamp

110mm round LED stop, rear position lamp specifically designed for commercial transport, buses, caravans and trailers. Features low power consumption and impact resistant acrylic lens.



Part Numbers	2359	CHROME BASE
	2367	BLACK BASE
	2365	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 3W Rear position: 1W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 49/00	

See page 97 for 110mm Round LED lamp accessories.

110mm Round LED Rear Direction Indicator Lamp



Part Numbers	2159	CHROME BASE
	2159-CS (Incorporates HCS Technology)	
	2167	BLACK BASE
	2167-CS (Incorporates HCS Technology)	
	2165	MODULE
2165-CS (Incorporates HCS Technology)		
Mounting	Mount only with lens engraving "TOP" located correctly.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	3W	
Protection	As per P/N 2359.	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 2a	

See page 319 for further information on HCS Technology and ISO 13207-1

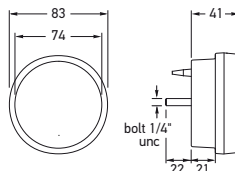
110mm Round LED Reversing Lamp



Part Numbers	1459	CHROME BASE
	1467	BLACK BASE
	1465	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	5W	
Protection	As per P/N 2359.	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 1/00	

Reversing lamps are not designed for continuous operation.

MARKER AND SIGNAL LAMPS



83mm Round LED Safety DayLights™/Front Position /Front Direction Indicator Lamp

This LED combination lamp features an integrated Safety DayLight™, front position indicator and front position function. The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a Safety DayLight™. This lamp eliminates the need for installation of multiple lamps.

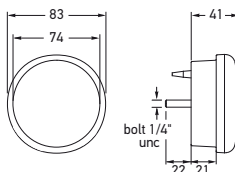
Part Numbers	2108-GMD	12 VOLT DC		
	2108-GMD24V	24 VOLT DC		
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.			
Power Consumption		P/N 2108-GMD	P/N 2108-GMD24V	
	Safety DayLights™:	4W	4W	
	Front position:	1W	1W	
	Front direction indicator:	3W	4W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.			
Lens Material	Grilamid®			
Compliance	ADR 6/00: Cat 1	ADR 49/00	ADR 76/00	ECE R87/00
	E24 5854	ECE R6/01	ECE R7/02	

See page 97 for mounting accessories.



83MM LAMP FUNCTIONS

LED Safety DayLights™	Front position	Front direction indicator



83mm Round LED Front Direction Indicator Lamp

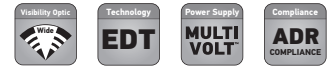
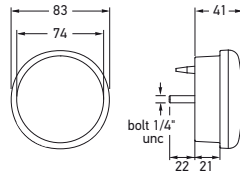
Compact, low profile LED front direction indicator fitted with amber polycarbonate lens. Fully sealed to withstand high-pressure washing.

Part Number	2107	PACK OF 2
	2107BULK	PACK OF 10
	2107CLR (Clear lens)	PACK OF 2
	2107CLRBULK (Clear lens)	PACK OF 10
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 1	



83mm Round LED Stop /Rear Position Lamp

83mm diameter LED stop, rear position lamp with single bolt mount, featuring Enhanced Definition Technology (EDT). Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



P/N 2390 Rear position P/N 2390BL

Part Numbers	2390	PACK OF 2
	2390BL	BLISTER PACK
	2390BULK	PACK OF 10
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 3W Rear position: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 49/00 E4 11391 ECE R7/02	

See page 97 for mounting accessories.

83mm Round LED Rear Direction Indicator Lamp

83mm diameter LED rear direction indicator lamp with single bolt mount. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



P/N 2130BL

Part Numbers	2130	PACK OF 2
	2130BL	BLISTER PACK
	2130BULK	PACK OF 10
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	2W	
Protection	As per P/N 2390.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a E4 11391 ECE R6/01	

Contact HELLA for 24 volt HCS version.

83mm Round LED Reversing Lamp

83mm diameter LED reversing lamp with single bolt mount.

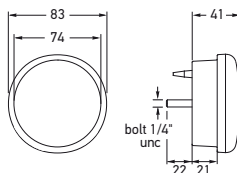


P/N 1490BL

Part Numbers	1490	PACK OF 2
	1490BL	BLISTER PACK
Mounting	Flush Mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	4W	
Protection	As per P/N 2390.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 1/00 E4 11391 ECE R23/00	

Reversing lamps are not designed for continuous operation.

MARKER AND SIGNAL LAMPS



83mm Round LED Stop/
Rear Position/Rear Direction
Indicator Lamp

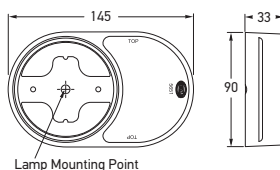
83mm diameter LED stop, rear position and rear direction indicator lamp with single bolt mount.

Part Numbers	2399	PACK OF 2
	2399BL	BLISTER PACK
	2399BULK	PACK OF 10
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop: 3W Rear position: 1W Rear direction indicator: 3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Bulk pack pre-wired with 6m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a E9 1538	ADR 49/00 ECE R6/01 ECE R7/02



P/N 2399BL

Contact HELLA for 24 volt HCS version. See page 97 for mounting accessories.



Red Retro Reflector Base

Red retro reflector to suit 83mm round lamps.
Reflector area 31.7cm².

Part Numbers	2934-H	HORIZONTAL
	2934-V	VERTICAL
Mounting	Utilises bolt mount from 83mm round lamps.	
Compliance	ADR 47/00	



LED Lighting Trailer
Conversion Kit

A complete Fit and Forget solution for small trailers.

Part Number	2399-TP
Kit Contents	Each trailer lamp kit contains: 2 x 2399 Combination stop/rear position and rear direction indicator lamp with 6m cable 2 x 2934H Red retro reflector base – horizontal mount 1 x 2559 LED licence plate lamp 1 x 4921 7 pole flat plug

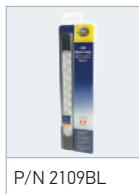


LED Front Direction Indicator Lamp – Surface Mount

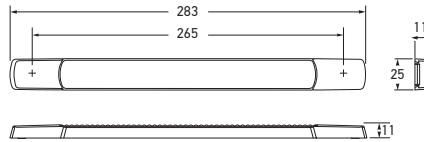
Surface mount LED front direction indicator lamp that is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Ultra slim height of only 11mm. Lamp shown active.



P/N 2109BL



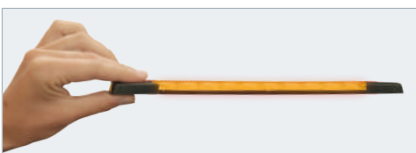
Part Numbers	2109 (Horizontal Mount)	12 VOLT DC
	2109BL (Blister Pack - Horizontal Mount)	
	2109-24V (Horizontal Mount)	24 VOLT DC
	2109-24VBL (Blister Pack - Horizontal Mount)	
	2109V (Vertical Mount)	12 VOLT DC
	2109VBL (Blister Pack - Vertical Mount)	
	2109V-24V (Vertical Mount)	24 VOLT DC
	2109V-24VBL (Blister Pack - Vertical Mount)	

Power Consumption	3W
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs with 0.5m cable)
Lens Material	Grilamid®
Compliance	ADR 6/00: Cat 1 Horizontal E24 5869 Vertical E24 5890 ECE R6/01

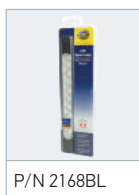
See page 98 for surface mount strip lamp screw caps.

LED Rear Direction Indicator Lamp – Surface Mount

Surface mount LED rear direction indicator lamp that is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Ultra slim height of only 11mm. Lamp shown active.



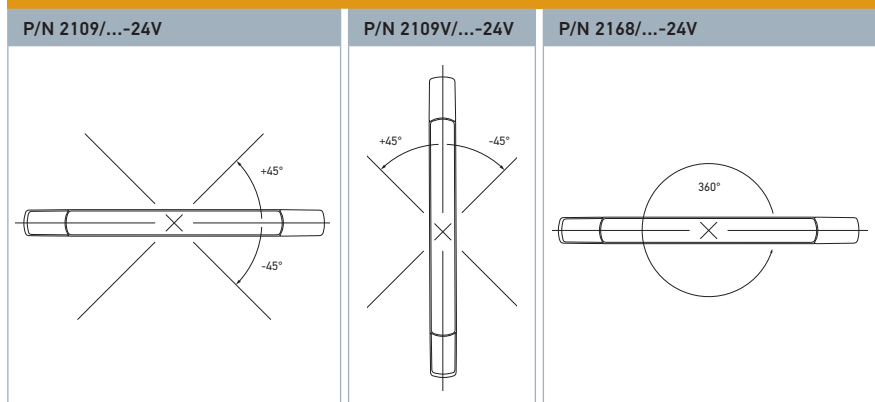
P/N 2168BL



Part Numbers	2168	12 VOLT DC
	2168BL (Blister Pack)	
	2168-24V	24 VOLT DC
	2168-24VBL (Blister Pack)	

Mounting	Suitable for horizontal and vertical mounting.
Power Consumption	3W
Protection	As per P/N 2109
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs with 0.5m cable)
Lens Material	Grilamid®
Compliance	ADR 6/00: Cat 2a E24 5891 ECE R6/01

MOUNTING DIAGRAMS

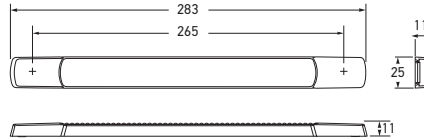


Horizontal mount: +/- 45° rotation around lamp (and vehicle) axis

Vertical mount: +/- 45° rotation around lamp (and vehicle) axis

Horizontal mount & Vertical mount: 360° rotation around lamp (and vehicle) axis

MARKER AND SIGNAL LAMPS



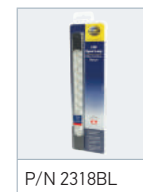
Part Numbers	2318	12 VOLT DC
	2318BL (Blister Pack)	
	2318-24V	24 VOLT DC
	2318-24VBL (Blister Pack)	

Mounting	Suitable for horizontal and vertical mounting.
Power Consumption	Stop: 3W Rear Position: <0.5W
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	Pre-wired with 0.3m cable.
Lens Material	Grilamid®
Compliance	ADR 49/00

STOP / REAR POSITION LAMP FUNCTIONS	
Stop	Rear position

LED Stop/Rear Position Lamp – Surface Mount

Surface mount LED stop/rear position lamp that features Enhanced Definition Technology (EDT) and is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



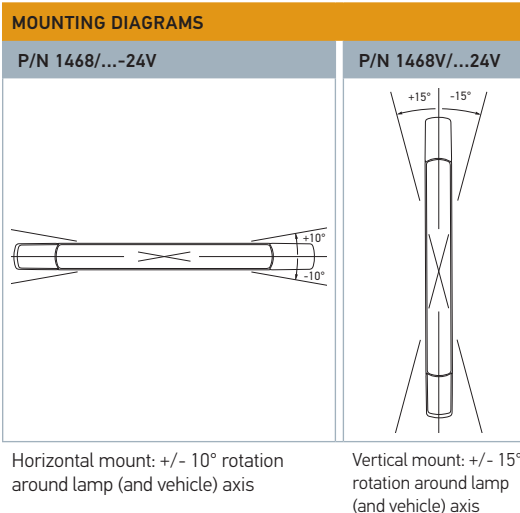
Part Numbers	1468 (Horizontal Mount)	12 VOLT DC
	1468BL (Blister Pack - Horizontal Mount)	
	1468-24V (Horizontal Mount)	24 VOLT DC
	1468-24VBL (Blister Pack - Horizontal Mount)	
	1468V (Vertical Mount)	12 VOLT DC
	1468V-24V (Vertical Mount)	24 VOLT DC

Power Consumption	3W
Protection	As per P/N 2318
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs with 0.5m cable)
Lens Material	Grilamid®
Compliance	Horizontal 0027 Vertical 0028 ECE R23/00

Reversing lamps are not designed for continuous operation.

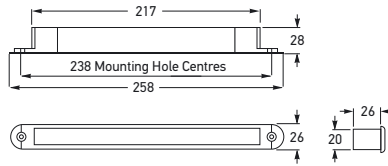
LED Reversing Lamp – Surface Mount

Surface mount LED reversing lamp. Featuring a low profile, ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



LED Stop/Rear Position Lamp

Red LED strip lamp suitable for coaches and buses, featuring Enhanced Definition Technology (EDT).



Part Numbers	2334	12 VOLT DC
	2334-24V	24 VOLT DC
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	Stop: 2W Rear position: 0.3W	
Protection	Reverse polarity protection.	
Cable Length	Pre-wired with 300mm of cable.	
Spare Part	9.5243.05	Gasket
Compliance	ADR 49/00	

LED Rear Direction Indicator Lamp

Amber LED strip lamp suitable for coaches and buses.



Part Numbers	2156	12 VOLT DC
	2156-24V	24 VOLT DC
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection.	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.	
Spare Part	9.5243.05	Gasket
Compliance	ADR 6/00: Cat 2a	

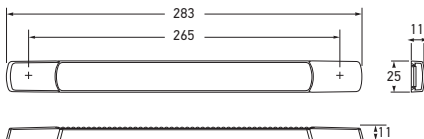
LED High Level Brake Lamp

Strip LED lamp designed for rear spoiler applications. Clear lens version optic appears clear until illuminated.



Part Number	5243	12 VOLT DC
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Spare Part	9.5243.05	Gasket
Compliance	ADR 49/00: Cat S3	02 7547 ECE R7/02

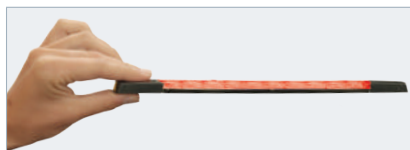
MARKER AND SIGNAL LAMPS



Part Numbers	5245	12 VOLT DC
	5245-24V	24 VOLT DC
Mounting	Suitable for horizontal or vertical mounting.	
Power Consumption	3W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Grilamid®	
Accessories	9.2652.09 9.1009.09 9.1009.10	White screw caps (Pack of 4) Charcoal screw caps (Pack of 4) Chrome plated screw caps (Pack of 4)
Compliance	ADR 49/00: Cat S3	E24 02 0087 ECE R7/02

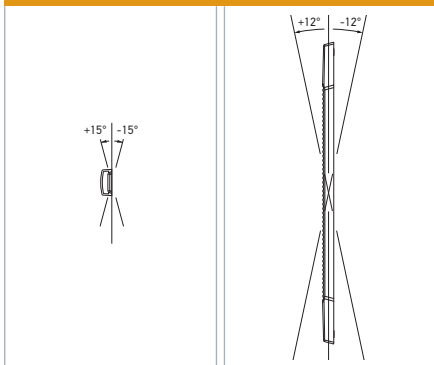
LED High Level Brake Lamp – Surface Mount

Surface mount LED high level brake lamp that is designed with an ultra wide visibility optic to suit a wide range of mounting positions and angles. Featuring a low profile, ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Ultra slim height of only 11mm. Lamp shown active.

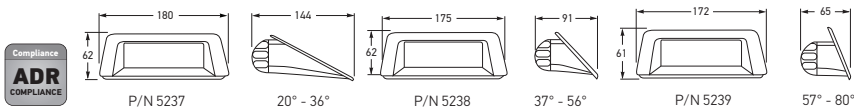
MOUNTING DIAGRAMS



Horizontal mount: +/- 15° tilt (up/down) Vertical mount: +/- 12° tilt (up/down)

LED High Level Brake Lamp

Designed for rear windows of angles from 20° (Coupe) to 80° (Wagon). Supplied with installation kit and instruction sheet. Optic appears clear until illuminated.



Part Numbers	5237 (Coupe)	20° - 36°	12 VOLT DC
	5238 (Sedan)	37° - 56°	
	5239 (Wagon)	57° - 80°	
Mounting	Adhesive mounting tape. Window angles for Coupe are 20° - 36°, Sedan 37° - 56° and Wagon 57° - 80°.		
Voltage	12V DC		
Power Consumption	3W		
Cable Length	Pre-wired with 2.5m of multi-core cable.		
Compliance	ADR 49/00: Cat S3		

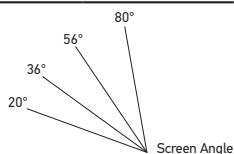


P/N 5237
Shown illuminated



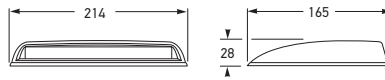
P/N 5238

P/N 5239



External Mount High Level Brake Lamp

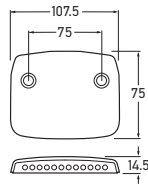
Designed to mount externally on boot lid. Die-cast metal housing with grey powder coat finish. May be painted to match vehicle.



Part Number	5242	12 VOLT
Mounting	External on boot lid.	
Globe to Suit	W1221	
Compliance	ADR 49/00: Cat S3	

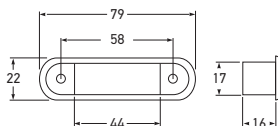
LED Lift Platform Rear Direction Indicator – Amber

Low-profile LED Rear Direction Indicator for mounting on lift and loading platforms. Features robust die-cast zinc housing and impact resistant polycarbonate lens for increased durability. Optic appears clear until illuminated in amber signal colour.



Part Numbers	2103-12V	12 VOLT DC
	2103-24V	24 VOLT DC
Mounting	Surface mount. M6 x 25mm mounting bolts included.	
Power Consumption	2.8W	
Protection	Sealed against dust and moisture to IP5K9K	
Cable Length	Pre-wired with 2.5m of cable.	
Compliance	ADR 6/00 Cat 2a	
To be used in conjunction with primary vehicle rear direction indicators.		

MARKER AND SIGNAL LAMPS

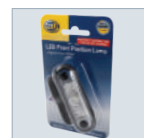


Part Numbers	2055	
	2055BULK	PACK OF 4
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 49/00	E4 0054 ECE R7/02

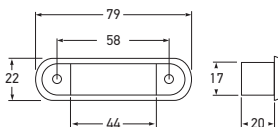
See page 98 for spare parts and accessories.

LED Flush Mount Front Position /End Outline Lamp

White front position or front end outline LED lamp (FEOL). Optic appears clear until illuminated.



P/N 2055

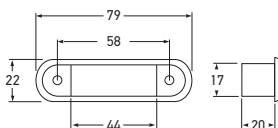
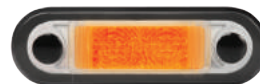


Part Numbers	2056	
	2056BULK	PACK OF 4
Mounting	Suitable for horizontal mounting.	
Compliance	ADR 49/00	

Other specifications as per P/N 2055. See page 98 for spare parts and accessories.

LED Flush Mount Front End Outline Lamp

Amber front end outline LED lamp (FEOL) for trailers only. Optic appears clear until illuminated.

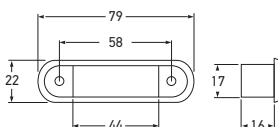
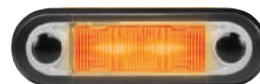


Part Numbers	2057	
	2057BULK	PACK OF 4
Mounting	Suitable for horizontal mounting.	
Compliance	ADR 45/01	

Other specifications as per P/N 2055. See page 98 for spare parts and accessories.

LED Flush Mount Cab Marker Lamp

Amber cab marker LED lamp. Optic appears clear until illuminated.



Part Numbers	2308	
	2308BULK	PACK OF 4
Compliance	ADR 49/00	E4 02 7597 ECE R7/02

Other specifications as per P/N 2055. See page 98 for spare parts and accessories.

LED Flush Mount Rear Position /End Outline Lamp

Red rear end outline lamp (REOL) or rear position LED lamp. Optic appears clear until illuminated.

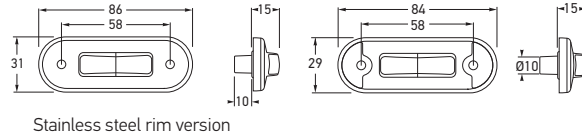


DuraLED® Flush Mount Side Marker Lamp

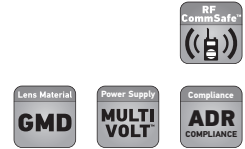
Red/amber surface mount side marker lamp. Featuring a low profile of only 15mm and an ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated. With optional stainless steel rim.



P/N 2083S



Stainless steel rim version



Part Numbers	2083	
	2083BULK (Pack of 16)	
	20830EBULK (Pack of 24)	
	2083S	
	2083SBULK (Pack of 16)	POLISHED STAINLESS STEEL RIM
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Parts	9.2310.09BULK 95968500	Black screw caps (Pack of 4) Stainless steel rim - Polished
Lens Material	Grilamid®	
Compliance	ADR 45/01	
See page 95 for DuraLED® marker lamp accessories.		

DuraLED® Flush Mount Front Position/End Outline Lamp

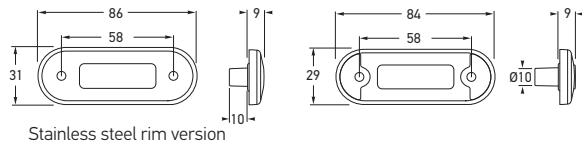
White surface mount front position or front end outline LED lamp (FEOL) with optional stainless steel rim. Featuring a low profile ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



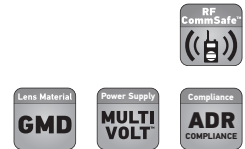
P/N 2059S



P/N 2059



Stainless steel rim version

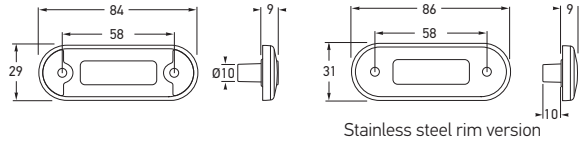
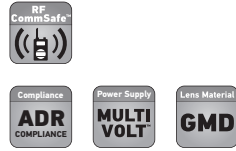


Part Numbers	2059	
	2059BULK (Pack of 16)	
	20590EBULK (Pack of 24)	
	2059S	
	2059SBULK (Pack of 16)	POLISHED STAINLESS STEEL RIM
Mounting	Surface mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Parts	9.2310.09BULK 95968500	Black screw caps (Pack of 4) Stainless steel rim - Polished
Lens Material	Grilamid®	
Compliance	ADR 49/00	
See page 95 for DuraLED® marker lamp accessories.		



Ultra slim design
Featuring a thickness of just 9mm

MARKER AND SIGNAL



MARKER & SIGNAL

DuraLED® Flush Mount Front End Outline Lamp

Amber surface mount front end outline LED lamp (FEOL) for trailers with optional stainless steel rim. Featuring a low profile ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.

Part Numbers	2060	
	2060BULK (Pack of 16)	
	2060S	POLISHED STAINLESS STEEL RIM
	2060SBULK (Pack of 16)	
Mounting	Surface mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Parts	9.2310.09BULK 95968500	Black screw caps (Pack of 4) Stainless steel rim - Polished
Lens Material	Grilamid®	
Compliance	ADR 49/00	

See page 95 for DuraLED® marker lamp accessories.



Ultra slim design
Featuring a thickness of just 9mm

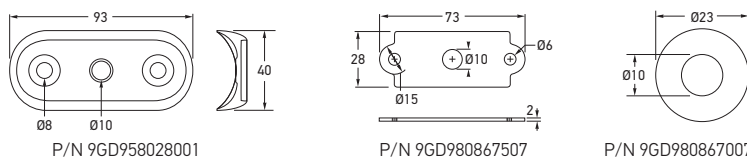
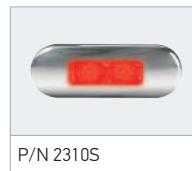
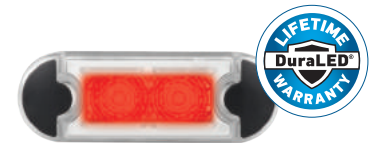


Part Numbers	2310	
	2310BULK (Pack of 16)	
	23100EBULK (Pack of 24)	
	2310S	POLISHED STAINLESS STEEL RIM
	2310SBULK (Pack of 16)	

Other specifications as per P/N 2060.

DuraLED® Flush Mount Rear Position/End Outline Lamp

Red surface mount rear position or rear end outline LED lamp (REOL) with optional stainless steel rim. Featuring a low profile ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



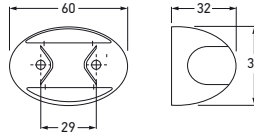
DuraLED® Flush Mount Gaskets

Part Numbers	9GD980867007	SEAL ROUND
	9GD980867507	SEAL RECTANGULAR
	9GD958028001	SEAL CURVED



DuraLED® Side Marker Lamp

Red/amber side marker LED lamp.
Optic appears clear until illuminated.



Part Numbers	2053	
	2053BULK	PACK OF 4
	20530EBULK	PACK OF 24
	2053CHROME	CHROME PLATED

Mounting	Surface mount.
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.
Power Consumption	<1W
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. P/N 2053BULK - Bulk pack pre-wired with 2.5m of sheathed multi-core cable.
Spare Part	9.2053.08 Black Nylon housing
Compliance	ADR 45/01

See page 95 for DuraLED® marker lamp accessories.

DuraLED® Side Marker Lamp
- Grilamid®

Red/amber ultra high impact resistant side marker LED lamp featuring Grilamid® lens and nylon housing. Optic appears clear until illuminated.



Part Numbers	2053GMD	
	2053GMDBULK	PACK OF 4
	2053GMD0EBULK	PACK OF 24

Mounting	Surface mount.
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.
Power Consumption	<1W
Protection	As per P/N 2053.
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. P/N 2053GMDBULK - Bulk pack pre-wired with 2.5m of sheathed multi-core cable.
Spare Part	9.2053.08 Black Nylon housing
Lens Material	Grilamid®
Compliance	ADR 45/01

DuraLED® Cab Marker/Supplementary
Side Direction Indicator Lamp (Cat. 5)

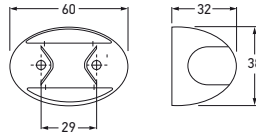
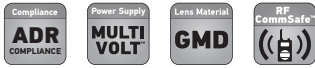
Amber cab marker or supplementary side indicator LED lamp. Optic appears clear until illuminated.



Part Numbers	2026	
	2026BULK (Pack of 4)	PACK OF 4

Mounting	Surface mount.
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.
Power Consumption	<1W
Protection	As per P/N 2053.
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.
Spare Part	9.2053.08 Black Nylon housing
Compliance	ADR 6/00: Cat 5 ADR 45/01

MARKER AND SIGNAL

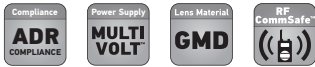


DuraLED® Front Position/
End Outline Lamp

White ultra high impact resistant front end outline (FEOL) or front position LED lamp featuring Grilamid® lens and nylon housing. Optic appears clear until illuminated.



Part Numbers	2054	
	2054BULK	PACK OF 4
	2054GMD (With Grilamid® Lens)	
	2054GMDBULK (With Grilamid® Lens)	PACK OF 4
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Part	9.2053.08	Black Nylon housing
Compliance	ADR 49/00	
See page 95 for DuraLED® marker lamp accessories.		



DuraLED® Front End Outline Lamp

Amber ultra high impact resistant front end outline (FEOL) LED lamp for trailers featuring Grilamid® lens and nylon housing. Optic appears clear until illuminated.



Part Numbers	2051	
	2051BULK	PACK OF 4
	2051GMD (With Grilamid® Lens)	
	2051GMDBULK (With Grilamid® Lens)	PACK OF 4
Other specifications as per P/N 2054.		



DuraLED® Rear Position
/End Outline Lamp

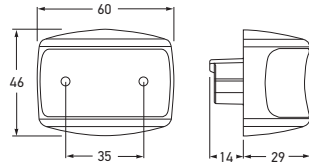
Red ultra high impact resistant rear end outline (REOL) or rear position LED lamp featuring Grilamid® lens and nylon housing. Optic appears clear until illuminated.



Part Numbers	2307	
	2307BULK	PACK OF 4
	2307GMD (With Grilamid® Lens)	
	2307GMDBULK (With Grilamid® Lens)	PACK OF 4
Other specifications as per P/N 2054.		

DuraLED® Heavy Duty Side Marker Lamp with DT Connector – Red/Amber

Heavy duty red/amber LED side marker lamp with DT connector and nylon housing. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Part Numbers	2073	
	2073BULK	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P 9.2073.09	2 pole DT plug, wedge and 2 contacts. Black Nylon housing
Lens Material	Grilamid®	
Compliance	ADR 45/01	



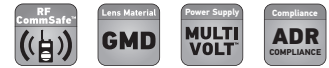
Rear view showing DT connector that allows application of self-adhesive heat shrink.



P/N 4960-P
Not included with lamp.

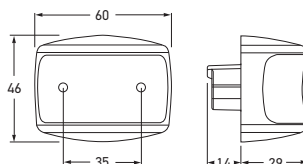
DuraLED® Heavy Duty Cab Marker /Supplementary Side Direction Indicator Lamp with DT Connector

Heavy duty amber LED cab marker or supplementary side direction indicator lamp with DT connector and nylon housing. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Part Numbers	2076	
	2076BULK	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P 9.2073.09	2 pole DT plug, wedge and 2 contacts. Black Nylon housing
Lens Material	Grilamid®	
Compliance	ADR 45/01	ADR 6/00: Cat 5

MARKER AND SIGNAL



Part Numbers	2074	
	2074BULK	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P 9.2073.09	2 pole DT plug, wedge and 2 contacts. Black Nylon housing
Lens Material	Grilamid®	
Compliance	ADR 49/00	

DuraLED® Heavy Duty Front Position /End Outline Lamp with DT Connector

Heavy duty white front position or end outline LED lamp (FEOL) with DT connector and nylon housing. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Part Numbers	2071	
	2071BULK	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P 9.2073.09	2 pole DT plug, wedge and 2 contacts. Black Nylon housing
Lens Material	Grilamid®	
Compliance	ADR 49/00	

DuraLED® Heavy Duty Front End Outline Lamp with DT Connector

Heavy duty amber front end outline LED lamp (FEOL) for trailers with DT connector and nylon housing. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Part Numbers	2312	
	2312BULK	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P 9.2073.09	2 pole DT plug, wedge and 2 contacts. Black Nylon housing
Lens Material	Grilamid®	
Compliance	ADR 49/00	

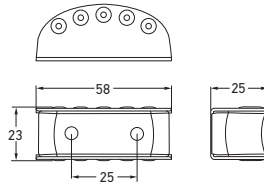
DuraLED® Heavy Duty Rear Position /End Outline Lamp with DT Connector

Heavy duty red rear position or end outline LED lamp (REOL) with DT connector and nylon housing. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



DuraLED® Heavy Duty Side Marker Lamp – Red/Amber

Heavy duty red/amber LED side marker lamp with stainless steel housing. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Part Numbers	2058	MATT FINISH
	2058BULK (Pack of 4)	
	2058P	POLISHED FINISH
	2058PBULK (Pack of 4)	

Mounting Surface mount.
Suitable for horizontal mounting.

Voltage Multivolt™ for optimum brightness in 12 and 24 volt systems.

Power Consumption <1W

Protection Reverse polarity protection.
Fully sealed against dust, high-pressure washing and temporary water immersion.

Cable Length Pre-wired with 0.5m of sheathed multi-core cable.
Bulk pack pre-wired with 2.5m of sheathed multi-core cable.

Lens Material Grilamid®

Compliance ADR 45/01

The industrial polishing process utilised on the housings may not always be 100% blemish free.



DuraLED® Heavy Duty Cab Marker /Supplementary Side Direction Indicator Lamp

Heavy duty LED cab marker or supplementary side direction indicator lamp with stainless steel housing. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Part Numbers	2027	MATT FINISH
	2027BULK (Pack of 4)	
	2027P	POLISHED FINISH
	2027PBULK (Pack of 4)	

Mounting Surface mount.
Suitable for horizontal mounting.

Voltage Multivolt™ for optimum brightness in 12 and 24 volt systems.

Power Consumption <1W

Protection Reverse polarity protection.
Fully sealed against dust, high-pressure washing and temporary water immersion.

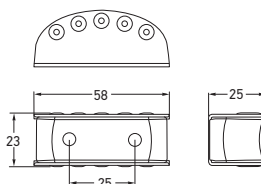
Cable Length Pre-wired with 0.5m of sheathed multi-core cable.
Bulk pack pre-wired with 2.5m of sheathed multi-core cable.

Lens Material Grilamid®

Compliance ADR 45/01 ADR 6/00: Cat 5

The industrial polishing process utilised on the housings may not always be 100% blemish free.

MARKER AND SIGNAL



Part Numbers	2061	➔	MATT FINISH
	2061BULK (Pack of 4)		
	2061P	➔	POLISHED FINISH
	2061PBULK (Pack of 4)		
Mounting	Surface mount. Suitable for horizontal mounting.		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Power Consumption	<1W		
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Grilamid®		
Compliance	ADR 49/00		
The industrial polishing process utilised on the housings may not always be 100% blemish free.			

DuraLED® Heavy Duty Front Position/End Outline Lamp

Heavy duty white front position/end outline LED lamp (FEOL) with stainless steel housing. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



DuraLED® Heavy Duty Front End Outline Lamp

Heavy duty amber front end outline LED lamp (FEOL) for trailers with stainless steel housing. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Part Numbers	2062	➔	MATT FINISH
	2062BULK (Pack of 4)		
	2062P	➔	POLISHED FINISH
	2062PBULK (Pack of 4)		

Other specifications as per P/N 2061.

DuraLED® Heavy Duty Rear Position/End Outline Lamp

Heavy duty red rear position/end outline LED lamp (REOL) with stainless steel housing. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.

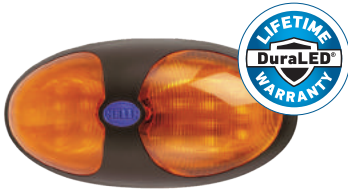
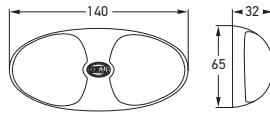


Part Numbers	2311	➔	MATT FINISH
	2311BULK (Pack of 4)		
	2311P	➔	POLISHED FINISH
	2311PBULK (Pack of 4)		

Other specifications as per P/N 2061.

DuraLED® Supplementary Side Direction Indicator Lamp (Cat. 5)

LED supplementary side direction indicator featuring amber impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility. See page 87 for function category details.



P/N 2031BL

Part Numbers	2031	
	2031BL	BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Projected Luminous Area	51cm ²	
Lens Material	Polycarbonate.	
Compliance	ADR 6/00: Cat 5	

DuraLED® Side Marker Lamp with Clear Lens

LED side marker featuring clear impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility. Optic appears clear until illuminated.



P/N 2031BL

Part Numbers	2033	
	2033BL	BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Polycarbonate.	
Compliance	ADR 45/01	

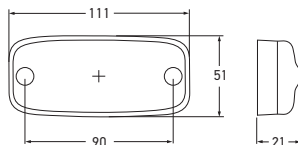
DuraLED® Rear Position /End Outline Lamp

LED rear position/rear end outline lamp featuring red impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility.



Part Number	2309	
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Spare Part	9.2366.17	Screw boss kit
Lens Material	Polycarbonate.	
Compliance	ADR 49/00	

MARKER AND SIGNAL

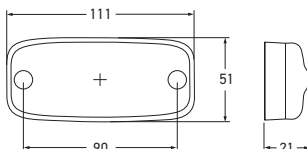


LED Side Marker Lamp – Amber

LED side marker with inbuilt amber retro reflector. Bridge circuit for protection against polarity reversal.



Part Numbers	2047	12 VOLT DC
	2048	24 VOLT DC
Power Consumption	12V DC 0.7W 24V DC 1.3W	
Protection	Fully sealed against dust, high-pressure washing/steam jet cleaning	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.	
Compliance	ADR 74/00: Cat. SM1 ADR 47/00 E24 5881 ECE R3/02 ECE R7/02	



LED Rear Position Lamp – Red

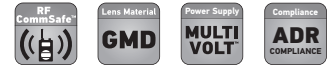
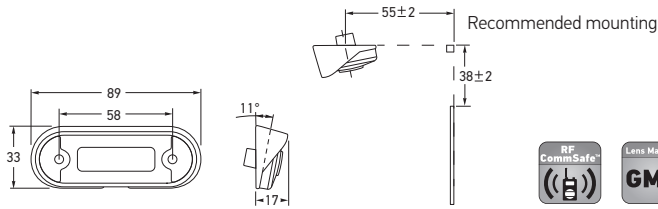
LED rear position lamp with inbuilt red retro reflector. Bridge circuit for protection against polarity reversal.



Part Numbers	2305	12 VOLT DC
	2306	24 VOLT DC
Power Consumption	12V DC 0.5W 24V DC 1W	
Protection	Fully sealed against dust, high-pressure washing/steam jet cleaning	
Cable Length	Pre-wired with 5m of sheathed multi-core cable.	
Compliance	ADR 47/00 ADR 49/00 E24 5881 ECE R3/02 ECE R7/02	

DuraLED® Flush Mount Licence Plate Insert

White DuraLED® licence plate insert featuring a low profile of only 17mm and an ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Two inserts per licence plate are required for compliance. Can be mounted either above or beside the licence plate. Optic appears clear until illuminated.



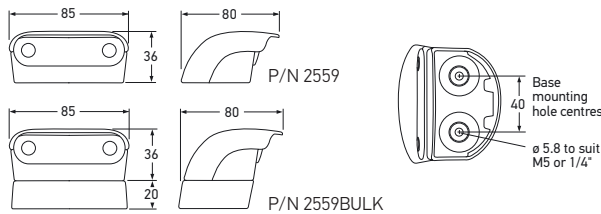
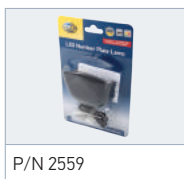
Part Numbers	2560	
	2560BULK	PACK OF 16
Mounting	Surface mount.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of multi-core cable. Bulk pack pre-wired with 2.5m of multi-core cable.	
Spare Parts	9.2310.09-BULK 8HG958029001	Black screw caps (Pack of 4) Angle mount bracket
Lens Material	Grilamid®	
Compliance	ADR 48/00	

LICENCE PLATE LAMP POSITIONING



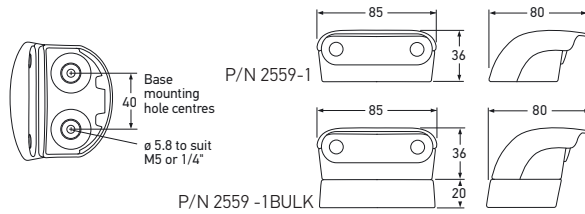
LED Licence Plate Lamp

White LED licence plate lamp. Bulk version includes 20mm mounting spacer. Two lamps required for ADR compliance.



Part Numbers	2559	
	2559BULK	PACK OF 8
	25590EBULK	PACK OF 12
Mounting	Surface mount.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of multi-core cable. P/N 2559BULK - Bulk pack pre-wired with 2.5m of multi-core cable.	
Spare Parts	9.2559.08 9.2559.01 9.2559.09 9.2559.19	Mounting spacer - black LED insert Mounting kit - black Mounting kit - white
Compliance	ADR 48/00	ECE R4/00
Note	Two lamps required for ADR compliance. One each side of licence plate or two above.	

MARKER AND SIGNAL



LED Licence Plate Lamp

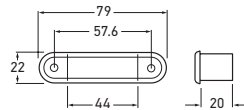
White LED licence plate lamp. Bulk version includes 20mm mounting spacer. One lamp required for ADR compliance.

Part Numbers	2559-1	
	2559-1BULK	PACK OF 8
	2559-1DT	DT CONNECTOR
Mounting	Surface mount.	
Voltage	Multivolt™ for optimum brightness in 10 and 33 volt systems.	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of multi-core cable. Bulk pack pre-wired with 2.5m of multi-core cable.	
Spare Parts	9.2559.08	Mounting spacer - black
	9.2559.02	LED insert
	9.2559.09	Mounting kit - black
	9.2559.19	Mounting kit - white
Compliance	ADR 48/00	ECE R4/00
Note	One lamp to the side of the licence plate is required for ADR compliance.	



LED Licence Plate Lamp Insert

LED Insert to suit LED licence plate Lamp, Part No. 2559

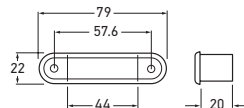


Part Number	9.2559.01	
Mounting	Flush Mount (gasket and screw caps included)	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of cable.	
Compliance	ADR 48/00	



LED Licence Plate Lamp Insert

LED Insert to suit LED licence plate Lamp, Part No. 2559-1.



Part Number	9.2559.02	
Mounting	Flush Mount (gasket and screw caps included)	
Voltage	Multivolt™ for optimum brightness in 10 and 33 volt systems.	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of cable.	
Compliance	ADR 48/00	



RFCCommSafe™

LED Lighting Products with Superior Electromagnetic Compatibility



LED Licence Plate Lamp



DuraLED® Side Marker Lamp



DuraLED® Heavy Duty Side Marker Lamp



DuraLED® Heavy Duty Side Marker Lamp

HELLA LED WORK LAMPS – QUALITY WITH PERFORMANCE

Electromagnetic Compatibility (EMC) is an increasingly relevant safety concern for many emergency, mining and industrial applications. As electronic devices such as LED lamps become more common, so does the risk of unintended electromagnetic interference (EMI) from inferior lamps that can have adverse effects on radios and other communication equipment.

HELLA Lamps marketed as RFCCommSafe™ are designed to go well beyond the regulatory requirements as defined in international standards such as EN 55015, CISPR 15, CISPR 25 or relevant UNECE R10 Standards.



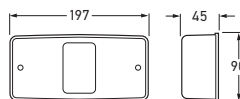
RFCCommSafe™ products are specified by the New Zealand Fire Service



Technology with Vision



MARKER AND SIGNAL

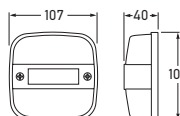


Stop/Rear Position/Rear Direction Indicator/Licence Plate Lamp with Retro Reflector

Combination Lamp - Includes red lens insert for use where licence plate lamp is not required.



Part Number	2368		12 VOLT
Mounting	Surface mount.		
Globes to Suit		12V	24V
	Stop:	K1221	K2421
	Rear position/Licence plate:	L1210	L2410
	Rear direction indicator:	K1221	K2421
Spare Part	9.2368.01	Lens (includes red and clear lens inserts)	
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 48/00 ADR 49/00

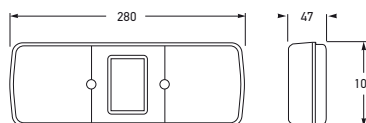


Stop/Rear Position/Rear Direction Indicator/Licence Plate Lamp with Retro Reflector

Suitable for insulated earth circuits. Includes red insert for use where licence plate lamp is not required.



Part Number	2396		12 VOLT
Mounting	Surface mount.		
Globes to Suit		12V	24V
	Stop:	K1221	K2421
	Rear position/Licence plate:	L125	L245
	Rear direction indicator:	K1221	K2421
Spare Part	9.2396.01 9.2397.40	Lens (includes red and clear lens inserts) Lens gasket	
Compliance	ADR 6/00: Cat 2a	ADR 48/00	ADR 49/00
Note	Inbuilt retro reflector does not comply with ADR 47/00.		



Stop/Rear Position/Rear Direction Indicator Lamp with Retro Reflector

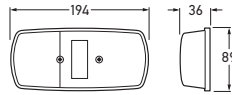
Suitable for insulated earth circuits. Shallow body. Retro reflector area 32cm².



Part Numbers	2397		12 VOLT
	2397BULK		PACK OF 22
	2397BL		BLISTER PACK
Mounting	Surface mount.		
Globes to Suit		12V	24V
	Stop:	K1221	K2421
	Rear position:	L125	L245
	Rear direction indicator:	K1221	K2421
Spare Parts	9.2397.01 9.2397.40	Lens Lens gasket	
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00
Note	Bulk pack lamps supplied without globes.		

Stop/Rear Position/Rear Direction Indicator Lamp

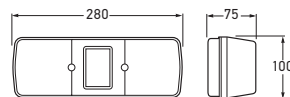
Suitable for insulated earth circuits.



Part Number	2398		
Mounting	Surface mount.		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V	24V	
Stop:	K1221	K2421	
Rear position:	L125	L245	
Rear direction indicator:	K1221	K2421	
Spare Part	9.2398.01	Lens	
Compliance	ADR 6/00: Cat 2a	ADR 49/00	
Note	Inbuilt retro reflector does not comply with ADR 47/00.		

Stop/Rear Position/Rear Direction Indicator/Licence Plate Lamp with Retro Reflector

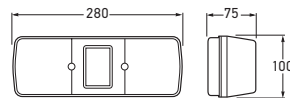
Deep-bodied rear combination lamp with rubber mounted bayonet globe holders. Suitable for insulated earth circuits.



Part Number	2400			
Mounting	Surface mount (Mounting bolts included).			
Voltage	Globes to be ordered separately.			
Globes to Suit	12V (Bayonet base)	24V (Bayonet base)		
Stop:	R1221	R2421		
Rear position/Licence plate:	G1210	G2410		
Rear direction indicator:	R1221	R2421		
Spare Part	9.2401.01	Lens		
	9.2397.40	Lens gasket		
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 48/00	ADR 49/00

Stop/Rear Position/Rear Direction Indicator/Licence Plate/Reversing Lamp with Retro Reflector

Deep-bodied rear combination lamp with rubber mounted bayonet globe holders. Suitable for insulated earth circuits.

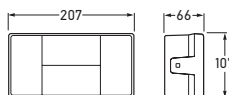


Part Number	2401			
Mounting	Surface mount (Mounting bolts included).			
Voltage	Globes to be ordered separately.			
Globes to Suit	12V (Bayonet base)	24V (Bayonet base)		
Stop/Rear position/Licence plate:	S1221/5V	S2421/5V		
Rear direction indicator:	R1218, R1221, R1232	R2418, R2421		
Reverse:	G1210	G2410		
Spare Part	9.2401.01	Lens		
	9.2397.40	Lens gasket		

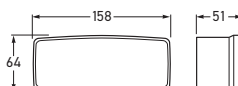
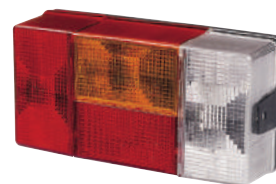
MARKER AND SIGNAL

Ford Type Stop/Rear Position/Rear Direction Indicator/Reversing Lamp

Suitable for insulated earth circuits.



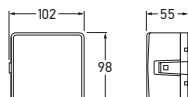
Part Numbers	2414	LEFT HAND SIDE	
	2415	RIGHT HAND SIDE	
Mounting	Surface mount. Suitable for horizontal mounting only.		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V	24V	
	Stop:	R1221	R2421
	Rear position:	G1210	G2410
	Rear direction indicator:	R1221	R2421
Spare Parts	9.2414.01	Lens to suit 2414	
	9.2415.01	Lens to suit 2415	
Compliance	ADR 1/00	ADR 6/00: Cat 2a	ADR 49/00



Stop/Rear Position/Rear Direction Indicator Lamp

Right-hand-side version includes licence plate lamp.

Part Numbers	2419	LEFT HAND SIDE	
	2420 (With Licence Plate Lamp)	RIGHT HAND SIDE	
Mounting	Surface mount.		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V (Bayonet base)	24V (Bayonet base)	
	Stop:	R1221	R2421
	Rear position/Licence plate:	G1210	G2410
	Rear direction indicator:	R1221	R2421
Spare Parts	9.2419.01	Lens to suit 2419	
	9.2420.01	Lens to suit 2420	
Compliance	ADR 6/00: Cat 2a	ADR 48/00	ADR 49/00



Stop/Rear Position/Rear Direction Indicator/Licence Plate Lamp

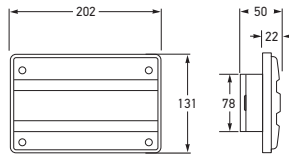
Includes red lens insert for use where licence plate lamp is not required.

Part Number	2421		
Mounting	Surface mount.		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V (Bayonet base)	24V (Bayonet base)	
	Stop:	R1221	R2421
	Rear position/Licence plate:	G1210	G2410
	Rear direction indicator:	R1221	R2421
Spare Parts	9.2421.01	Lens to suit 2421 (includes red and clear inserts)	
Compliance	ADR 6/00: Cat 2a	ADR 48/00	ADR 49/00



Designline Stop/Rear Position Lamp with Retro Reflector

Single Globe holder. Suitable for insulated earth circuits. Reflector area 35cm².



Part Numbers	2321		
	2321PC		PC LENS
Mounting	Recess mount with 78 x 145mm opening. Suitable for horizontal or vertical mounting.		
Voltage	Globe to be ordered separately.		
Globes to Suit	12V	S1221/5V (Bayonet base)	
	24V	S2421/5V (Bayonet base)	
Compliance	ADR 47/00	ADR 49/00	

Designline Rear Direction Indicator Lamp

Single Globe holder. Suitable for insulated earth circuits.



Part Numbers	2145		
	2145PC		PC LENS
Mounting	Recess mount with 78 x 145mm opening. Suitable for horizontal or vertical mounting.		
Voltage	Globe to be ordered separately.		
Globes to Suit	12V	R1221 (Bayonet base)	
	24V	R2421 (Bayonet base)	
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.		
Compliance	ADR 6/00: Cat 2a		

Designline Reversing Lamp

Single Globe holder. Suitable for insulated earth circuits.

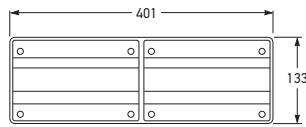


Part Numbers	2046		
	2046PC		PC LENS
Mounting	Recess mount with 78 x 145mm opening. Suitable for horizontal or vertical mounting.		
Voltage	Globe to be ordered separately.		
Globes to Suit	12V	R1221 (Bayonet base)	
	24V	R2421 (Bayonet base)	
Additional Function	Front Position or Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.		
Compliance	ADR 1/00		

SPARE PARTS FOR DESIGNLINE RECESS MOUNT LAMPS

9.2320.01	Red lens	9.2043.05	Lens or base gasket
9.2321PC.01	Red Polycarbonate lens	9.2041.08	Single contact globe holder (Includes 12V Globe)
9.2144.01	Amber lens	9.2320.08	Double contact globe holder (Includes 12V Globe)
9.2145PC.01	Amber Polycarbonate lens		
9.2041.01	Clear lens		
9.2046PC.01	Clear Polycarbonate lens		

MARKER AND SIGNAL

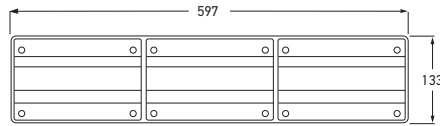


Designline Stop/Rear Position /Rear Direction Indicator Lamp with Retro Reflector

Suitable for insulated earth circuits.



Part Number	2422	12 VOLT	
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.		
Globes to Suit	12V (Bayonet base) Stop/rear position: S1221/5V Rear direction indicator: R1221	24V (Bayonet base) S2421/5V R2421	
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00



Designline Stop/Rear Position /Rear Direction Indicator Lamp with Retro Reflector

Suitable for insulated earth circuits.



Part Number	2423		
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V (Bayonet base) Stop/rear position: 2 x S1221/5V Rear direction indicator: R1221	24V (Bayonet base) 2 x S2421/5V R2421	
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00



Designline Stop/Rear Position /Rear Direction Indicator/Reversing Lamp with Retro Reflector

Suitable for insulated earth circuits.



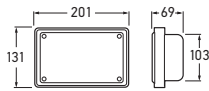
Part Number	2424			
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.			
Voltage	Globes to be ordered separately.			
Globes to Suit	12V (Bayonet base) Stop/rear position: S1221/5V Rear direction indicator: R1221 Reversing: R1221	24V (Bayonet base) S2421/5V R2421 R2421		
Compliance	ADR 1/00	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00

SPARE PARTS FOR DESIGNLINE SURFACE MOUNT LAMPS

9.2320.01	Red lens	9.2320.08	Double contact globe holder (Includes 12V Globe)
9.2321PC.01	Red Polycarbonate lens	9.2041.09	Single housing
9.2144.01	Amber lens	9.2041.09BULK	Single housing (pack of 10)
9.2145PC.01	Amber Polycarbonate lens	9.2422.09	Double housing
9.2041.01	Clear lens	9.2422.09BULK	Double housing (pack of 10)
9.2046PC.01	Clear Polycarbonate lens	9.2423.09	Triple housing
9.2043.05	Lens or base gasket	9.2423.06	Installation pack
9.2041.08	Single contact globe holder (Includes 12V Globe)		

Jumbo Stop/Rear Position Lamp with Retro Reflector

Single globe holder. Suitable for insulated earth circuits.



Part Number	2319	12 VOLT
Mounting	Recess mount with 103 x 171 mm opening.	
Globes to Suit	12V 24V	S1221/5V (Bayonet base) S2421/5V (Bayonet base)
Spare Part	9.2319.01 9.2043.05 9.2319.09	Lens Lens gasket Housing assembly (no globe holder)
Compliance	ADR 47/00	ADR 49/00

Jumbo Rear Direction Indicator Lamp

Single globe holder. Suitable for insulated earth circuits.



Part Number	2143	12 VOLT
Mounting	Recess mount with 103 x 171 mm opening.	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.	
Spare Part	9.2143.01 9.2043.05 9.2319.09	Lens Lens gasket Housing assembly (no globe holder)
Compliance	ADR 6/00: Cat 2a	

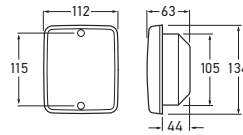
Jumbo Reversing Lamp

Single globe holder. Suitable for insulated earth circuits.



Part Number	2043	12 VOLT
Mounting	Recess mount with 103 x 171 mm opening.	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Spare Part	9.2043.01 9.2043.05 9.2319.09	Lens Lens gasket Housing assembly (no globe holder)
Compliance	ADR 1/00	

MARKER AND SIGNAL



Stop Lamp

Single globe holder. Suitable for insulated earth circuits.



Part Number	2323	
Mounting	Recess mount with 97 x 105mm opening.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V	R1221 (Bayonet base)
	24V	R2421 (Bayonet base)
Spare Part	9.2323.01	Lens
Compliance	ADR 49/00	



Rear Direction Indicator Lamp

Single globe holder. Suitable for insulated earth circuits.



Part Number	2149	
Mounting	Recess mount with 97 x 105mm opening.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V	R1221 (Bayonet base)
	24V	R2421 (Bayonet base)
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.	
Spare Part	9.2149.01	Lens
Compliance	ADR 6/00: Cat 2a	



Reversing Lamp

Single globe holder. Suitable for insulated earth circuits.



Part Number	1406	
Mounting	Recess mount with 97 x 105mm opening.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V	R1221 (Bayonet base)
	24V	R2421 (Bayonet base)
Additional Function	Front Position or Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.	
Spare Part	9.1406.01	Lens
Compliance	ADR 1/00	



Rear Position/Outline Lamp

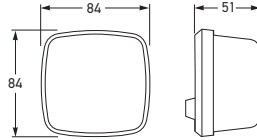
Single globe holder. Suitable for insulated earth circuits.



Part Number	2322	
Mounting	Recess mount with 97 x 105mm opening.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V	G125 (Bayonet base)
	24V	G245 (Bayonet base)
Spare Part	9.2322.01	Lens
Compliance	ADR 49/00	

Front Direction Indicator Lamp

Single globe holder. Suitable for insulated earth circuits.



Part Number	2148	
Mounting	Surface mount.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.	
Spare Part	9.2148.01	Amber lens
Compliance	ADR 6/00: Cat 1	

Stop/Rear Position/Licence Plate Lamp

Double globe holder.



Part Number	2384		
Mounting	Surface mount.		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V 24V	Stop: Rear position/Licence plate:	R1221 (Bayonet base) R2421 (Bayonet base) L125 L245
Spare Part	9.2384.01	Red lens	
Compliance	ADR 48/00	ADR 49/00	

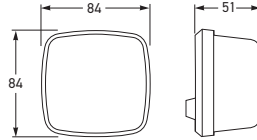
Rear Direction Indicator Lamp

Single globe holder.



Part Number	2147	
Mounting	Surface mount.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.	
Spare Part	9.2147.01	Amber lens
Compliance	ADR 6/00: Cat 2a	

MARKER AND SIGNAL



Reversing Lamp

Single globe holder.



Part Number	1405		
Mounting	Surface mount.		
Voltage	Globe to be ordered separately.		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Spare Part	9.1405.01	Clear lens	
Compliance	ADR 1/00		

Front Position/End Outline Lamp

Single globe holder.



Part Number	2064		
Mounting	Surface mount.		
Voltage	Globe to be ordered separately.		
Globes to Suit	6V L65	12V L125	24V L245
Spare Part	9.2064.01	Clear lens	
Compliance	ADR 49/00		

Rear Position/Outline Lamp

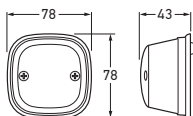
Single globe holder.



Part Number	2325		
Mounting	Surface mount.		
Voltage	Globe to be ordered separately.		
Globes to Suit	6V L65	12V L125	24V L245
Spare Part	9.2325.01	Lens	
Compliance	ADR 49/00		

Front Direction Indicator

Single globe holder. Suitable for insulated earth circuits.



Part Number	2140			CHROME BASE
Voltage	Globe to be ordered separately.			
Globes to Suit	12V 24V	K1221 K2421		
Additional Function	Front End Outline Lamp when used with 12V (L125) or 24V (L245) 5W festoon globes.			
Spare Parts	9.2140.01 9.2397.40	Amber lens Lens gasket		
Compliance	ADR 6/00: Cat 1			

Stop/Rear Position Lamp

Two globe holders. Suitable for insulated earth circuits.



Part Number	2304			CHROME BASE
Voltage	Globes to be ordered separately			
Globes to Suit	Stop: Rear position:	6V L65	12V K1218 L125	24V K2418 L245
Spare Parts	9.2304.01 9.2397.40	Red lens Lens gasket		

Stop/Rear Position and Licence Plate Lamp

Two globe holders. Suitable for insulate earth circuits.



Part Number	2388			CHROME BASE
Voltage	Globes to be ordered separately.			
Globes to Suit	Stop: Rear position/Licence plate:	6V K618 L65	12V K1218 L125	24V K2418 L245
Spare Parts	9.2388.01 9.2397.40	Red lens Lens gasket		

Rear Position/Direction Indicator Lamp

Two globe holders. Suitable for insulated earth circuits.



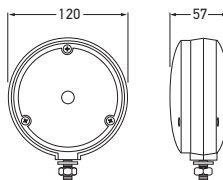
Part Number	2082			CHROME BASE
Voltage	Globes to be ordered separately.			
Globes to Suit	Rear position: Rear direction indicator:	6V L65 K618	12V L125 K1218	24V L245 K2418
Spare Parts	9.2397.40	Lens gasket		

Front Position/Outline Lamp

Single globe holder. Suitable for insulated earth circuits.



Part Number	2141		CHROME BASE
Voltage	Globe to be ordered separately.		
Globes to Suit	12V 24V	L125 L245	
Spare Parts	9.2141.01 9.2397.40	Clear lens Lens gasket	
Compliance	ADR 49/00		

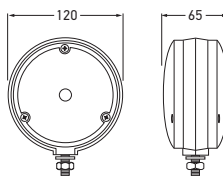


Front Direction Indicator (Cat. 1)

Single-sided front direction indicator. Black backing plate.



Part Number	2128		12 VOLT
Mounting	Single bolt mount.		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used.		
Spare Part	2.9800.09 2.9800.08 2.9801.01 2.9803.09 2.9800.091 2.6702.03 9.2397.40	Amber lens Clear lens Red lens Red lens with inbuilt retro reflector Blue lens Backing plate Lens gasket	
Compliance	ADR 6/00: Cat 1		



Front Direction Indicator / Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Double-sided direction indicator lamp.



Part Number	2127		12 VOLT
Mounting	Single bolt mount.		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used.		
Spare Part	2.9800.09 2.9800.08 2.9801.01 2.9803.09 2.9800.091 9.2397.40	Amber lens Clear lens Red lens Red lens with inbuilt retro reflector Blue lens Lens gasket	
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	



Front Direction Indicator / Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

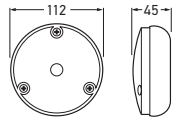
Double-sided direction indicator lamp with double-contact globe holder. Suitable for insulated earth circuits.



Part Number	2129		12 VOLT
Mounting	Single bolt mount.		
Globes to Suit	12V 24V	FD1221 (Bayonet base) FD2421 (Bayonet base)	
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used.		
Spare Part	2.9800.09 2.9800.08 2.9801.01 2.9803.09 2.9800.091 9.2397.40	Amber lens Clear lens Red lens Red lens with inbuilt retro reflector Blue lens Lens gasket	
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	

Front Direction Indicator

Single globe holder. Suitable for insulated earth circuits. 2135PC features a polycarbonate lens for high-impact or high-operating-temperature applications.



Part Numbers	2135	12 VOLT
	2135PC (Polycarbonate Lens)	12 VOLT
Mounting	Surface mount.	
Globes to Suit	12V 24V	K1221 K2421
Additional Function	Front End Outline Lamp when used with 12V (L125) or 24V (L245) 5W festoon globes.	
Spare Part	2.9800.09 2.9800.08 2.9801.01 2.9803.09 2.9800.091 9.2397.40	Amber lens Clear lens Red lens Red lens with inbuilt retro reflector Blue lens Lens gasket
Compliance	ADR 6/00: Cat 1	

Stop/Rear Position Lamp

Two globe holders. Suitable for insulated earth circuits. 2314PC features a polycarbonate lens for high-impact or high-operating-temperature applications.



Part Numbers	2314	12 VOLT	
	2314PC (Polycarbonate lens)		
Mounting	Surface mount.		
Globes to Suit	Stop: Rear position:	12V L125 K1221	24V L245 K2421
Spare Part	2.9801.01 2.9803.09 2.9800.08 2.9800.09 2.9800.091 9.2397.40	Red lens Red lens with inbuilt retro reflector Clear lens Amber lens Blue lens Lens gasket	
Compliance	ADR 49/00		

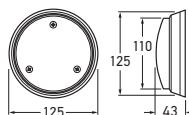
Stop/Rear Position and Licence Plate Lamp

Two globe holders. Suitable for insulated earth circuits.



Part Number	2386	12 VOLT		
Mounting	Surface mount.			
Globes to Suit	Stop: Rear position/Licence plate:	6V K618 L65	12V K1218 L125	24V K2418 L245
Spare Part	2.9801.01 2.9803.09 2.9800.08 2.9800.09 2.9800.091 9.2397.40	Red lens Red lens with inbuilt retro reflector Clear lens Amber lens Blue lens Lens gasket		

MARKER AND SIGNAL



Front Direction Indicator

Single globe holder. Suitable for insulated earth circuits.



Part Number	2136	CHROME BASE
Mounting	Surface mount.	
Globes to Suit	12V 24V	K1221 K2421
Additional Function	Front End Outline Lamp when used with 12V (L125) or 24V (L245) 5W festoon globes.	
Spare Part	2.9800.09 2.9800.08 2.9801.01 2.9803.09 2.9800.091 9.2397.40	Amber lens Clear lens Red lens Red lens with inbuilt retro reflector Blue lens Lens gasket
Compliance	ADR 6/00: Cat 1	

Stop/Rear Position Lamp

Two globe holders. Suitable for insulated earth circuits.



Part Numbers	2315	CHROME BASE
	2316 (Inbuilt retro reflector)	
Mounting	Surface mount.	
Globes to Suit	12V 24V	L125 L245
	Stop: Rear position:	K1221 K2421
Spare Part	2.9801.01 2.9803.09 2.9800.08 2.9800.09 2.9800.091 9.2397.40	Red lens Red lens with inbuilt retro reflector Clear lens Amber lens Blue lens Lens gasket
Compliance	ADR 49/00	
Note	2316 is not ADR compliant.	

Front Position/Outline Lamp

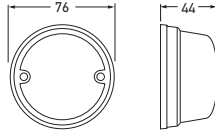
Single globe holder. Suitable for insulated earth circuits.



Part Number	2063	CHROME BASE
Mounting	Surface mount.	
Globes to Suit	6V L65	12V L125
		24V L245
Spare Part	2.9800.08 2.9800.09 2.9801.01 2.9803.09 2.9800.091 9.2397.40	Clear lens Amber lens Red lens Red lens with inbuilt retro reflector Blue lens Lens gasket
Compliance	ADR 49/00	

Front Direction Indicator Lamp

Single globe holder.



Part Number	2100			12 VOLT
Globes to Suit	12V 24V	K1221 K2421		
Spare Parts	2.6830.01	Amber lens		
Compliance	ADR 6/00: Cat 1a			

Front Position/Direction Indicator Lamp

Two globe holders.



Part Number	2070				12 VOLT
Globes to Suit		6V	12V	24V	
	Front position:	L65	L125	L245	
	Front direction indicator:	K618	K1218	K2418	
Spare Parts	2.6111.01	Lens			

Stop Lamp

Single globe holder.



Part Number	2303		
Voltage	Globe to be ordered separately		
Globes to Suit	12V 24V	K1221 K2421	
Spare Parts	2.2459.01	Red lens	
Compliance	ADR 49/00		

Stop/Rear Position Lamp

Two globe holders.



Part Number	2350			
Voltage	Globes to be ordered separately			
Globes to Suit		6V	12V	24V
	Stop:	K618	K1218	K2418
	Rear position:	L65	L125	L245
Spare Parts	2.2705.01	Lens		

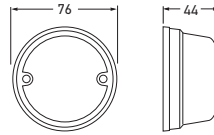
Stop/Rear Position and Licence Plate Lamp

Two globe holders.



Part Number	2351			
Voltage	Globes to be ordered separately			
Globes to Suit		6V	12V	24V
	Stop:	K618	K1218	K2418
	Rear position/Licence plate:	L65	L125	L245
Spare Parts	2.2885.01	Lens		

MARKER AND SIGNAL



Stop/Rear Position and Licence Plate Lamp

Two globe holders.



Part Number	2353	12 VOLT		
Globes to Suit		6V	12V	24V
	Stop:	K618	K1218	K2418
	Rear position/Licence plate:	L65	L125	L245
Spare Parts	2.2884.01	Lens		

Rear Position/Direction Indicator Lamp

Two globe holders.



Part Number	2072			
Voltage	Globes to be ordered separately			
Globes to Suit		6V	12V	24V
	Rear position:	L65	L125	L245
	Rear direction indicator:	K618	K1218	K2418
Spare Parts	2.2703.01	Lens		



Front Position/End Outline Lamp

Single globe holder.



Part Number	2000				12 VOLT
Globes to Suit	6V	12V	24V		
	L65	L125	L245		
Spare Parts	2.6856.01	Clear lens			
Compliance	ADR 49/00				



Front End Outline/Supplementary Side Direction Indicator Lamp (Cat. 5)

Single globe holder.



Part Number	2077			
Voltage	Globe to be ordered separately.			
Globes to Suit	6V	12V	24V	
	L65	L125	L245	
Spare Part	2.6830.01	Amber lens		
Compliance	ADR 6/00: Cat 5	ADR 49/00		



Rear Position/Outline Lamp

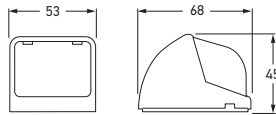
Single globe holder. Suitable for insulated earth circuits.



Part Number	2078			
Voltage	Globe to be ordered separately.			
Globes to Suit	6V	12V	24V	
	L65	L125	L245	
Spare Parts	2.2459.01	Lens		
Compliance	ADR 49/00			

**Front Position/Front End
Outline Lamp – White**

Fitted with polycarbonate lens and single
Globe holder.



Part Number	2066	
Mounting	Surface mount.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V	G1210 (Bayonet base)
	24V	G2410 (Bayonet base)
Compliance	ADR 49/00	

**Cab Marker/Front End Outline
Lamp – Amber**

Fitted with polycarbonate lens and single
Globe holder.



Part Number	2067	
Mounting	Surface mount.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V	G125 (Bayonet base)
	24V	G245 (Bayonet base)
Compliance	ADR 45/01	ADR 49/00

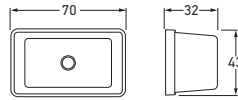
**Rear Position/Outline Lamp
– Red**

Fitted with polycarbonate lens and single
Globe holder.



Part Number	2324	
Mounting	Surface mount.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V	G1210 (Bayonet base)
	24V	G2410 (Bayonet base)
Compliance	ADR 49/00	


MARKER AND SIGNAL



Side Marker Lamp

Suitable for insulated earth circuits.



Part Number	2042		12 VOLT
Mounting	Surface mount.		
Globes to Suit	12V 24V	M123 x 2 M243 x 2	
Spare Parts	9.2042.01	Red/Amber lens	
Compliance	ADR 45/01		

Supplementary Side Direction Indicator Lamp (Cat. 5)

Suitable for insulated earth circuits.



Part Number	2044	12 VOLT
Mounting	Surface mount.	
Globes to Suit	12V 24V	2 x M123 2 x M243
Spare Part	9.2044.01 9.2397.40	Amber lens Lens gasket
Compliance	ADR 6/00: Cat 5	



Marker Lamp – Red

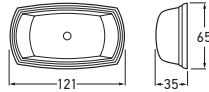
Suitable for insulated earth circuits.



Part Number	2045	12 VOLT
Mounting	Surface mount.	
Globes to Suit	12V 24V	M123 x 2 M243 x 2
Spare Parts	9.2045.01	Red lens



Side Marker Lamp



Part Number	2029			12 VOLT
Mounting	Surface mount.			
Globes to Suit	6V L65	12V L125	24V L245	
Spare Parts	2.9800.01	Red/Amber lens		
Compliance	ADR 45/01			

Side Marker Lamp with Metal Guard



Part Number	2037			
Mounting	Surface mount.			
Voltage	Globe to be ordered separately.			
Globes to Suit	6V L65	12V L125	24V L245	
Spare Parts	2.9800.01 9.2037.50	Red/Amber lens Metal guard		
Compliance	ADR 45/01			

Supplementary Side Direction Indicator Lamp (Cat. 5)



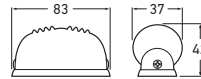
Part Number	2030			
Mounting	Surface mount.			
Voltage	Globe to be ordered separately.			
Globes to Suit	6V L65	12V L125	24V L245	
Spare Part	9.9800.02	Amber lens		
Compliance	ADR 6/00: Cat 5			

Supplementary Side Direction Indicator Lamp with Metal Guard (Cat. 5)



Part Number	2038			
Mounting	Surface mount.			
Voltage	Globe to be ordered separately.			
Globes to Suit	6V L65	12V L125	24V L245	
Spare Part	2.9800.02 9.2037.50	Amber lens Metal guard		
Compliance	ADR 6/00: Cat 5			

Front Position/Front End
Outline Lamp – White



Part Number	2065		
Mounting	Surface mount.		
Voltage	Globe to be ordered separately.		
Globes to Suit	6V L65	12V L125	24V L245
Spare Parts	9.2065.01	Lens	
Compliance	ADR 49/00		

Front End Outline/Supplementary
Side Direction Indicator Lamp
(Cat. 5)

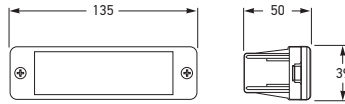


Part Number	2117		
Mounting	Surface mount		
Voltage	Globe to be ordered separately.		
Globes to Suit	6V L65	12V L125	24V L245
Spare Part	2.6846.01	Amber lens	
Compliance	ADR 6/00: Cat 5	ADR 49/00	



Front Direction Indicator Lamp (Cat. 1)

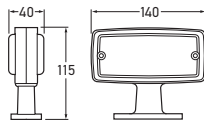
Universal flush mount front direction indicator lamp ideal for coach or bull-bar applications.



Part Number	2101	
Mounting	Flush mount. Suitable for left and right hand mounting.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	R1221 R2421
Spare Part	9.2101.01	Amber lens
Compliance	ADR 6/00: Cat 1	

Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

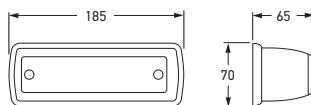
Double-sided front direction indicator lamp. Suitable for insulated earth circuits.



Part Number	2126	
Mounting	Pedestal mount	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used.	
Spare Part	9.2126.01	Amber lens
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5

Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 6)

Single globe holder.

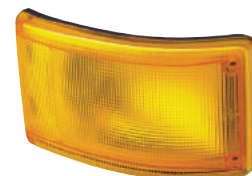
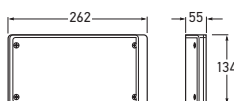


Part Number	2142	
Mounting	Surface mount	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	R1221 R2421
Additional Function	Supplementary side direction indicator lamp (Cat. 5) where 12V (G125) or 24V (G245) Globes are used.	
Spare Part	9.2142.01	Amber lens
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 6

MARKER AND SIGNAL

Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

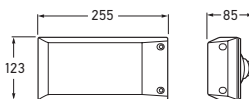
Wrap-around front direction indicator lamp. Suitable for insulated earth circuits.



Part Number	2150		
Mounting	Flush mount		
Voltage	Globe to be ordered separately.		
Globes to Suit	12V	R1221 (Bayonet base)	
	24V	R2421 (Bayonet base)	
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.		
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	

Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Curved front direction indicator with colourless front lens and internal amber filter producing the required amber light when activated. Includes separate front position lamp function. Supplied complete with protective rubber boot.



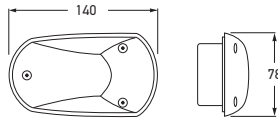
Part Number	2158		
Mounting	Flush mount		
Voltage	Globes to be ordered separately.		
Globes to Suit		12V	24V
	Front position:	W125	W245
	Direction indicator:	R1221	R2421
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	ADR 49/00

Supplementary Side Direction Indicator Lamp (Cat. 6)

Side mounted direction lamp suitable for either left or right hand mounting.



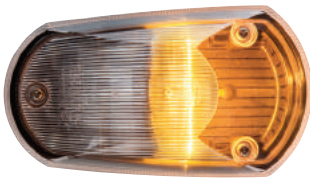
P/N 9.2155.05



Part Number	2155	
Mounting	Flush mount. Suitable for left and right hand mounting.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	RY1221 (Bayonet base) R2421 (Bayonet base)
Spare Part	9.2155.05	Wiring harness set - with sealing grommet.
Compliance	ADR 6/00: Cat 6	
Arrow on lens must face direction of travel.		

Supplementary Side Direction Indicator Lamp (Cat. 6)

Side mounted direction lamp suitable for either left or right hand mounting. Optic appears clear until illuminated.



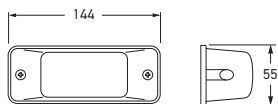
P/N 9.2155.05



Part Number	2155CLR	
Mounting	Flush mount. Suitable for left and right hand mounting.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	RY1221 (Bayonet base) RY2421LL (Bayonet base)
Spare Part	9.2155.05	Wiring harness set - with sealing grommet.
Compliance	ADR 6/00: Cat 6	
Arrow on lens must face direction of travel.		

Supplementary Side Direction Indicator Lamp (Cat. 6)

Side mounted direction indicator lamp with rubber base. Suitable for insulated earth circuits.

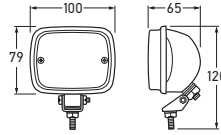


Part Numbers	2153	LEFT HAND SIDE
	2154	RIGHT HAND SIDE
Mounting	Surface mount.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Compliance	ADR 6/00: Cat 6	

Arrow on lens must face direction of travel.
Replacing ADR 6/00: Cat. 5 Supp. Side Direction Indicator Lamps with ADR 6/00: Cat. 6 Supp. Side Direction Indicator Lamps is permitted in all instances. Arrow on lens must face direction of travel.

Reversing Lamp – Chrome

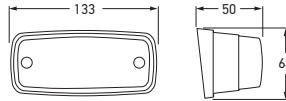
Robust chrome housing.



Part Number	1403	
Mounting	Bracket with fixing screw for mounting on vertical or horizontal surfaces.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V	R1221 (Bayonet base)
	24V	R2421 (Bayonet base)
Compliance	ADR 1/00	

Reversing Lamp

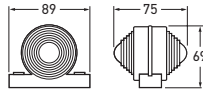
Single Globe holder.



Part Number	1413	12 VOLT
Mounting	Surface mount.	
Globes to Suit	12V	R1221 (Bayonet base)
	24V	R2421 (Bayonet base)
Spare Part	9.1413.02	Lens
Compliance	ADR 1/00	

Side Marker Lamp

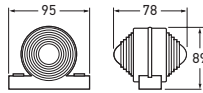
Rubber body double-sided lamp. Suitable for insulated earth circuits.



Part Number	2006			12 VOLT
Mounting	Pedestal mount.			
Globes to Suit	6V L65	12V L125	24V L245	
Spare Parts	9.2006.01 9.2006.02 2.4602.07	Red lens Amber lens Globe holder		
Compliance	ADR 45/01			

Side Marker Lamp

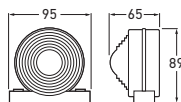
Rubber body double-sided lamp. Suitable for insulated earth circuits.



Part Number	2009			12 VOLT
Mounting	Pedestal mount.			
Globes to Suit	6V L65	12V L125	24V L245	
Spare Parts	2.4602.02 2.1879.03 2.4602.021	Red lens Amber lens Clear lens		
Compliance	ADR 45/01			

Marker Lamp – Red

Rubber body single-sided lamp. Suitable for insulated earth circuits.



Part Number	2023			12 VOLT
Mounting	Pedestal mount.			
Globes to Suit	6V L65	12V L125	24V L245	
Spare Parts	2.4602.02 2.4602.021 2.4602.07	Red lens Clear lens Globe holder		

INCREASE VISIBILITY, REDUCE MAINTENANCE



HELLA LED TRUCK AND TRAILER LIGHTING SOLUTIONS

From LED Safety DayLights™ and Beacons, to Side Markers and Rear Signal Lamps, HELLA offers a huge variety of LED truck and trailer lighting solutions.

HELLA employs approximately 6,000 staff in Research and Development alone, and our LED lamps have been designed for 'Fit and Forget' lighting solutions and rigorously tested. They use markedly less energy than incandescent globes, saving you fuel as well.



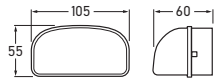
HELLA Quality – Tested & Proven



Technology with Vision

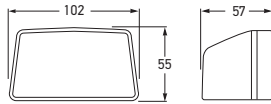


Licence Plate Lamp



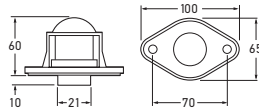
Part Number	2550		
Mounting	Surface mount.		
Voltage	Globe to ordered separately.		
Globes to Suit	6V L65	12V L125	24V L245
Compliance	ADR 48/00		

Licence Plate Lamp



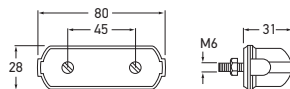
Part Number	2553		12 VOLT
Mounting	Surface mount.		
Globes to Suit	6V G610	12V G1210 (Bayonet base)	24V G2410 (Bayonet base)
Compliance	ADR 48/00		

Licence Plate Lamp



Part Number	2554		
Mounting	Surface mount. (Mounting bolts included)		
Voltage	Globe to ordered separately.		
Globes to Suit	V (G610)	12V (G1210) Bayonet base	24V (G2410) Bayonet base
Compliance	ADR 48/00		
Two lamps required for ADR compliance.			

Licence Plate Lamp

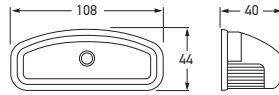



Part Number	2555		
Mounting	Surface mount. Two bolt mount.		
Voltage	Globe to ordered separately.		
Globes to Suit	6V L65	12V L125	24V L245
Compliance	ADR 48/00		
Two lamps required for ADR compliance.			

MARKER AND SIGNAL

Licence Plate Lamp

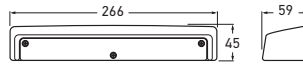
Fitted with two globe holders.



Part Number	2557		12 VOLT
Mounting	Surface mount.		
Globes to Suit	12V 24V	HL124 x 2 HL244 x 2	
Spare Part	9.2557.01	Lens	
Compliance	ADR 48/00		

Licence Plate Lamp

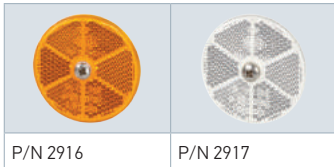
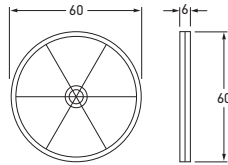
Fitted with two globe holders.



Part Number	2558		
Mounting	Surface mount.		
Voltage	Globes to ordered separately.		
Globes to Suit	12V 24V	L125 x 2 L245 x 2	
Compliance	ADR 48/00		

Retro Reflectors

60mm diameter complete with mounting screw, 22cm². Reflectors with self adhesive are ECE certified.

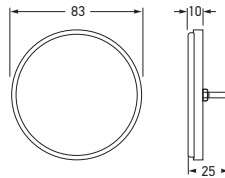


Part Numbers	2915	☐	■ RED
	2915/1000		
	2916	☐	■ AMBER
	2916/1000		
	2917	☐	■ WHITE
	2917/1000		

Compliance ADR 47/00

Retro Reflector - Red

83mm diameter red acrylic retro reflector with black rim, 48cm².



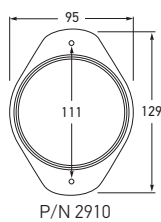
Part Number	2902	☐
Mounting	Surface mount (single bolt mount - 16mm)	
Compliance	ADR 47/00	

Retro Reflector

83mm diameter acrylic retro reflector with plastic or metal surround, 48cm².



P/N 2910

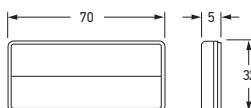


Part Number	2910	■ (Red)	☐	VERTICAL
Mounting	Two hole surface mount.			
Compliance	ADR 47/00			

MARKER AND SIGNAL

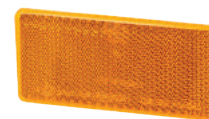
Retro Reflectors

70 x 31.5mm self adhesive, 18cm².



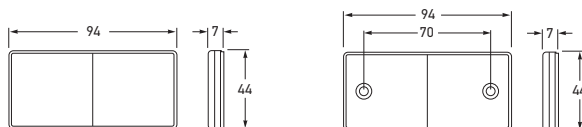
Part Numbers	2919		AMBER
	2919BULK (Pack of 20)		
	2919/200 (Pack of 200)		
	2920		RED
	2920/200 (Pack of 200)		
	2921		WHITE
	2921/200 (Pack of 200)		

Compliance ADR 47/00



Retro Reflectors

94 x 44mm self adhesive (except two bolt hole version), 33cm².



P/N 2923-2 - Two bolt holes

Part Numbers	2922		AMBER
	2922BULK (Pack of 20)		
	2922-2/200 (Pack of 200)		
	2923		RED
	2923-2BULK (Two bolt holes - Pack of 20)		
	2924		WHITE
	2924-2BULK (Pack of 20)		

Compliance ADR 47/00

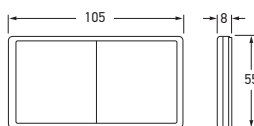


P/N 2922



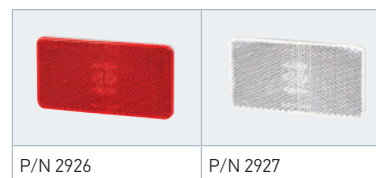
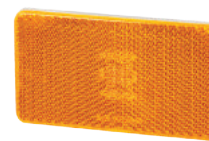
Retro Reflectors

105 x 55mm self adhesive, 50cm².



Part Numbers	2925		AMBER
	2926		RED
	2927		WHITE

Compliance ADR 47/00



DuraLED® Accessories

Spare screw caps or screw bosses for the DuraLED® lamp range. Two screw caps and two screw bosses are required per lamp.



P/N 9.2330.15

SCREW CAPS - DURALED®		
Part Numbers	Colour	Quantity
9.2330.10	■ RED	PACK OF 4
9.2330.11	■ WHITE	
9.2330.12	■ BLUE	
9.2330.13	■ GREEN	
9.2330.14	■ YELLOW	
9.2330.15	■ BLACK	
9.2330.16	■ AMBER	

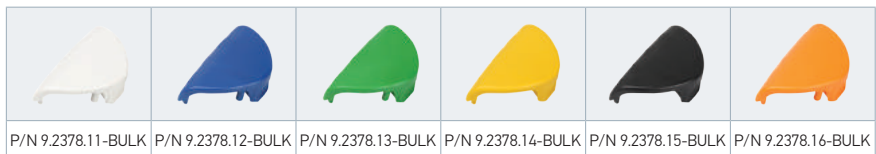


P/N 9.2330.10 P/N 9.2330.11 P/N 9.2330.12 P/N 9.2330.13 P/N 9.2330.14 P/N 9.2330.16



P/N 9.2378.10BULK

SCREW CAPS - DURALED® COMBI-S/COMBI-R		
Part Numbers	Colour	Quantity
9.2377.08	■ GREY	SINGLE
9.2378.08	■ BLACK	
9.2378.10-BULK	■ RED	PACK OF 4
9.2378.11-BULK	■ WHITE	
9.2378.12-BULK	■ BLUE	
9.2378.13-BULK	■ GREEN	
9.2378.14-BULK	■ YELLOW	
9.2378.15-BULK	■ BLACK	
9.2378.16-BULK	■ AMBER	



P/N 9.2378.11-BULK P/N 9.2378.12-BULK P/N 9.2378.13-BULK P/N 9.2378.14-BULK P/N 9.2378.15-BULK P/N 9.2378.16-BULK



P/N 9.2330.08

SCREW CAP AND BOSS SET (2 OF EACH KIND)		PACK OF 4
9.2330.08	(Black DuraLED® Caps)	
9.2378.09	(Black DuraLED® Combi-S Caps)	
9.2377.09	(Grey DuraLED® Combi-S Caps)	



P/N 9.2330.17

SCREW BOSS	
9.2330.17	PACK OF 4

P/N 98071900



P/N 98071901

MOUNTING SPACERS - DURALED® COMBI	
98071900	■ BLACK
98071901	■ WHITE

Mounting spacer allows lamps to be surface mounted with the cable exiting any side of the spacer, or through the centre.

MARKER AND SIGNAL

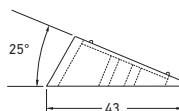
SHROUDS - DURALED® SURFACE MOUNT		
Part Numbers	Colour	Quantity
9.2053.08 (Nylon Retrofit Style)	■ BLACK	SINGLE
9.2053.09 (ASA)	■ BLACK	
9.2053.08BULK (Nylon Retrofit Style)	■ BLACK	PACK OF 4
9.2053.10BULK (Retrofit Style)	■ RED	
9.2053.11BULK (Retrofit Style)	■ WHITE	
9.2053.12BULK (Retrofit Style)	■ BLUE	
9.2053.13BULK (Retrofit Style)	■ GREEN	
9.2053.14BULK (Retrofit Style)	■ YELLOW	
9.2053.15BULK (Retrofit Style)	■ AMBER	
9.2053.20BULK	■ CHROME PLATED	

Retrofit style allows replacement of shroud without cutting cable of lamp.

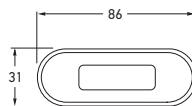


DuraLED® Marker Lamp Accessories

Spare mounting shrouds for the surface mount marker and surface mount courtesy lamp range. One mounting shroud is required per lamp.



ANGLE MOUNT - DURALED® SURFACE MOUNT		
9.2053.07	■ BLACK	SINGLE



RIMS - DURALED® FLUSH MOUNT		
Part Numbers	Colour	Material
95968500	■ POLISHED	316 STAINLESS STEEL
95968502	■ GOLD PLATED	
95968506	■ SATIN CHROME PLATED	

To suit wide marker and signal lamps with 29mm wide rim. Does not fit narrow rim lamps.



DuraLED® Marker Lamp Accessories



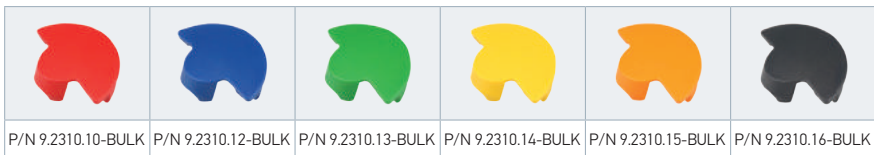
P/N 9.2310.09-BULK



P/N 9.2310.11-BULK

SCREW CAPS - DURALED® FLUSH MOUNT		
Part Numbers	Colour	Quantity
9.2310.09-BULK	■ BLACK	PACK OF 4
9.2310.10-BULK	■ RED	
9.2310.11-BULK	■ WHITE	
9.2310.12-BULK	■ BLUE	
9.2310.13-BULK	■ GREEN	
9.2310.14-BULK	■ YELLOW	
9.2310.15-BULK	■ AMBER	
9.2310.16-BULK	■ GREY	

Pack sizes of 50 available upon request.



P/N 9.2310.10-BULK P/N 9.2310.12-BULK P/N 9.2310.13-BULK P/N 9.2310.14-BULK P/N 9.2310.15-BULK P/N 9.2310.16-BULK

DuraLED® DT Marker and Signal Lamp Accessories



P/N 9.2073.09



P/N 4963-P

HOUSING	
9.2073.09	PACK OF 4

DT PLUG, WEDGE AND CONTACTS	
4960-P	2 POLE
4963-P	6 POLE



P/N 4960-P

EuroLED® Accessories

Spare covers or screw bosses for the EuroLED® range of lamps. One cover and two screw bosses are required per lamp.



P/N 9HD959027007



P/N 8HG959952012



P/N 9NH959028017



P/N 9HD959027017

P/N 8HG959952002

COVERS		
Part Numbers	Colour	Quantity
9HD959027007	■ BLACK	SINGLE
9HD959027017	■ WHITE	

SCREW BOSS	
9NH959028017	■ BLACK PACK OF 2

MOUNTING SPACER		
Part Numbers	Colour	Quantity
8HG959952002	■ BLACK	SINGLE
8HG959952012	■ WHITE	

MARKER AND SIGNAL

Part Numbers	
9.2394.08	FRAME
9.2394.09	15MM SPACER

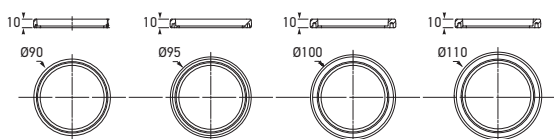
Mounting spacer allows lamps to be surface mounted with the cable exiting any side of the spacer, or through the centre.

LED Combination Trailer Lamp Accessories

To suit LED combination lamp P/Ns 2394 and 2395.



Part Numbers		Diameter
98069600		90MM O.D
98069620		95MM O.D
98069640		100MM O.D
98069660		110MM O.D



83mm Round Lamps - Mounting Rings

Mounting rings to suit 83mm round lamp range. Allows retro-fitting of lamp into existing applications with mounting holes larger than a diameter of 83mm.



MOUNTING GASKET BASE, SPACERS AND 1 1/4" SCREWS	
Part Number	Quantity
9.2361.08	SINGLE

Allows Jumbo-S lamps to be surface mounted.

Jumbo-S Accessories

Accessories for the Jumbo-S LED lamp range.



SCREW CAPS AND 1" SCREWS	
Part Number	Quantity
9.2361.09	SET OF 4

HOUSING - SINGLE, DOUBLE AND TRIPLE MODULE	
Part Numbers	
9.2041.09	SINGLE
9.2422.09	DOUBLE
9.2423.09	TRIPLE

Designline/Jumbo-S/Jumbo Accessories

Housings for the Designline/ Jumbo-S/ Jumbo lamp range.



Licence Plate Lamp Accessories

Mounting kit for licence plate lamp P/N 2559. Includes a housing, cover, screw bosses, screws and screw caps. One mounting kit is required per lamp.



MOUNTING KIT		
Part Numbers	Colour	Quantity
9.2559.09	■ BLACK	SINGLE
9.2559.19	■ WHITE	

Suits Part No. 2559, 2308, 2055 and all narrow rim LED courtesy lamps. P/N 9.2559.09 is included with every LED Licence Plate pack (display and bulk packs).

MOUNTING SPACER AND EXTENDED SCREW BOSSES		
9.2559.08	BLACK	SINGLE

Suits LED Licence Plate Lamp, Part No. 2559. Included in every LED Licence Plate Bulk Pack, Part No. 2559BULK.

LED LICENCE PLATE LAMP MOUNTING KIT		
8HG959647001	■ BLACK	SINGLE

Mounting Kit including housing, cover, spacer and extended screw bosses for installation of LED licence plate lamps according to ADR requirements. One kit required per lamp.

Surface Mount Strip Lamp - Screw Caps



SURFACE MOUNT STRIP LAMP SCREW CAPS		
Part Numbers	Colour	Quantity
9.1009.09	CHARCOAL	PACK OF 4
9.2652.09	■ WHITE	
9.1009.10	CHROME PLATED	

Marker and Courtesy Lamp Gaskets

Gaskets for narrow and wide rim LED courtesy lamps. Curved mount gasket (P/N 9GD959515207) is designed to suit 64mm (2.5") pipes. Flexibility allows this particular gasket to suit a variety of curve radii.



NARROW RIM (LAMP WIDTH 22MM)		
Part Numbers	Material	Quantity
9GD959515127	RUBBER	PACK OF 4
9GD959515207 (Curved mount)	RUBBER	



WIDE RIM (LAMP WIDTH 29MM)		
9GD959517007	CLOSE CELL FOAM	PACK OF 4

MARKER AND SIGNAL

NARROW RIM (LAMP WIDTH 26MM)		
Part Number		Quantity
9GD959155107	RUBBER	SINGLE

WIDE RIM (LAMP WIDTH 33MM)		
Part Number		Quantity
9GD959155507	CLOSE CELL FOAM	PACK OF 10

Strip Lamp Gaskets

Gaskets for narrow and wide rim strip lamps.



SPARE PLASTIC CAPS		
Part Numbers	Colour	Quantity
9HD959182027	■ RED	PACK OF 20
9HD959182017	■ AMBER	
9HD959182037	■ BLACK	
9HD959182007	■ CLEAR	

To suit narrow and wide rim LED courtesy, marker and strip lamps.

Plastic Screw Caps

Two screw caps required per lamp.



110MM ROUND LED - PLASTIC SCREW CAPS		
Part Numbers	Colour	Quantity
9.2365.10	■ RED	PACK OF 10
9.2165.10	■ AMBER	
9.2105CLR.10	■ CLEAR	

110mm Round LED - Plastic Screw Caps

Three screw caps required per lamp.



110MM ROUND - LENS GASKET	
Part Number	Quantity
9.2397.40	SINGLE

110mm Round - Lens Gasket





LED Safety DayLights™

Safety DayLights™ are signal lamps that significantly enhance the visibility of your vehicle during daylight hours to prevent vehicle crashes by 'accidental oversight'.





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HELLA LED SAFETY DAYLIGHTS™

BE SAFE BE SEEN

Failure to see another road user in time (or at all) is a contributing factor in over 50% of all daytime accidents. For daytime intersection accidents this increases to as much as 80%.

Source: The Safety Effects of Daytime Running Lights, SWOV, 1997

Why Install HELLA Safety DayLights™?

You might ask yourself "can't I just switch on my headlamps?", since the use of dipped beam headlamps during daylight hours has long been promoted as a Road Safety Initiative around the country.

Dipped beam headlamps are designed to effectively light up the road in front of the vehicle during darkness, whilst causing as little glare as possible to oncoming traffic.



Hence during daytime, dipped beam headlamps 'waste' most of their light directed to the road in front of the vehicle but provide very little as a signal to other road users in bright daylight. Using your Dipped Beam Headlamps during daylight hours has only a marginal added safety effect.

Safety DayLights™ on the other hand are designed to significantly enhance the conspicuity of your vehicle during daylight hours because precision optics direct all the light towards the other road users.

HELLA LED Safety DayLights™

Safety DayLights™ are forward facing signal lamps that significantly enhance the visibility of your vehicle during daylight hours to prevent vehicle crashes by 'accidental oversight'.

As road users we have all experienced the 'fright second' of a near miss by being overlooked by another car, van or truck.

Equally frightening is almost not noticing another vehicle approaching due to an inconspicuous vehicle colour, the low sun casting harsh shadows or sun strike.

Any single one of these 'fright seconds' has the potential to end in a tragic outcome and become a number in the road toll statistics.

Safety DayLights™ are a "never forget" safety enhancement. They automatically switch ON when the ignition is switched ON and automatically switch OFF when the headlamps are turned ON in order not to dazzle other road users at night.



Headlamps Off

Low Beam Headlamps

HELLA LED Safety DayLights™

Low Beam Headlamps



Designed to light the road at night without causing glare to other road users.

HELLA LED Safety DayLights™



Designed to increase the visibility (conspicuity) of your vehicle during daylight hours.



SETTING A STANDARD IN ROAD SAFETY

Australia's extensive roading network is used by millions every day. Statistically the risk of being harmed in a road accident is one of the highest severe injury risks we face every day.

Data from the Bureau of Infrastructure, Transport and Regional Economics [BITRE] shows that thousands of crashes occur each year resulting in injury and fatalities. In 2011 there were 1291 fatalities on our roads as well as \$9.61 Billion traffic related costs.

The economic cost of road accidents to Australia has been calculated at some 17.85 Billion Dollars in 2006*, the majority occurring during daylight hours when visibility and conspicuity should be at its peak.

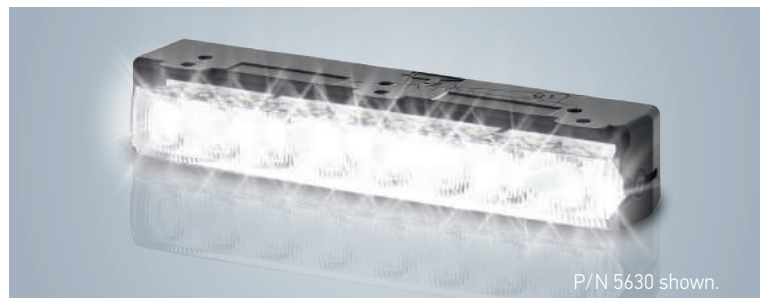
*source: Bureau of Infrastructure, Transport and Regional Economics [BITRE] Road crash costs in Australia 2006, Report 118, Canberra, November.

Worldwide Studies

The effectiveness of Safety DayLights™ (DRLs) has been studied extensively worldwide and their mandatory use being adopted into legislation in most European countries.

Benefits of LED Safety DayLights™

- Low power consumption.
- Advanced UV resistant material.
- 5 year warranty.
- Approved for use in Australia.



SAFETY DAYLIGHTS™ SMART CONTROLLER DESIGNED TO SIMPLIFY INSTALLATION

HELLA's Safety DayLights™ Smart Controller is designed to simplify the installation of Safety DayLights™ by eliminating the need to connect the lamp, or changeover relay, to ignition terminal 15. The vehicle's ignition feed is typically used as a signal to turn Safety DayLights™ ON. Correctly identifying terminal 15 (Ignition) in the engine bay can be a difficult task on some vehicles, requiring specialised tools and in some cases the only solution is to route the wiring back through the fire wall into the vehicle cabin. This procedure can greatly increase the time and cost it takes to install Safety DayLights™. It can also be a daunting experience for the DIY-er not familiar with the electronic complexity of the modern vehicle.

The Safety DayLights™ Smart Controller reduces the installation complexity as it is directly connected to the positive terminal of the battery where it will sense that the vehicle engine has been activated.

The Safety DayLights™ Smart Controller uses advanced electronics that constantly monitor the voltage of the battery and other tell tale signs that the engine has been started. It will automatically switch the Safety DayLights™ ON. It will deactivate the Safety DayLights™ when the headlamps are turned ON or the engine is turned OFF (after a small delay).

MINIMISING ENVIRONMENTAL IMPACT

HELLA LED Safety DayLights™ are a durable, environmentally-friendly investment into road safety.

Energy Efficiency

HELLA LED Safety DayLights™ use less than 5 watts per pair, equating to 95% less energy than the Dipped Headlamps of your vehicle.

Q: Why is a safer light using so much less energy?

A: LED Safety DayLights™ are designed to direct light at other road users and not onto the road in front of the vehicle as Dipped Beam Headlamps do.

Q: Will this save me petrol compared to using my headlamps?

A: Studies have shown that the average family car will save as much as 0.2 litres of petrol per 100km. For the entire Australian fleet this equates to a reduced environmental impact of over 500,000 tons per year of CO₂ emissions.

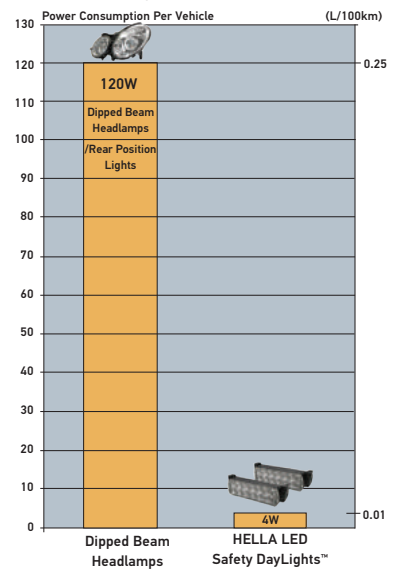
Q: What about my headlamp globes?

A: Using highly effective Safety DayLights™ instead of your Dipped Beam Headlamps, will of course also extend the life of your valuable headlamp globes.

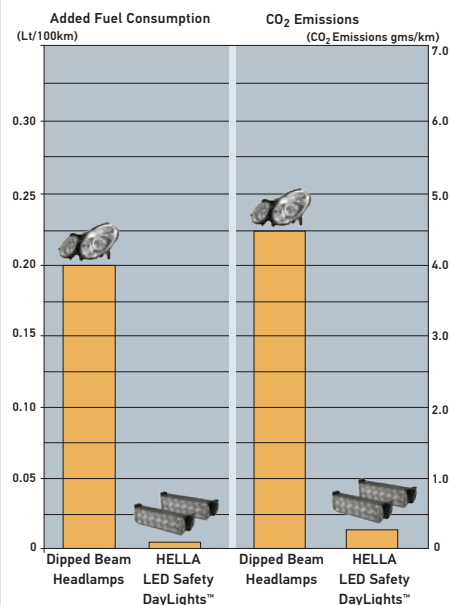


Dipped Headlamps Versus High Efficacy LED Safety DayLights™

Power Consumption



Power and Fuel Consumption and CO₂ Emissions

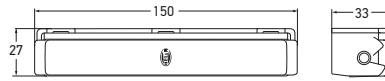


**LED Safety DayLights™ Kit
- Easy-Fit**

Forward Facing Signal Lamps, designed to be mounted on vehicles with flat fronts, or on motorbikes. The lamps are an Easy-Fit installation, usually requiring no extra parts. Once the wiring is complete and the bracket is fitted, the LED lamp easily clips into place and installation is complete.



P/N 5636BL



Part Numbers	5636	12 VOLT	
	5636BL (Blister Pack)		
	5636-24V		
Mounting	Suitable for horizontal mounting.		
Power Consumption	2W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Spare Parts	1013	Single lamp 12V	
	1013-24V	Single lamp 24V	
Lens Material	High impact acrylic.		
Compliance	ADR 76/00	E24 5875	ECE R87/00
Kit Contents	5636/...-24V 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet	5636-BL 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Smart controller relay 1 x Terminal kit 1 x Instruction sheet	

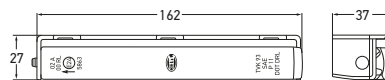
See page 114 for front position relay option.

LED Safety DayLights™ Kit - 15°

A lens angle of 15 degrees allows installation as close as possible to the corners of a modern motor vehicle. These lamps were designed to fit the curved bumpers of modern vehicles to give the look of Original Equipment fitment. The lamps have extremely low power consumption at 2W per lamp and high-impact acrylic lenses to protect against impact damage.

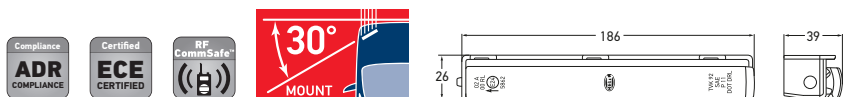


P/N 5630BL



Part Numbers	5630	12 VOLT			
	5630BL (Blister Pack)				
	5630-24V			24 VOLT	
	5630-24VBL (Blister Pack)				
Mounting	Suitable for horizontal mounting.				
Power Consumption	2W				
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning).				
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.				
Lens Material	High impact acrylic.				
Compliance	ADR 76/00	E24 5863	ECE R87/00		
Kit Contents	5630/...-24V 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet	5630-BL/...-24VBL 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Smart controller relay 1 x Terminal kit 1 x Instruction sheet			

See page 114 for front position relay option.



Part Numbers	5631	12 VOLT
	5631BL (Blister Pack)	
	5631-24V	
Mounting	Suitable for horizontal mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning).	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	High impact acrylic.	
Compliance	ADR 76/00	E24 5862 ECE R87/00
Kit Contents	5631/...-24V	5631-BL
	2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet	2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Smart controller relay 1 x Terminal kit 1 x Instruction sheet

See page 114 for front position relay option.

LED Safety DayLights™ Kit - 30°

A lens angle of 30 degrees allows installation as close as possible to the corners of a modern motor vehicle. These lamps were designed to fit the curved bumpers of modern vehicles to give the look of Original Equipment fitment. The lamps have extremely low power consumption at 2W per lamp and high-impact acrylic lenses to protect against impact damage.



P/N 5631BL

SAFETY DAYLIGHTS™

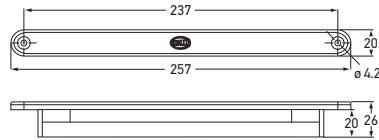


**BE SAFE
BE SEEN**

**HELLA LED
SAFETY DAYLIGHTS™**

**LED Safety DayLights™ Kit
- Recess Mount**

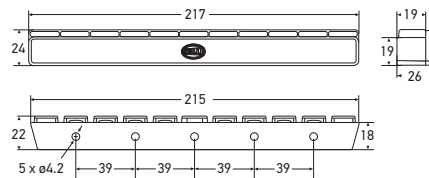
Recess Mount Strip Lamp, flush mounted for a professional finish. Features low power consumption, reverse polarity protection, and a durable Grilamid® lens to protect against impact damage.



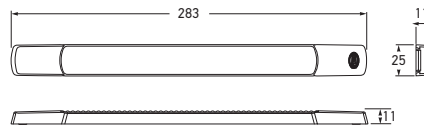
Part Numbers	5618	12 VOLT
	5618-24V	24 VOLT
Mounting	Two hole recess mount. Suitable for horizontal mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of multi-core cable.	
Spare Parts	1005 1005-24V	Single lamp 12V Single lamp 24V
Lens Material	Grilamid®	
Compliance	ADR 76/00 E24 0001 ECE R87/00	
Kit Contents	2 x LED Safety DayLights™ 4 x Screw caps and mounting screws 1 x Changeover relay 1 x Instruction sheet	

**LED Safety DayLights™
- Compact Mount**

Strip Lamp which clips into a separate mounting bracket for ease of installation. This lamp is ECE certified and is supplied with a mounting bracket and screws. The lens is made of durable Grilamid® to protect against impact damage, and the lamps feature reverse polarity protection.



Part Numbers	1008	12 VOLT
	1008-24V	24 VOLT
Mounting	Suitable for horizontal mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Grilamid®	
Compliance	ADR 76/00 E24 0001 ECE R87/00	



Part Numbers	5619 (Horizontal mount)	12 VOLT
	5619-24V (Horizontal mount)	24 VOLT
	5619V (Vertical mount)	12 VOLT
	5619V-24V (Vertical mount)	24 VOLT

Power Consumption 3W

Protection Reverse polarity protection.
IP 6K7 (Protection against dust and temporary water immersion)
IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)

Cable Length Pre-wired with 2.5m of sheathed multi-core cable.

Spare Parts	1009	Single lamp 12V (Horizontal mount)
	1009-24V	Single lamp 24V (Horizontal mount)
	1009V	Single lamp 12V (Vertical mount)
	1009V-24V	Single lamp 24V (Vertical mount)
	9.2652.09	White screw caps (Pack of 4)
	9.1009.09	Charcoal screw caps (Pack of 4)
	9.1009.10	Chrome plated screw caps (Pack of 4)

Lens Material Grilamid®

Compliance ADR 76/00 E24 5869 ECE R87/00

Kit Contents 2 x LED Safety DayLights™
4 x Mounting screws
4 x Screw caps
1 x Changeover relay
1 x Instruction sheet

See page 114 for front position relay option.

**LED Safety DayLights™ Kit
- Surface Mount**

Surface Mount LED Safety DayLights™ designed to fit flat-fronted vehicles. Comes either as a single lamp, or as a kit. The lamp is ADR compliant and features a Grilamid® lens to protect against impact damage.

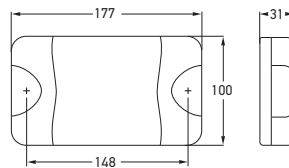


Ultra slim height of only 11mm. Lamp shown active.

SAFETY DAYLIGHTS™

DuraLED® Safety DayLights™

LED DuraLED® Safety DayLights™ for trucks, commercial vehicles and buses.



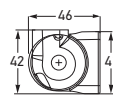
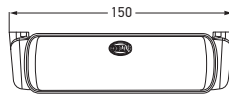
Part Number	1003
Mounting	Two hole recess mount with mounting bushes supplied. Suitable for horizontal mounting.
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts.
Power Consumption	3W
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Lens Material	Grilamid®
Compliance	ADR 76/00
See page 94 for DuraLED® accessories.	

LED Safety DayLights™ Kit - Rectangular

Rectangular Shaped Ultra Light Lamps offering maximum visibility in road traffic during the day. Features lightweight housing, universal mounting bracket and ultra-durable Grilamid® nylon lens for extreme impact, UV and chemical resistance. Easy wiring requiring only 3 connections, earth (-), ignition (+) and position lamps (+).



P/N 5617
Wiring harness and super seal connectors.



Part Numbers	5617			
	5617OE			
Mounting	Suitable for horizontal mounting.			
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.			
Power Consumption	<2W each			
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Spare Part	1004	Single lamp (with 0.5m of multi-core cable)		
Cable Length	5617	Pre-wired with 0.5m of multi-core cable.		
	5617-OE	Pre-wired with 2.5m of multi-core cable.		
Lens Material	Grilamid®			
Compliance	ADR 76/00	E24 0002	ECE R87/00	
Kit Contents	P/N 5617 kit contains: 2 x LED Safety DayLights™ 1 x Professional wiring harness and super seal connectors 4 x Mounting brackets and fasteners 1 x Instruction sheet		P/N 5617OE kit contains: 2 x LED Safety DayLights™ with 2.5m sheathed multi-core cable. 4 x Mounting brackets and fasteners 1 x Instruction sheet	



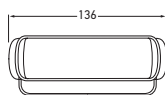
P/N 5617



P/N 5617OE

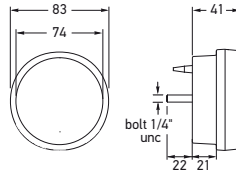
LED Safety DayLights™ Kit -Stainless Steel Bracket

Ultra-light, LED Safety DayLights™ equipped with 12 high-performance LEDs offering maximum visibility in road traffic during the day. Features lightweight housing, sturdy stainless steel mounting bracket and ultra-durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off.



Part Number	5617OESS		
Mounting	Upright or pendant. Stainless steel mounting brackets included.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	<2W each		
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of multi-core cable.		
Lens Material	Grilamid®		
Compliance	ADR 76/00	E24 0002	ECE R87/00
Kit Contents	2 x LED Safety DayLights™ with 2.5m sheathed multi-core cable. 2 x Universal stainless steel mounting brackets 1 x Instruction sheet		

LED SAFETY DAYLIGHTS™



Part Numbers	1006	12 VOLT
	1007-24V (Includes Front Position Lamp)	24 VOLT
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Power Consumption	Safety DayLights™: 4W Front position: 1W (P/N 1007-24V only)	
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Grilamid®	
Compliance	ADR 49/00 (1007-24V) ECE R7/02 (1007-24V)	ADR 76/00 E24 5854 ECE R87/00

See page 97 for mounting accessories.

83mm Round LED Safety DayLights™

This LED lamp features an integrated Safety DayLight™ and front position function. The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a Safety DayLight™.



83MM LAMP FUNCTIONS	
LED Safety DayLights™	Front position (P/N 1007-24V only)

SAFETY DAYLIGHTS™

Part Numbers	2108-GMD	12 VOLT
	2108-GMD24V	24 VOLT
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Power Consumption	P/N 2108-GMD	P/N 2108-GMD24V
	Safety DayLights™: 3W	4W
	Front position: 1W	1W
	Front indicator: 4W	4W
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Grilamid®	
Compliance	ADR 6/00: Cat 1 ECE R6/01	ADR 49/00 ECE R7/02 ADR 76/00 ECE R87/00 E24 5854

See page 97 for mounting accessories.

83mm Round LED Safety DayLights™/Front Position/ Front Direction Indicator Lamp

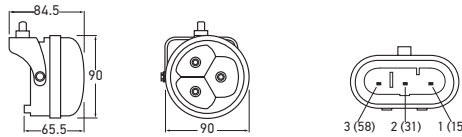
This LED Combination Lamp features an integrated Safety DayLight™, front position and front direction indicator function. The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a Safety DayLight™. This lamp eliminates the need for installation of multiple lamps.



83MM LAMP FUNCTIONS		
LED Safety DayLights™	Front position	Front direction indicator

LED Safety DayLights™ Kit - Round

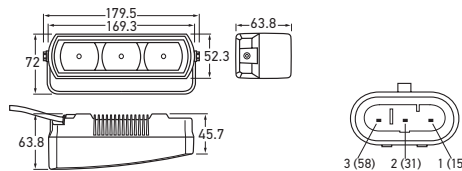
Universal Round Safety DayLights™ equipped with 3 x high-performance LEDs and high-sheen metallised free-form (FF) reflectors for a superior signal pattern and maximum visibility to oncoming traffic during the day. Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off.



Part Number	5607		
Mounting	Upright or Pendant. Universal mounting bracket included.		
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts.		
Power Consumption	12V	<5W (single lamp)	
	24V	<11W (single lamp)	
Protection	Reverse polarity and transient spike circuit protection.		
Cable Length	Pre-wired with 0.45m of sheathed multi-core cable.		
Spare Parts	5607LH	Round LED Safety DayLight™ LH (Left hand side)	
	5607RH	Round LED Safety DayLight™ RH (Right hand side)	
Lens Material	Polycarbonate		
Compliance	(E1) 2372	ECE R87/00	ADR 76/00
Kit Contents	2 x LED Safety DayLights™ 1 x Pre-assembled professional harness 1 x Relay 1 x Waterproof AMP plug		

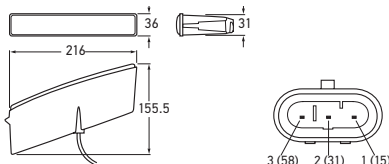
**LED Safety DayLights™ Kit
- Rectangular**

Universal Rectangular Safety DayLights™ equipped with 3 x high-performance LEDs and high-sheen metallised free-form (FF) reflectors for a superior signal pattern and maximum visibility to oncoming traffic during the day. Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off.



Part Number	5608		
Mounting	Upright or Pendant. Universal mounting bracket included.		
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts.		
Power Consumption	12V	<5W (single lamp)	
	24V	<11W (single lamp)	
Protection	Reverse polarity and transient spike circuit protection.		
Cable Length	Pre-wired with 0.45m of sheathed multi-core cable.		
Spare Part	5608LRH	Rectangular LED Safety DayLight™	
Lens Material	Polycarbonate		
Compliance	(E1) 2344	ECE R87/00	ADR 76/00
Kit Contents	2 x LED Safety DayLights™ 1 x Pre-assembled professional harness 1 x Relay 1 x Waterproof AMP plug		

LED SAFETY DAYLIGHTS™



Part Numbers	5610	12 VOLT
	5610LH-24V (Left Hand Side)	24 VOLT
	5610RH-24V (Right Hand Side)	
Mounting	Flush or Screw Mount (side retaining springs and screws included)	
Power Consumption	7W (single lamp)	
Protection	Reverse polarity and transient spike circuit protection.	
Cable Length	Pre-wired with 0.45m of sheathed multi-core cable.	
Spare Parts	5610LH LEDayLine™ Safety DayLight™ – LH (Left hand side) 12V DC 5610RH LEDayLine™ Safety DayLight™ – RH (Right hand side) 12V DC	
Lens Material	Acrylic lens	
Compliance	E 2578 ECE R87/00 ADR 76/00	
Kit Contents	2 x LEDayLine™ Safety DayLights™ 1 x Pre-assembled professional wiring harness 1 x Relay 1 x Waterproof AMP super seal plug All parts required for installation	

LEDayLine™ Safety DayLights™

Universal LED Safety DayLight™ equipped with five high-performance LEDs and individual computer-calculated, faceted reflectors and clear, pattern-free acrylic lens. Features distinct rod-shaped matrix design for innovative front-end styling and provides optimum light distribution for maximum visibility in road traffic during the day. Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off. Also functions as a position light with dimmed light power (automatic switch over).



SAFETY DAYLIGHTS™



Safety DayLights™ Smart Controller

This Smart Controller is designed to simplify the installation of HELLA's LED Safety DayLights™ range by eliminating the need to wire the lamp, or changeover relay to ignition terminal 15.

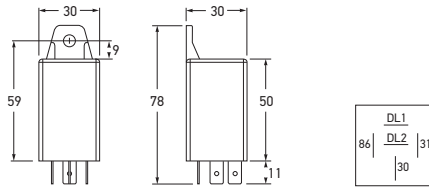
The Safety DayLights™ Smart Controller can be wired directly to the positive terminal of the battery, which saves the difficult and often time consuming task of finding the ignition feed.

The Smart Controller monitors the voltage supply from the battery and will automatically switch the Safety DayLights™ on when the engine is started, and automatically switch them off when the headlamps are activated, or the engine is turned off.

*Advanced version with vibration monitor for installation in vehicles with fuel saving alternators.

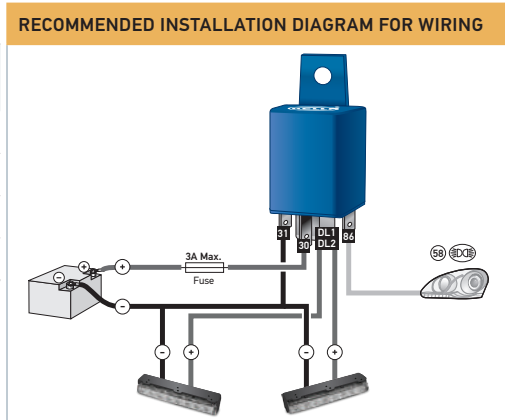


P/N 3091 (Standard)



Part Numbers	3090 (Advanced*)	
	3090BULK (Advanced*)	Pack of 20
	3091 (Standard)	
	3091BULK (Standard)	Pack of 20
Voltage	Multivolt™, suitable for 12 and 24 volt systems.	
Maximum Continuous Load	20W	
To Suit	HELLA LED Safety DayLights™ range.	
Features a Safety DayLights™ OFF delay of approximately 10 seconds.		

WIRING SPECIFICATIONS	
Terminal Number	Connect to
30	Battery (+)
31	Earth return (-)
86	Front position or headlamps (+)
DL1 & DL2	Safety DayLights™ (+)

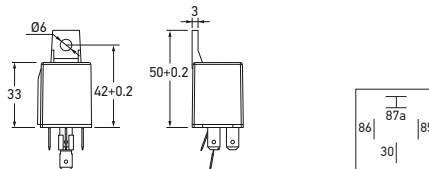


Dual Function Safety DayLights™ Controller

This Controller is designed to turn your HELLA Safety DayLights™ into front position lamps at night. The dual function controller is connected and activated by the headlamp of the vehicle.

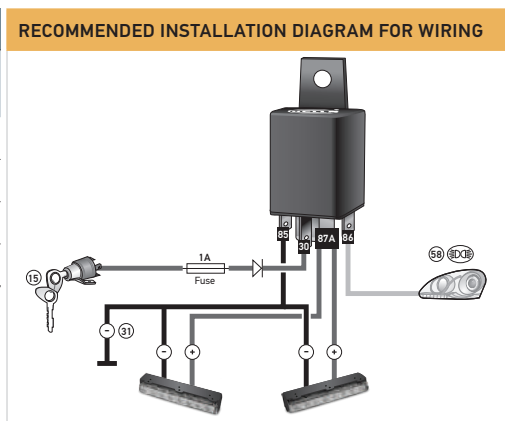
The dual function controller reduces the current to the Safety DayLights™ thus turning them into road legal* front position lamps. Only one controller is required for a pair of HELLA Safety DayLights™.

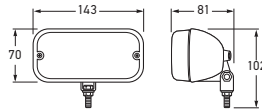
* Please note legally required spacing of front position lamps and only one pair of front position lamps is legally permitted.



Part Numbers	9.5630.03	12 VOLT
	9.5636.03	
	9.5630.04	24 VOLT
	9.5636.04	
To Suit	P/N 9.5630.03 P/N 9.5636.03 P/N 9.5630.04 P/N 9.5636.04	P/Ns 1009, 5619, 5630, 5631 P/N 5636 P/Ns 1009-24V, 5619-24V, 5630-24V, 5631-24V P/N 5636-24V

WIRING SPECIFICATIONS	
Terminal Number	Connect to
30	Ignition (+)
85	Earth return (-)
86	Front position or headlamps (+)
87A	Safety DayLights™ (+)

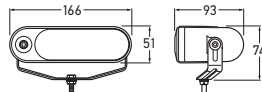




Part Number	1000		
Mounting	Upright or Pendant		
Voltage	Globes to be ordered separately		
Globes to suit	12V	R1221	
	24V	R2421	
Compliance	Ⓔ17 8701	ECE R87/00	ADR 76/00

Incandescent Daytime Running Lamp

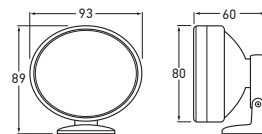
Designed to increase visibility to oncoming traffic during the day.



Part Number	5603	12 VOLT
Mounting	Upright or Pendant. Universal mounting bracket included.	
Voltage	12V (Globes included)	
Power Consumption	6W	
Globes to suit	12V H6W (W126BL2)	
Spare Parts	5603L	12V Daytime Running Lamp - LH (Left hand side)
	5603R	12V Daytime Running Lamp - RH (Right hand side)
Compliance	Ⓔ1 1032	ECE R87/00 ADR 76/00
Kit Contents	2 x Handed Daytime Running Lamps 2 x Mounting Brackets 2 x 6W Halogen Globes 1 x Cable Harness 1 x Relay for fully automatic switching and detailed mounting instructions	

Incandescent Daytime Running Lamp Kit

Automatic Daytime Running Lamp (DRL) offering additional visibility for increased road safety during the day. Automatically switches on when the key is turned in the ignition and switches off when the main headlamps are activated. Suitable for many different vehicle types.



Part Numbers	5609	12 VOLT
	5609-24V	24 VOLT
Mounting	Surface Mount. Universal mounting bracket included (suitable for screw fastening).	
Power Consumption	16W (single lamp)	
Cable Length	Pre-wired with 0.3m of sheathed multi-core cable.	
Spare Part	9.5609.01	Lens and reflector assembly (12V)
Compliance	Ⓔ1 1722	ECE R87/00 ADR 76/00
Kit Contents	2 x Daytime Running Lamps 1 x Pre-assembled professional wiring harness All parts required for installation	

Incandescent Daytime Running Lamp Kit - Surface Mount

Universal, Compact Daytime Running Lamp (DRL) equipped with high-performance long-life globe and high-precision free-form (FF) reflector for increased visibility to oncoming traffic during the day. Switches on automatically when the engine is started and switches off when the main headlamps are activated or the engine is turned off. Lamp is lightweight for universal mounting on front aprons.





Headlamps and Inserts

HELLA has manufactured headlamp systems for more than 100 years. The durability and reliability of HELLA products has made HELLA a world leader in headlamp technology.





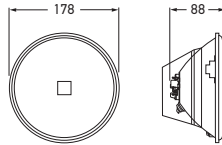
Contents

Headlamps and Inserts

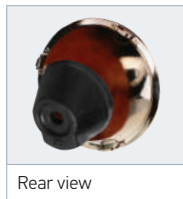
Semi Sealed Headlamps and Housings - 7" Round	118-120
Semi Sealed Headlamps - 5 ¾" Round	121-123
Semi Sealed Headlamps and Housings - Rectangular	124-125
Universal Headlamps	126-127
5 ¾" Conventional Sealed Beams	128
4 ½" Conventional Sealed Beams	129-130

**178mm H4 Halogen
High/Low Beam Insert**

Semi-sealed Headlamp with sealing cap.



Part Number	1056		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
Compliance	ADR 46/00		
Where front position lamp is required, use P/N 1058.			



**178mm H4 Halogen
High/Low Beam Insert**

Semi-sealed Headlamp with front position lamp globe holder and sealing boot.



Part Number	1058		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	

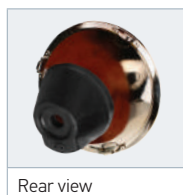


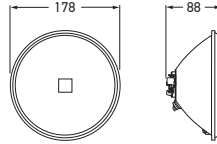
**178mm H4 Halogen High/Low
Beam Insert - Hardened Glass**

High Performance Halogen Headlamp Insert fitted with extremely robust hardened glass lens providing maximum resistance when subjected to high operating temperatures and thermal shock. Ideal for 24 volt and high wattage globe applications. Supplied complete with sealing boot and front position lamp globe holder assembly.



Part Number	1058HD		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	





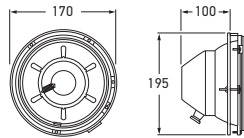
178mm H3 Halogen Driving Lamp Insert

Suitable for use as High Beam Headlamp in most 178mm round headlamp carriers (eg. P/N 1016).



Part Number	9.1358.01	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	YC1255, YC12100 YC2470, YC24100
Compliance	ADR 46/00	
3rd Edition ADR compliance applies only to 55W (YC1255) and 70W (YC2470) globes. Globes to be ordered separately.		

HEADLAMPS & INSERTS



178mm Headlamp Housing

Headlamp Housing and Chrome Rim for halogen or conventional sealed beams and inserts 178mm in diameter. Fully sealed steel cowl, complete with adjusting mechanism for vertical and horizontal alignment, sealing gasket, stainless steel retaining rim and 3 pin wiring harness with separate park lamp connection. Ideal for truck, bus or body builders. Suits Mercedes, Kenworth, Mack, White etc. Outer chrome rim (P/N 1017) to suit Headlamp Housing P/N 1016.

Part Numbers	1016	HEADLAMP HOUSING
	1017	CHROME RIM



P/N 1016 Headlamp Housing

P/N 1017 Chrome Rim

**178mm H4 Halogen
High/Low Beam Conversion Kit**

High/low Beam Headlamp Inserts with front position lamp aperture and sealing boot. Suitable for single headlamp systems.



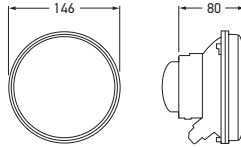
Part Number	5604	12 VOLT
Power Consumption	High Beam: 60W Low Beam: 55W	
Globes to Suit	12V: XD1260/55 24V: XD2475/70	
Spare Part	1056 Headlamp insert	
Compliance	ADR 46/00	
Kit Contents	2 x Headlamp Inserts 2 x Sealing Boots 2 x 12V Globes	
Front position globe holder not included. Where front position lamp is required, use P/N 1058.		

**178mm H4 100W Halogen
High/Low Beam Conversion Kit**

High/low Beam Headlamp Inserts with front position lamp aperture and sealing boot. Suitable for single headlamp systems.



Part Number	5604/100	12 VOLT
Power Consumption	High Beam: 100W Low Beam: 55W	
Globes to Suit	12V: XD12100/55 24V: XD24100/90	
Spare Part	1056 Headlamp Insert	
Kit Contents	2 x Headlamp Inserts 2 x Sealing Boots 2 x 12V Globes	
Front position globe holder not included. Where front position lamp is required, use P/N 1058.		



**146mm H1 Halogen
High Beam Insert**

Semi-sealed Headlamp, for high beam section of dual headlamp systems with sealing boot.

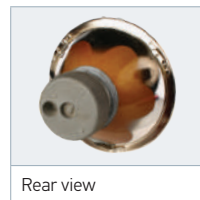
Part Number	1053		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V C1255	24V C2470
Compliance	ADR 46/00		
Earth terminal is a 'Post' (bullet) type connection.			



**146mm H1 Halogen
Low Beam Insert**

Low Beam Insert with front position lamp globe holder and sealing boot. Suitable for dual headlamp systems.

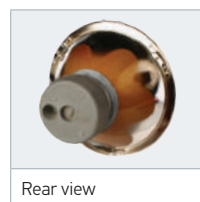
Part Number	1054		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V C1255	24V C2470
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	



**146mm H1 Halogen
Long Range Driving Insert**

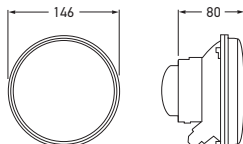
Semi-sealed Headlamp, for high beam section of dual headlamp systems with sealing boot.

Part Number	1040		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V C1255, C12100	24V C2470, C24100



146mm H4 Halogen High/Low Beam Insert

Semi-sealed Headlamp with front position lamp globe holder and sealing boot. Suitable for dual headlamp systems.



Part Number	1055		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	



Rear view

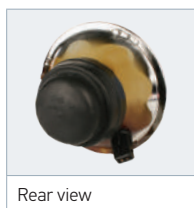
HEADLAMPS & INSERTS

146mm H4 Halogen High/Low Beam Insert - Hardened Glass

High Performance Halogen Headlamp Insert fitted with extremely robust hardened glass lens, providing maximum resistance when subjected to high operating temperatures and thermal shock. Ideal for 24 volt and high wattage globe applications. Supplied complete with sealing boot and front position lamp globe holder assembly.



Part Number	1055HD		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	



Rear view

146mm H1 Halogen High Beam Conversion Kit

High Beam Headlamp Inserts suitable for dual headlamp systems.



Part Number	5605	12 VOLT
Power Consumption	55W	
Globe to Suit	12V: 24V:	C1255 C2470
Spare Part	1053	Headlamp insert
Compliance	ADR 46/00	
Kit Contents	2 x Headlamp Inserts 2 x Globes and Installation Equipment	



Part Number	5606	12 VOLT
Power Consumption	55W	
Globes to Suit	Headlamp:	12V C1255
	Front position:	24V C2470 HL124 HL244
Spare Part	1054	Headlamp Insert
Compliance	ADR 46/00	ADR 49/00
Kit Contents	2 x Headlamp Inserts 2 x Sealing Boots (High temperature) 2 x Globes and Installation Equipment	
Insert must be installed using the supplied high-temperature wiring and sealing cap. All loom terminations must be made outside the sealing cap and the use of non-standard wiring may result in discolouration, overheating and potential safety hazard.		

146mm H1 Halogen Low Beam Conversion Kit

Low Beam Headlamp Inserts with front position lamp globe holder and sealing boot. Suitable for dual headlamp systems.



146mm 100W H1 Halogen Long Range Beam Conversion Kit



Part Number	5612/100	12 VOLT
Power Consumption	100W	
Globe to Suit	12V:	C12100
	24V:	C24100
Spare Part	1040	Headlamp insert
Kit Contents	2 x Headlamp Inserts 2 x Globes and Installation Equipment	



Part Number	5611	12 VOLT
Power Consumption	High Beam:	60W
	Low Beam:	55W
Globe to Suit	Headlamp:	12V XD1260/55
	Front position:	24V XD2475/70 HL124 HL244
Spare Part	1055	Headlamp Insert
Compliance	ADR 46/00	ADR 49/00
Kit Contents	2 x Headlamp Inserts with Globe Holder 2 x Sealing Boots 4 x Globes	

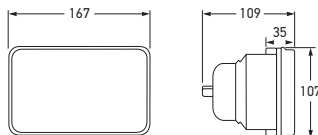
146mm H4 Halogen High/Low Conversion Beam Kit

High/low Beam Headlamp Inserts with front position lamp globe holder and sealing boot. Suitable for dual headlamp systems.



165 x 100mm H1 Halogen High Beam Insert

Semi-sealed Headlamp with sealing cap.



Part Number	1041		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V C1255	24V C2470
Compliance	ADR 46/00		



Rear view

165 x 100mm H4 Halogen High/Low Beam Insert

Semi-sealed Headlamp with sealing boot and wiring adaptor.



Part Number	1042		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
Compliance	ADR 46/00		



Rear view

165 x 100mm H4 Halogen High/Low Beam Insert

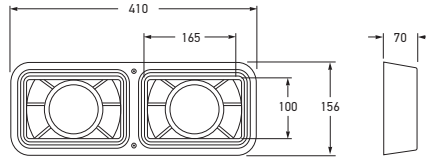
Semi-sealed Headlamp and front position lamp with sealing boot.



Part Number	1044		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	



Rear view



Twin Rectangular Headlamp Housing

For most 165 x 100mm Rectangular Headlamp Units. Chrome plated outer rim. Complete with adjusting mechanisms for vertical/horizontal alignment and wiring loom. Ideal for truck, bus or body builders.

Part Number	1025	
Spare Part	9.1025.07	Chrome Plated Outer Rim



HEADLAMPS & INSERTS



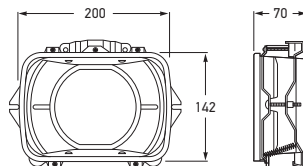
200 x 142mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with front position lamp globe holder.

Part Number	1043		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	



Rear view



Rectangular Headlamp Housing

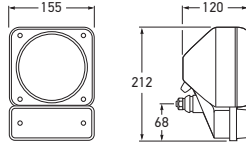
Suits 200 x 142mm Rectangular Headlamp Units (P/N 1043). Ideal for truck, bus or body builders.

Part Number	1024	
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Headlamp/Front Direction Indicator/Front Position Lamp

Housing made of black impact and chemical resistant material. Suitable for 146mm (5 3/4") H4 headlamp inserts.

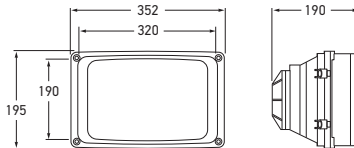


Part Number	1001		
Mounting	Suitable for horizontal and vertical mounting.		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V	24V	
Dipped/Main beam:	XD1260/55	XD2475/70	
Indicator:	R1221	R2421	
Front position:	HL124	HL244	
Spare Parts	1055 9.1001.01	Headlamp Insert Lens - Indicator	
Compliance	ADR 6/00: Cat 1	ADR 46/00	ADR 49/00

HEADLAMPS & INSERTS

H4 Halogen High/Low Beam Headlamp Assembly

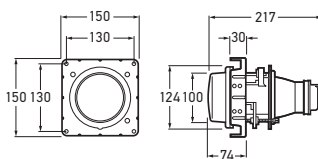
Lamp unit lens dimensions 352 x 195mm, complete with mounting frame and adjusting mechanisms for vertical and horizontal alignment. Fully enclosed housing with removable rear sealing cap for globe replacement access. Ideal for truck, bus or body builders.



Part Number	1027		
Mounting	Simple four point mounting.		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V	24V	
Headlamp:	XD1260/55	XD2475/70	
Front position:	HL124	HL244	
Spare Parts	9.1027.01 9.1027.02 9.1027.03 9.1027.04	Clear Lens Reflector Lens Gasket Sealing Cap	
Compliance	ADR 46/00	ADR 49/00	

DE H1 Low Beam Headlamp Assembly

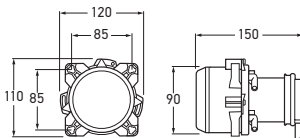
Compact DE H1 Low Beam Headlamp Assembly with 100mm light aperture. Supplied with protective rubber sealing cap.



Part Number	1028		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V 24V	C1255 C2470	
Spare Part	9.1028.07	Rubber Protective Cap	
Compliance	ADR 46/00		



HEADLAMPS AND INSERTS



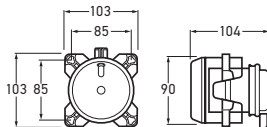
DE H7 Low Beam Headlamp Assembly

Compact DE H7 Low Beam Headlamp Assembly with 90mm light aperture. Supplied with protective rubber sealing cap.

Part Number	1029-12V	12 VOLT
Globes to Suit	12V 24V	CA1255 (Included) CA2470
Spare Parts	9.1029.07 9.1029.09	Rubber Protective Cap Supporting Frame
Compliance	ADR 46/00	



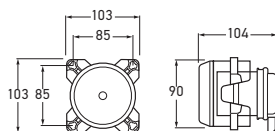
HEADLAMPS & INSERTS



FF H7 Main Beam Headlamp Assembly with Position Lamp

Compact FF H7 Main (High) Beam Headlamp Assembly with 90mm light aperture and inbuilt position lamp. Supplied with protective rubber sealing cap and position lamp connector set.

Part Numbers	1030-12V	12 VOLT	
	1030-24V	24 VOLT	
Globes to Suit	Headlamp: Front position:	12V CA1255 HL124	24V CA2470 (Included) HL244 (Included)
Spare Parts	9.1029.07 9.1029.08 9.1029.09	Rubber Protective Cap Position lamp connector set Supporting Frame	
Compliance	ADR 46/00	ADR 49/00	



FF H7 Main Beam Headlamp Assembly

Compact FF H7 Main Beam Headlamp Assembly with 90mm light aperture. Supplied with protective rubber sealing cap.

Part Number	1031-24V	24 VOLT
Globes to Suit	12V 24V	CA1255 CA2470 (Included)
Spare Parts	9.1029.07 9.1029.09	Rubber Protective Cap Supporting Frame
Compliance	ADR 46/00	



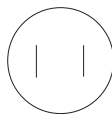
SEALED BEAM CHART BY DIMENSION

146MM (5 3/4")				114MM (4 1/2")			
Part Numbers	Voltage/Wattage	Description	Trade No.	Part Numbers	Voltage/Wattage	Description	Trade No.
1078	12V-60W	Flood	4478	1082	12V-60W	Flood	4466
1094	12V-100W	Long range	4537	1084	12V-30W	Spot	4405
1096	24V-60W	Flood	4578	1086	12V-35W	Fog	4415
				1087	12V-30W	Spot	4416
				1089	12V-100W	Spot - long range	4509
				1091	6V-30W	Spot	4515
				1098	12V-40/40W	High/low	4440

HEADLAMPS & INSERTS

146mm Flood Lamp Beam

Flood Lamp Beam to suit construction and industrial machinery.

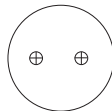


2 contact lugs

Part Number	1078
Trade Part No.	4478
Voltage	12V
Power Consumption	60W

146mm Long Range Beam

Search Lamp/Work Lamp Beam.

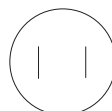


2 screw terminals

Part Number	1094
Trade Part No.	4537
Voltage	12V
Power Consumption	100W

146mm Flood Lamp Beam

Flood Lamp Beam to suit construction and industrial machinery.

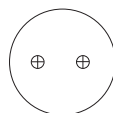


2 contact lugs

Part Number	1096
Trade Part No.	4578
Voltage	24V
Power Consumption	60W

114mm Flood Lamp Beam

Flood Lamp Beam to suit construction and industrial machinery.

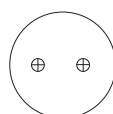


2 screw terminals

Part Number	1082
Trade Part No.	4466
Voltage	12V
Power Consumption	60W

**114mm Spot Lamp Beam**

Spot Lamp Beam suitable for automotive applications.

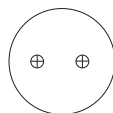


2 screw terminals

Part Number	1084
Trade Part No.	4405
Voltage	12V
Power Consumption	30W

**114mm Fog Lamp Beam**

Fog Lamp Beam suitable for automotive applications.

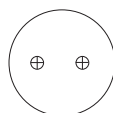


2 screw terminals

Part Number	1086
Trade Part No.	4415
Voltage	12V
Power Consumption	35W

**114mm Spot Lamp Beam**

Spot Lamp Beam to suit hand held spot lamp P/N 1521 and automotive applications.



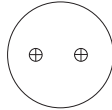
2 screw terminals

Part Number	1087
Trade Part No.	4416
Voltage	12V
Power Consumption	30W



114mm Spot Lamp/Long Range Beam

Spot Lamp Beam to suit hand held spot lamp P/N 1520.

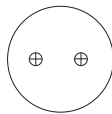


2 screw terminals

Part Number	1089
Trade Part No.	4509
Voltage	12V
Power Consumption	100W

114mm Spot Lamp Beam

Spot Lamp Beam suitable for automotive applications.



2 screw terminals

Part Number	1091
Trade Part No.	4515
Voltage	6V
Power Consumption	30W

114mm Spot High/Low Beam

High/Low Beam to suit tractor and automotive applications.



3 contact lugs

Part Number	1098
Trade Part No.	4440
Voltage	12V
Power Consumption	High beam: 40W Low beam: 40W

Sealed Beam Adaptor

Sealed Beam Adaptor with front position lamp globe holder and snap-lock cable connection.



Part Number	4972
Globes to Suit	6V HL64 12V HL124 24V HL244

ENHANCE YOUR NIGHT VISION WITH LIGHTING FROM HELLA

RELIABILITY WITH PERFORMANCE



LUMINATOR LED SERIES DRIVING LAMPS

Multivolt™ 9-33V DC

HELLA's most innovative, advanced driving lamp, setting the highest standards for professional and heavy-duty driving. With three high power LEDs, a triple high-boost free-form (FF) reflector, hard-coated polycarbonate lens, inbuilt LED position light, and housed in a weatherproof die-cast aluminium housing with bracket. Emits an intense, consistent light similar to daylight – up to 540m at 1 Lux.

Never change bulbs again. Stays in alignment even on corrugated roads. Driving light uses a mere 30W, position light 1W. Brilliant.



PREDATOR HIGH BOOST IX XGD DRIVING LAMPS

12V DC, Inbuilt Ballast

Next generation Predator Series Xenon Gas Discharge Driving Lamp suitable for heavy-duty applications. Features an innovative design, modern clear-glass lens, high-boost free-form (FF) reflector and in-built ballast for fast and easy installation.

Weatherproof die-cast zinc housing and bracket. Integrated ballast, 35W D1S (XN4001) globe included (42W total).

Upright mounting. Ø 220 mm.



RALLYE FF 4000 COMPACT IX XGD DRIVING LAMPS

12V DC, Inbuilt Ballast

New generation Rallye FF 4000 Compact IX Series Xenon Gas Discharge Driving Lamp suitable for heavy-duty applications. Features a innovative compact design, modern clear-glass lens, high-boost free-form (FF) reflector and in-built electronic ballast for fast and easy installation.

Weatherproof die-cast zinc housing and bracket. Integrated ballast, 35W D1S (XN4001) globe included (42W total).

Upright mounting. Ø 170 mm.

Technology with Vision





Fog and Driving Lamps

Whether in the urban jungle, the early morning mist of a country road, autumn fog or off-road, superior lighting performance significantly enhances your driving safety.



Contents

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FOG AND DRIVING LAMPS - INNOVATIVE LIGHTING TECHNOLOGY

HELLA Fog and Driving Lamps provide superior performance - both in distance and evenness of illumination, for enhanced On and Off-road safety.

For decades, professional drivers have chosen the superior performance of HELLA driving lights to increase the range and distance of their forward vision at night and in adverse weather conditions.

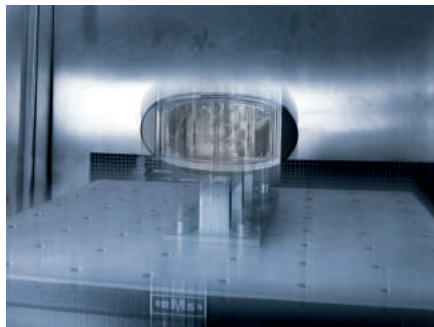
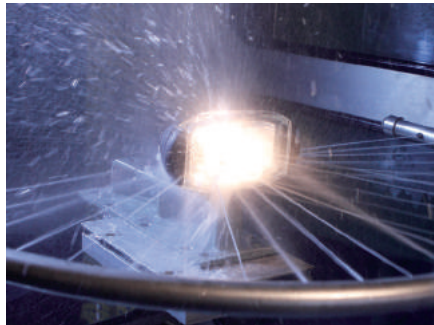
Driving for extended hours at night can be tiring. The use of good forward lighting has long been recognised as an effective approach to reduce driver fatigue and loss of concentration leading to dangerous situations for road users.

HELLA offers driving and fog lamps that suit even the most demanding applications, engineered to Original Equipment Manufacturer (OEM) standards and trusted by millions of motorists around the world.

The superior performance of HELLA auxiliary driving lamps is confirmed time and again in independent tests in major international automotive magazines.

HELLA Quality Control

Before a new HELLA design is passed for production and sale, it has to pass stringent endurance tests. To ensure HELLA driving lights are fit for their purpose, tests are conducted with simulated real-life environments and driving conditions.



The following criteria must be passed before a new driving light is considered for production:

- **Reliable performance in adverse conditions and extreme terrains.**
HELLA driving lamps are vigorously tested through mud and water spray tests simulating off-road and cross country driving.
- **Optimal performance in freezing cold and fierce heat.**
The driving lamps are subjected to extreme temperature variations between -40 °C to +80 °C during testing to ensure they are capable in all weather extremes.
- **Harsh vibration and shock resistant.**
Vibration testing is performed with random as well as fixed frequencies, known to stress materials. This simulates unforgiving road conditions such as cobblestones and potholes.
- **Watertight even in extreme weather.**
The driving lamps are subjected to water spray at pressures of 4 bar to simulate driving through torrential rain.

Tips For Safer Driving

- Ensure you always get a professional alignment after you change a headlamp, driving lamp, or globe.
- Always use a globe of the recommended wattage in your driving lamps. Using a higher wattage globe than recommended will only minimally increase the light performance but will substantially increase the generated heat. This may cause damage to lamp components.
- Lights converted to Xenon discharge systems that are not designed for this technology is not recommended and can be illegal in certain on-road applications.
- If you are 'blowing' globes regularly, and/or your lights are not as bright as they used to be, try fitting a relay. A relay will both protect your switch and electrical system, as well as assist in applying the design voltage to the globe.



ELIVER The Online Comparison Tool

Eliver - our unique comparison tool helps you find the best possible fog or driving lamp for your application.

With Eliver, you can easily compare our best lamps online and get a realistic idea of performance.

Get the right lights for your everyday work.



SAFER DRIVING WITH HELLA'S ADVANCED TECHNOLOGY



“The use of good forward lighting has long been recognised as an effective approach to reduce driver fatigue”

Lights with Parabolic Reflector Systems

These lights are designed with a reflector in the mathematically defined shape of a paraboloid. The reflector captures the luminous flux emitted by the globe and projects this forward as an almost parallel light beam.

The specific light distribution is produced by optical lenses and prisms in the profiled cover lens which precisely directs the light to the area to be illuminated. Good optic design produces an even illumination where as a spotty appearance is the result of poorly designed optics.

Efficient headlamps with parabolic reflector systems require a large reflector in order to capture the maximum luminous flux from the globe.

Lights with Free-Form (FF) Reflector Technology

Lights incorporating Free-Form (FF) technology are based on complex computer simulations. Over 50,000 (individual surfaces of the reflector are calculated and formed to precisely reflect the light to the road in front of the vehicle. The outer cover lens contains minimal optic elements.

A well designed headlight, based on Free-Form (FF) technology, produces an evenly lit area in front of the vehicle which significantly contributes to safer driving.

Micro DE

The functional principle of a DE (Di axial Ellipsoid) lamp is similar to that of a slide projector. An ellipsoid Free-Form (FF) reflector directs the light to a focused glass lens which bundles and projects it onto the road. A shield positioned between the reflector and the lens provide a very sharp cut-off resulting in a concentrated light beam with defined edges ensuring a smooth light distribution with very little stray light. DE technology allows smaller dimensions with a higher luminance compared to a parabolic lamp.

Pencil Beam

The pencil beam driving light is designed for maximum long-range illumination, providing improved visibility of objects and traffic situations at great distance. This beam type is recommended for off-road vehicles where objects at a far distance must be recognised early to give the driver time to decide on a course of action.

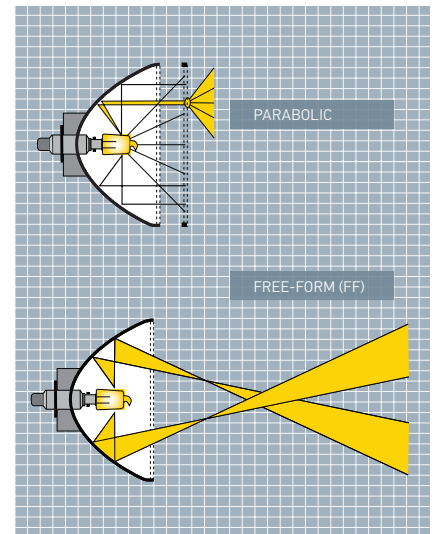
Spread Beam

The spread beam driving light provides effective illumination of both the area immediately in front of the vehicle and some distance ahead. This beam type is particularly suitable for road vehicles (e.g. trucks and buses) where fatigue-free driving is more important than recognising objects at a far distance.

HELLA Fog Lamps

Fog, rain or snow can reflect the light of standard driving lights into the driver's vision creating a dangerous glare which makes it difficult to recognise hidden hazards.

HELLA Fog Lamps are equipped with specially designed reflectors, which evenly illuminate the width of the road, providing you with a wide path of light for clearer visibility in close range to the vehicle. Particularly suitable for any vehicle driving through humid or moist areas where fog, rain or snow is common.



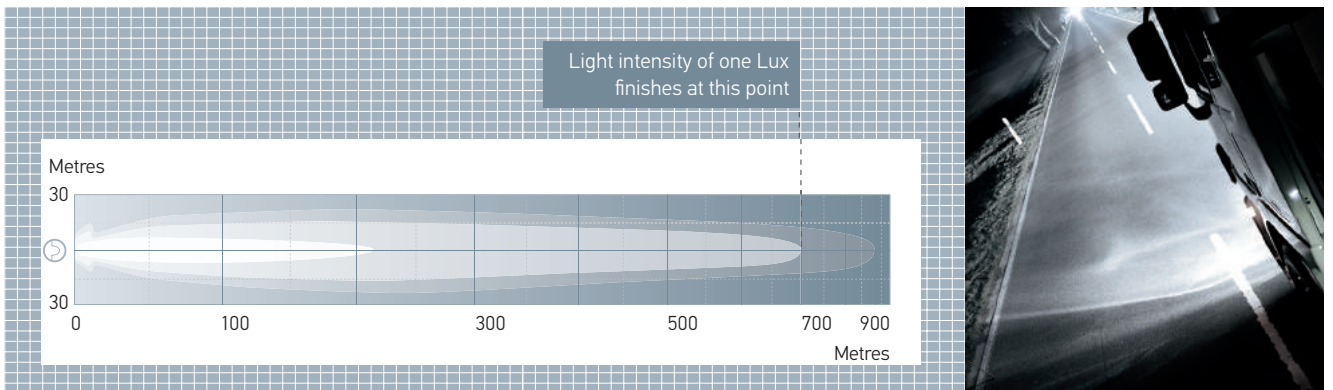
Lighting differences of the Parabolic and Free-Form (FF) lamps

MEASURING DISTANCE IN LIGHT

Isolux charts represent the beam pattern and the distance illuminated on a flat road surface using a single lamp.

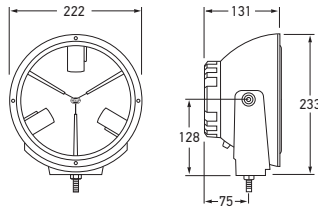
The colour shades represent the distance in metres from the lamp. The dark blue shade indicates an illumination level of one Lux (320 metres in the shown diagram).

One Lux represents the intensity of the light of a full moon (under clear atmospheric conditions) or just sufficient light by which to read a newspaper.



**Luminator LED
Driving Lamp 9-34V DC**

Innovative LED Driving Lamp equipped with 3 x high-power LEDs, impact resistant hard-coated PC lens, triple high-boost free-form (FF) reflector and in-built LED position light. Weatherproof die-cast aluminium housing and bracket. Suitable for heavy-duty applications. Key features include: first auxiliary driving lamp utilising LED light sources, intense and consistent illumination similar to daylight, hard-coated PC lens, Multivolt™ 9-34V DC, robust construction, attractive design and individual styling, innovative in-built LED position light.

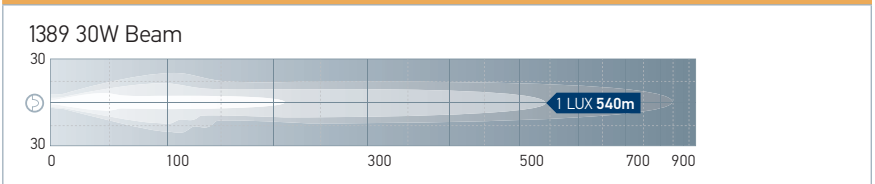


Part Number	1389LED	SPREAD BEAM
Mounting	Weatherproof die-cast zinc mounting bracket for upright or pendant mounting (by inverting the bracket)	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 34 volts.	
Power Consumption	Driving lamp: 30W Position lamp: 1W	
Weight	2.8kg	
Lead Length	80 centimetres	
Light Source	3 x High-powered LEDs	
Protection	IP 5K9K (Protection against dust and high-pressure water jets). Not suitable for submersion	
Note	Not intended for complete submersion	
Compliance	E1 3161	
Spare Parts	9.1389LED.01 Driving lamp lens, reflector and LED light source.	

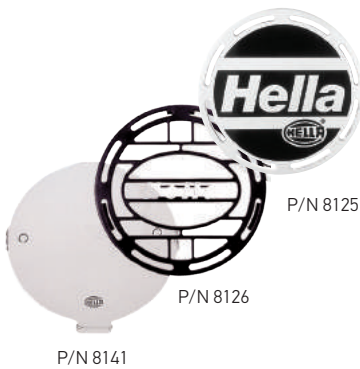


Front view showing position lamp

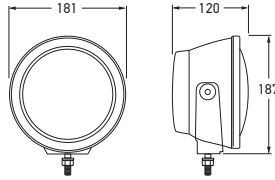
LED Luminator Compact Spread Beam distance. Recorded with single lamp. Distance in metres.



Accessories



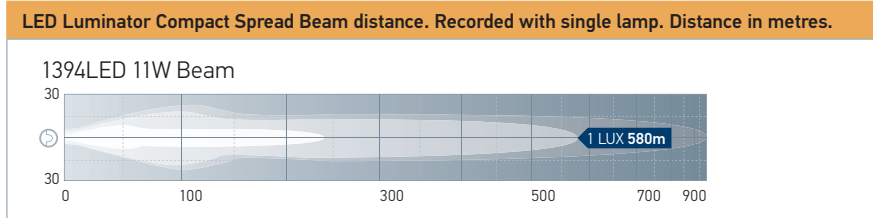
Part Numbers	8125	PROTECTIVE COVER
	8126	PROTECTIVE GRILLE
	8141	CLEAR PROTECTIVE COVER



LED Luminator Compact Spread Beam Driving Lamp - 9-34V DC

Compact housing with powerful LED technology and hard coated PC lens. Suitable for off-road use, briefly immersible (up to 5 minutes fording at up to 0.5m in clear water). The heavy-duty version has a 2,500mm ventilation hose and T-piece to permit fording even in muddy water. Fitted with 3.0 m, two-pole cable (with bare ends).

Part Numbers	1394LED Chrome Rim, Multivolt 12/24V DC	ADR	SPREAD BEAM
	1394LEDHD Black Heavy Duty Multivolt 12/24V DC	ADR	SPREAD BEAM
Mounting	Upright or Pendant (by inverting the bracket)		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 34 volts.		
Power Consumption	Driving lamp:	11W	
Lead Length	30 centimetres		
Compliance	Ei 3738		
Accessory	8163 Clear Protective Cover ①		
Spare Parts	9.1394LED.01	Lens with Chrome Rim (Suits 1394LED)	
	9.1394LEDHD.01	Lens with Black Rim (Suits 1394LEDHD)	



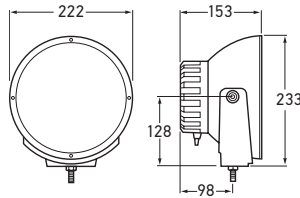
Chrome Rim - 1394LED



Heavy Duty Black Rim - 1394LEDHD

Predator iX Series Driving Lamps

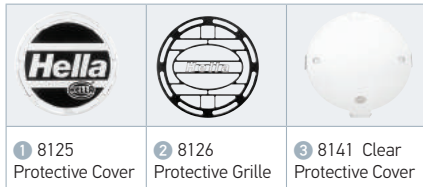
New Generation Predator Series Xenon Gas Discharge Driving Lamp featuring a new innovative design, modern clear glass lens, high-boost free-form (FF) reflector and in-built ballast for fast and easy installation. Weatherproof die-cast zinc housing and bracket. Suitable for heavy-duty applications.



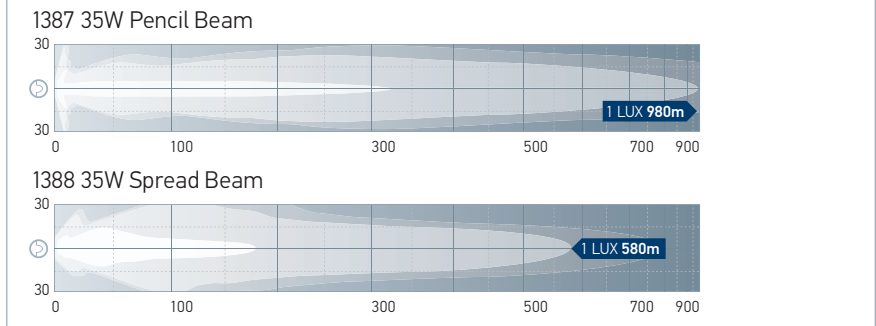
Part Numbers	1387	High Boost iX Driving Lamp - 12V DC		PENCIL BEAM
	1387-24V	High Boost iX Driving Lamp - 24V DC		PENCIL BEAM
	1388	High Boost iX Driving Lamp - 12V DC		SPREAD BEAM
	1388-24V	High Boost iX Driving Lamp - 24V DC		SPREAD BEAM

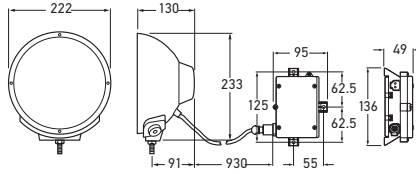
Mounting	Upright or Pendant (by inverting the bracket)			
Voltage	Determined by ballast (12V DC integrated ballast, 24V DC integrated ballast)			
Power Consumption	35W globe (42W total)			
Globe to Suit	D1S (XN4001) included (Suitable for 12V and 24V DC)			
Lead Length	80 Centimetres			
Accessories	8125	Protective Cover		
	8126	Protective Grille		
	8141	Clear protective Cover		
Spare Parts	9.1387.01	HB iX Pencil Beam Insert		
	9.1388.01	HB iX Spread Beam Insert		
	9.1387.07	Chrom Rim		

FOG AND DRIVING



iX Series Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.





Part Numbers	1367HB	High Boost XGD - 12V DC		PENCIL BEAM
	1368HB	High Boost XGD - 12V DC		SPREAD BEAM
	1358HB-24V	High Boost XGD - 24V DC		SPREAD BEAM

Mounting	Upright		
Voltage	Determined by ballast		
Power Consumption	35W Globe (42W total)		
Mounting	Upright		
Globe to Suit	D1S (XN4001) included. Suitable for 12V and 24V DC.		
Accessories	8125 Protective Cover ¹ 8126 Protective Grille ² 8141 Clear Protective Cover ³		
Spare Parts	9.1367HB.01	HB Pencil Beam insert	
	9.1368HB.01	Spread Beam insert	
	9.1319.03	Ballast 12V DC	
	9.1319.04	Ballast 24V DC	
	9.1367.07	Lens retaining rim	
	9.1365.06	Bracket adjusting screw set M8	
	9.1365.08	Bracket assembly and loom	

Predator Series Driving Lamps

High-performance Xenon Gas Discharge Driving Lamp featuring modern clear glass lens and newly developed high-boost free-form (FF) reflector. Weatherproof die-cast zinc housing and bracket. Suitable for heavy-duty applications. Supplied with allen keys and Protective Cover, Part No. 8125

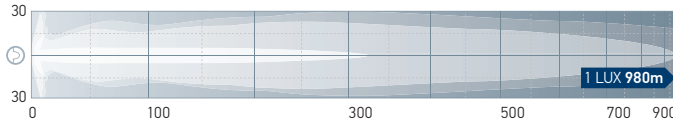


FOG AND DRIVING

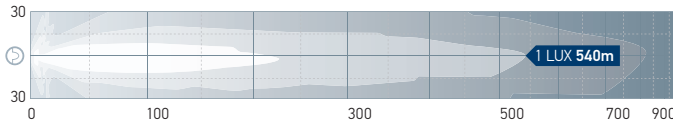
¹ 8125 Protective Cover	² 8126 Protective Grille	³ 8141 Clear Protective Cover

High Boost XGD Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1367HB 35W Pencil Beam

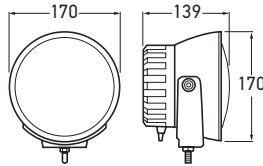


1368HB 35W Spread Beam



Raylle FF 4000 Compact iX Series

New Generation Rallye FF 4000 Compact iX Series Xenon Gas Discharge Driving Lamp featuring a new innovative design, modern clear glass lens, high-boost free-form (FF) reflector and in-built electronic ballast for fast and easy installation. Weatherproof die-cast zinc housing and bracket. Suitable for heavy-duty applications.

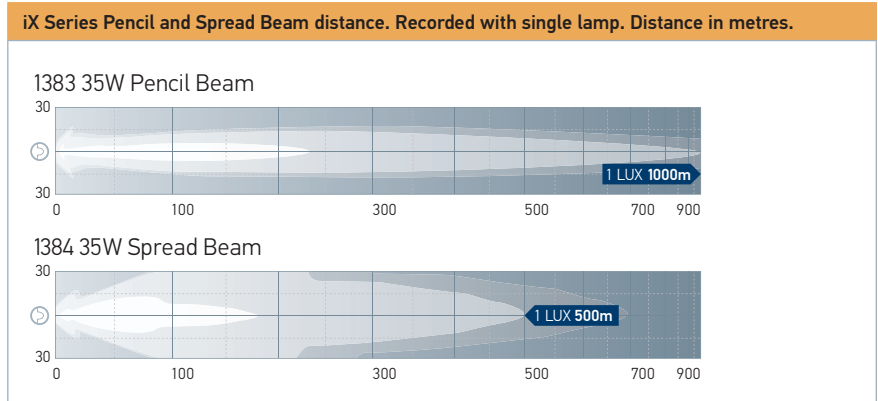


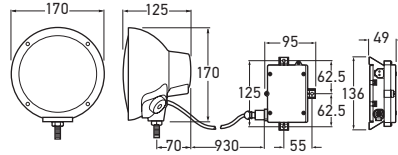
Part Numbers	1383	XGD Driving Lamp - 12V DC		PENCIL BEAM
	1384	XGD Driving Lamp - 12V DC		SPREAD BEAM
Mounting	Upright or Pendant (by inverting the bracket)			
Voltage	12V DC integrated ballast			
Power Consumption	35W globe (42W total)			
Globe to Suit	D1S (XN4001) included (Suitable for 12V and 24V DC)			
Accessory	8155 Clear Protective Cover			
Spare Parts	9.1381.01	HB Pencil Beam insert		
	9.1382.01	HB Spread Beam insert		
	9.1383.07	Chrome Rim		

FOG AND DRIVING



8155 Clear Protective Cover





Part Numbers	1381	Compact XGD Driving Lamp - 12V DC		PENCIL BEAM
	1382	Compact XGD Driving Lamp - 12V DC		SPREAD BEAM
Mounting	Upright			
Voltage	12V DC integrated ballast			
Power Consumption	35W globe (42W total)			
Globe to Suit	D1S (XN4001) included (Suitable for 12V and 24V DC)			
Accessories	8155 Clear Protective Cover			
Spare Parts	9.1381.01	HB Pencil Beam insert		
	9.1382.01	HB Spread Beam insert		
	9.1319.03	Ballast 12V DC		
	9.1319.04	Ballast 24V DC		
	9.1365.06	Bracket adjusting screw set M8		
	9.1378.08	Bracket assembly and loom		

Raylle FF 4000 Compact Series

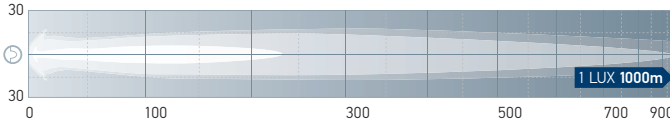
Compact Xenon Gas Discharge Driving Lamp featuring modern clear glass lens and newly developed high-boost free-form (FF) reflector. Weatherproof black metal housing. Suitable for heavy-duty applications.



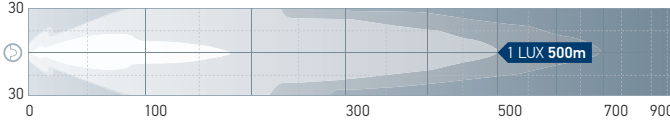
FOG AND DRIVING

Compact XGD Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1381 35W Pencil Beam

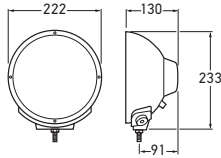


1382 35W Spread Beam



8155 Clear Protective Cover

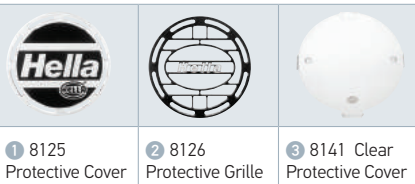
Rallye FF 4000 Series



Part Numbers	1365	100W Driving Lamp - 12V		PENCIL BEAM
	1366	100W Driving Lamp - 12V		SPREAD BEAM
	1165	Fog Lamp White Optic - 12V		WIDE CORNERING

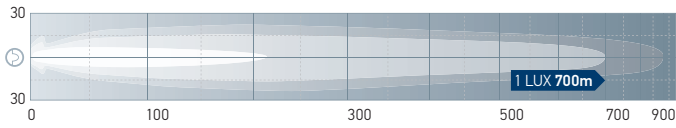
Mounting	Upright or Pendant.		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H1 (C12100) 24V H1 (C24100)		
Spare Parts	9.1365.01 9.1366.01 9.1365.05 9.1365.06 9.1365.07 9.1365.08	Pencil Beam insert Spread Beam insert Male and Female Socket Connector Set M8 Screw Set Lens Retaining Rim Bracket Assembly and Loom	
Accessories	8125 8126 8141	Protective Cover ¹ Protective Grille ² Clear Protective Cover ³	

FOG AND DRIVING

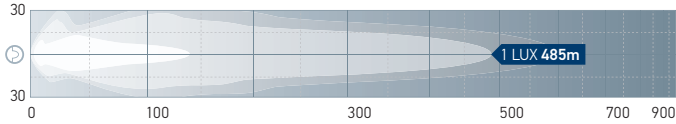


100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

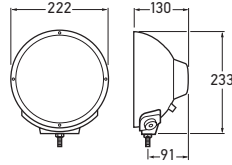
1365 100W Pencil Beam



1366 100W Spread Beam



FOG AND DRIVING LAMPS



Part Numbers	1365CHROME	100W Chrome Driving Lamp - 12V		PENCIL BEAM
	1366CHROME	100W Chrome Driving Lamp - 12V		SPREAD BEAM
Mounting	Upright or Pendant.			
Voltage	12V (globe included)			
Power Consumption	100W			
Globes to Suit	12V H1 (C12100) 24V H1 (C24100)			
Spare Parts	9.1365.01	Pencil Beam insert		
	9.1366.01	Spread Beam insert		
	9.1365.05	Male and Female Socket Connector Set		
	9.1365.06	M8 Screw Set		
	9.1365.CHROME 07	Chrome Lens Retaining Rim		
Accessories	8125	Protective Cover ①		
	8126	Protective Grille ②		
	8141	Clear Protective Cover ③		

Rallye FF 4000 Series

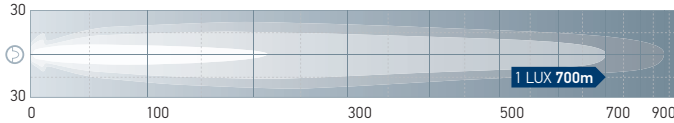
High-performance Driving Lamps with weatherproof chrome-plated metal housing and bracket. Suitable for extreme off-road environments. Supplied with Allen Keys and Protective Cover, Part No. 8125.



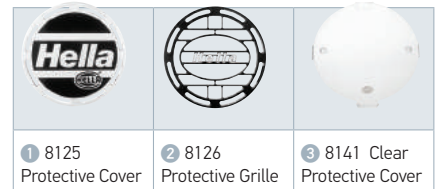
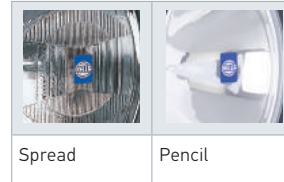
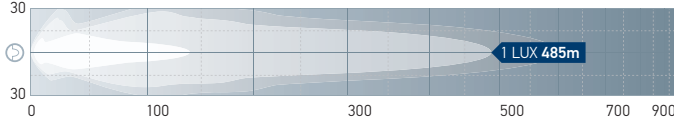
FOG AND DRIVING

100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1365CHROME 100W Pencil Beam

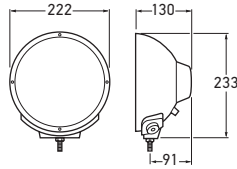


1366CHROME 100W Spread Beam



Rallye FF 4000 Series

High-performance Spread Beam Driving Lamp featuring blue-tinted, clear glass lens, newly developed high-boost free-form (FF) reflector, integrated front position lamp, weatherproof chrome-plated metal housing and bracket. Suitable for extreme off-road environments. Light colour remains white, when used with colourless globes. Supplied with Protective Cover, Part No. 8125.



Part Numbers	1376BLUEHB	100W Chrome High Boost Driving Lamp Blue - 12V	SPREAD BEAM
	1376BLUE	100W Chrome Driving Lamp Blue - 12V	SPREAD BEAM

Mounting Upright

Voltage 12V (globe included)

Power Consumption 100W

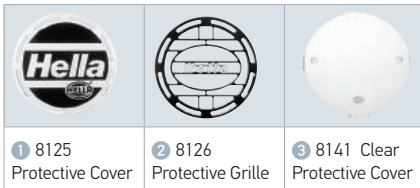
Globes to Suit	Driving Lamp Function	12V	H1 (C12100)
		24V	H1 (C24100)
	Front Position Lamp Function	12V	W5W (W125)
		24V	W5W (W245)

Note 3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.

Caution Suitable for colourless globes only.

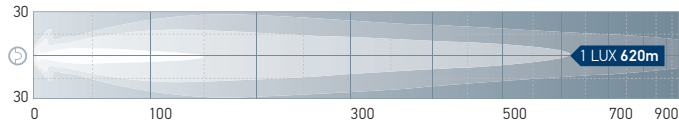
Accessories	8125	Protective Cover ①
	8126	Protective Grille ②
	8141	Clear Protective Cover ③

Spare Parts	9.1376BLUEHB.01	Blue HB Spread Beam insert
	9.1365.06	M8 Screw Set
	9.1365CHROME.07	Chrome Lens Retaining Rim

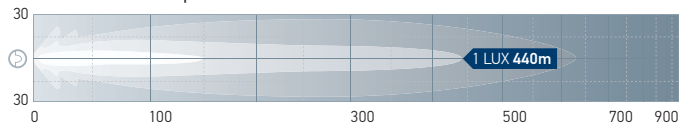


100W Pencil distance. Recorded with single lamp. Distance in metres.

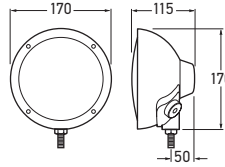
1376BLUEHB 100W Spread Beam



1376BLUE 100W Spread Beam



FOG AND DRIVING LAMPS



Rallye FF 4000 Compact Series

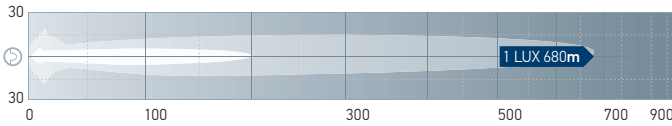
Compact Driving Lamps with modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof black metal housing and bracket. Suitable for heavy-duty applications.



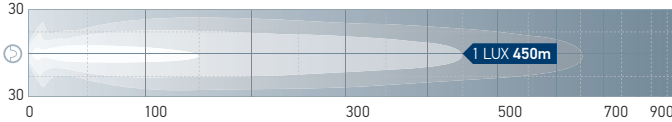
Part Numbers	1380	100W Compact Driving Lamp - 12V		PENCIL BEAM
	1378	100W Compact Driving Lamp - 12V		SPREAD BEAM
Mounting	Upright			
Voltage	12V (globe included)			
Power Consumption	100W			
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)			
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.			
Accessory	8155 Clear Protective Cover			
Spare Parts	9.1380.01	Pencil Beam insert		
	9.1378.01	Spread Beam insert		
	9.1365.06	M8 Screw Set		
	9.1378.08	Bracket Assembly		

100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1380 100W Pencil Beam



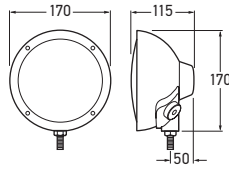
1378 100W Spread Beam



8155 Clear Protective Cover

Rallye FF 4000 Compact Series

Compact Driving Lamps featuring modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof chrome-plated metal housing and bracket. Suitable for heavy-duty applications.

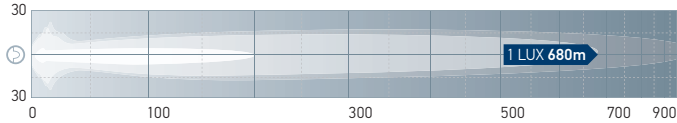


Part Numbers	1380CHROME	100W Compact Chrome Driving Lamp 12V	PENCIL BEAM
	1378CHROME	100W Compact Chrome Driving Lamp 12V	SPREAD BEAM
Mounting	Upright		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.		
Accessories	8155 Clear Protective Cover ①		
Spare Parts	9.1380.01	Pencil Beam insert	
	9.1378.01	Spread Beam insert	
	9.1365.06	M8 Screw Set	
	9.1378CHROME.08	Bracket Assembly	

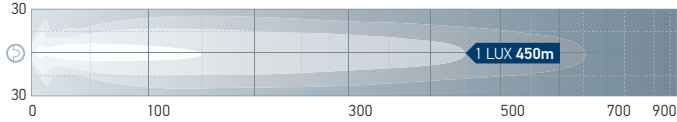


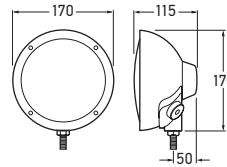
100W Pencil and Spread distance. Recorded with single lamp. Distance in metres.

1380CHROME 100W Pencil Beam



1378CHROME 100W Spread Beam





Rallye FF 4000 Compact Series

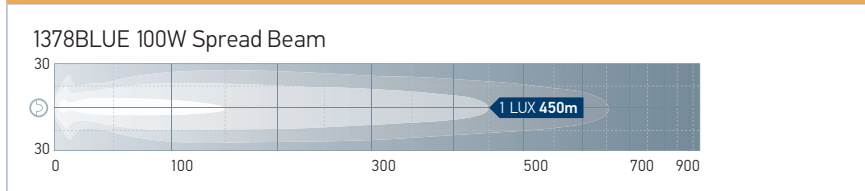
Compact Spread Beam Driving Lamp featuring blue-tinted, clear glass lens, newly developed high-boost free-form (FF) reflector and weatherproof chrome-plated metal housing. Suitable for heavy-duty applications. Light colour remains white, when used with colourless globes.

Part Number	1378BLUE	100W Compact Chrome High Boost Driving Lamp - Blue - 12V	SPREAD BEAM
Mounting	Upright		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.		
Caution	Suitable for colourless globes only.		
Accessory	8155 Clear Protective Cover ①		
Spare Parts	9.1378BLUE.01	Blue Spread Beam insert	
	9.1365.06	M8 Screw Set	
	9.1378CHROME.08	Bracket Assembly	



FOG AND DRIVING

100W Spread distance. Recorded with single lamp. Distance in metres.



Rallye 4000 Compact Accessories

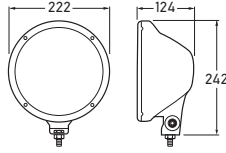
Part Number	8155	CLEAR PROTECTIVE COVER
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P/N 8155

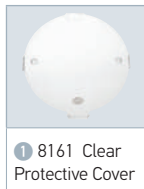
Rallye 3003 Series

Driving Lamps with modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof plastic housing and bracket.



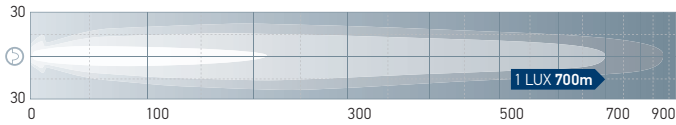
Part Numbers	1390	100W Driving Lamp - Silver Rim 12V		PENCIL BEAM
	1390CHROME	100W Driving Lamp - Chrome Rim 12V		PENCIL BEAM
	1391	100W Driving Lamp - Silver Rim 12V		SPREAD BEAM
	1391CHROME	100W Driving Lamp - Chrome Rim 12V		SPREAD BEAM

Mounting	Upright			
Voltage	12V (globe included)			
Power Consumption	100W			
Globes to Suit	12V H1 (C12100) 24V H1 (C24100)			
Accessory	8161 Clear Protective Cover ¹			
Spare Parts	9.1365.01	Pencil Beam insert		
	9.1366.01	Spread Beam insert		

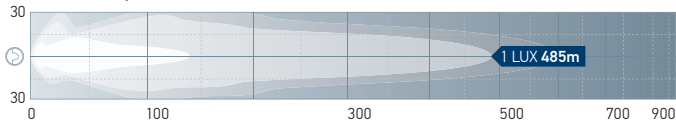


100W Pencil and Spread distance. Recorded with single lamp. Distance in metres.

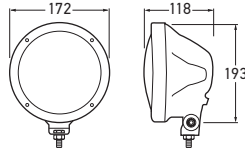
1390 100W Pencil Beam



1391 100W Spread Beam



FOG AND DRIVING LAMPS



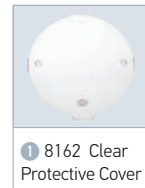
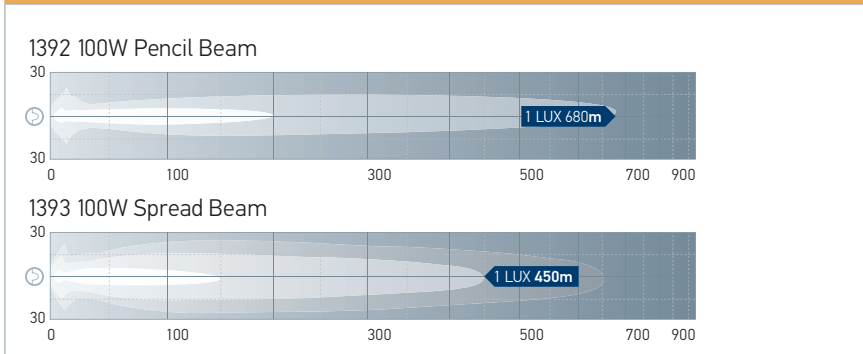
Rallye 3003 Compact Series

Compact Driving Lamps with modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof plastic housing and bracket.



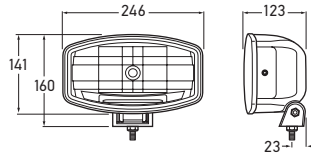
Part Numbers	1392	100W Driving Lamp - Silver Rim 12V		PENCIL BEAM
	1392CHROME	100W Driving Lamp - Chrome Rim 12V		PENCIL BEAM
	1393	100W Driving Lamp - Silver Rim 12V		SPREAD BEAM
	1393CHROME	100W Driving Lamp - Chrome Rim 12V		SPREAD BEAM
Mounting	Upright			
Voltage	12V (globe included)			
Power Consumption	100W			
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)			
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.			
Accessory	8162 Clear Protective Cover			
Spare Parts	9.1380.01	Pencil Beam insert		
	9.1378.01	Spread Beam insert		

100W Pencil and Spread distance. Recorded with single lamp. Distance in metres.



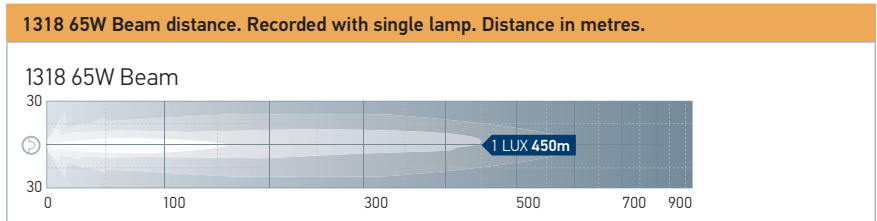
Jumbo 320 FF Series

High-performance Driving Lamp featuring modern clear glass optics and free-form (FF) reflector. Fitted with high-performance H7 65W Halogen Globe.



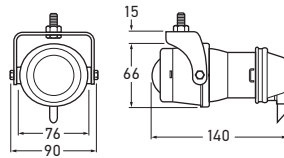
Part Number	1318	Driving Lamp - 12V	ADR
Mounting		Upright or Pendant	
Voltage		12V (globe included)	
Power Consumption		65W (High Performance)	
Globes to Suit		12V H7 (CA1265BL, CA1255) 24V H7 (CA2470)	
Note		3rd Edition ADR compliance applies only to 55W (CA1255) and 70W (CA2470) globes.	
Accessories	8153	Clear Protective Cover ①	
	8153SMOKE	Smokey Protective Cover ②	
Spare Part	9.1318.01	Driving lamp insert	

FOG AND DRIVING



Micro De Series

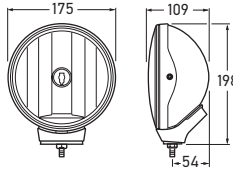
Compact Fog Lamp featuring a focused glass lens, modern free-form (FF) reflector, durable and lightweight magnesium housing and bracket. Kit includes 2 x Micro DE Fog Lamps, brackets, cabling, relay, switch and connectors.



Part Number	5647	Fog Lamp Kit - White Optic - 12V	ADR
Mounting		Upright or Pendant. Ideal for installations in/below front apron or front spoilers with limited mounting space. Standard mounting bracket and pre-assembled wiring harness included.	
Voltage		12V (globe included)	
Power Consumption		55W	
Globe to Suit		12V H3 (YC1255)	
Accessory	9.1115.08	Adjustable bracket assembly for installation into vehicle bodywork (optional) ①	



FOG AND DRIVING LAMPS



Raylle FF 1000 Series

High-performance Driving Lamps featuring modern clear glass lens, free-form (FF) reflector and heavy-duty metal bracket. Supplied with Allen Keys and Protective Cover, Part No. 8108.

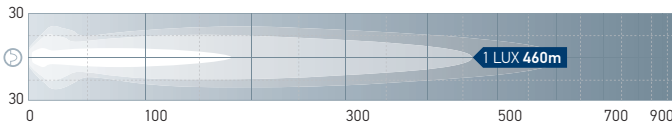
Part Numbers	1370	100W Driving Lamp - 12V		PENCIL BEAM
	1371	100W Driving Lamp - 12V		SPREAD BEAM
Mounting	Upright			
Voltage	12V (globe included)			
Power Consumption	100W			
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)			
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.			
Accessories	8108 Protective Cover ¹ 8146 Clear Protective Cover ²			
Spare Parts	9.1370.01 9.1371.01 9.1370.08	Pencil Beam insert Spread Beam insert Bracket Assembly		



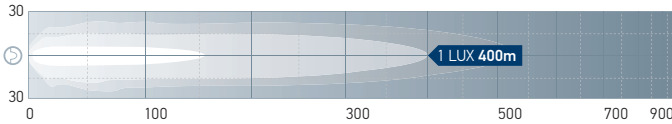
FOG AND DRIVING

100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1370 100W Pencil Beam



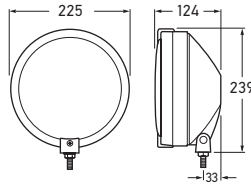
1371 100W Spread Beam



¹ 8108 Protective Cover ² 8146 Clear Protective Cover

Raylle FF 2000 Series

High-performance Driving Lamps featuring weatherproof black metal housing. Supplied with Protective Cover, Part No. 8114.



Part Numbers	1360	100W Driving Lamp - 12V DC		PENCIL BEAM
	1361	100W Driving Lamp - 12V DC		SPREAD BEAM

Mounting Upright or Pendant. Supplied with two point fixing bracket (Part No. 8004)

Voltage	12V (globe included)
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Power Consumption	100W
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Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)
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Accessories	8114 Protective Cover ¹ 8135 Clear Protective Cover ² 8004 Two Point Fixing Bracket Set ³
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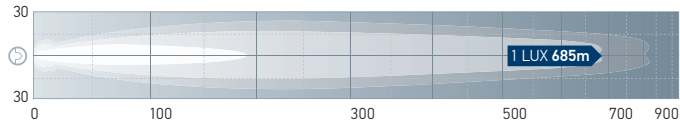
Spare Parts	9.1360.01	Pencil Beam insert
	9.1361.01	Spread Beam insert
	9.1160.02	Lens retaining spring
	9.1360.06	Rim clipset
	9.1360.07	Rim black
	9.1360.08	Mounting Bracket assembly
	9.1361.08	H2 globe holder (to suit old version)



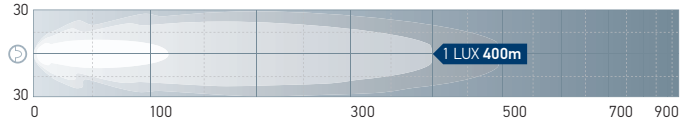
¹ 8114 Protective Cover	² 8141 Clear Protective Cover	³ 8004 Two Point Fixing Bracket Set

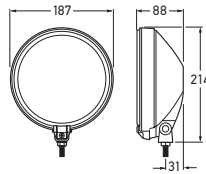
100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1360 100W Pencil Beam



1361 100W Spread Beam





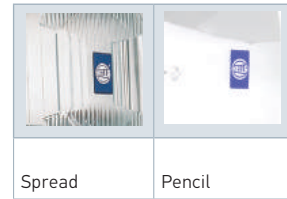
Raylle 1000 Series

High-performance Driving Lamps supplied with Protective Cover, Part No. 8118.

Part Numbers	1362	100W Driving Lamp - 12V		PENCIL BEAM
	1363	100W Driving Lamp - 12V		SPREAD BEAM
Mounting	Upright or Pendant. Supplied with two point fixing bracket (Part No. 8004).			
Voltage	12V (globe included)			
Power Consumption	100W			
Globes to Suit	12V H2 (CD12100, CD1255) 24V H2 (CD24100, CD2470)			
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.			
Accessories	8118 Protective Cover ¹ 8134 Clear Protective Cover ² 8004 Two Point Fixing Bracket Set ³			
Spare Parts	9.1362.01	Pencil Beam insert with globe holder		
	9.1363.01	Spread Beam insert		
	9.1362.08	Mounting Bracket assembly (without crossbolt, nut and washer)		
	9.1362.09	Body assembly		
	9.1363.08	Globe holder		

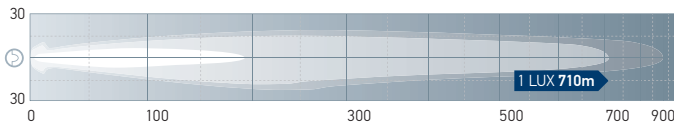


FOG AND DRIVING

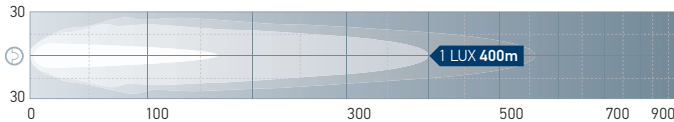


100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1362 100W Pencil Beam



1363 100W Spread Beam



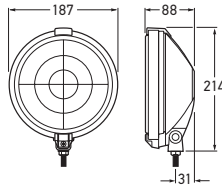
¹ 8118 Protective Cover

² 8134 Clear Protective Cover

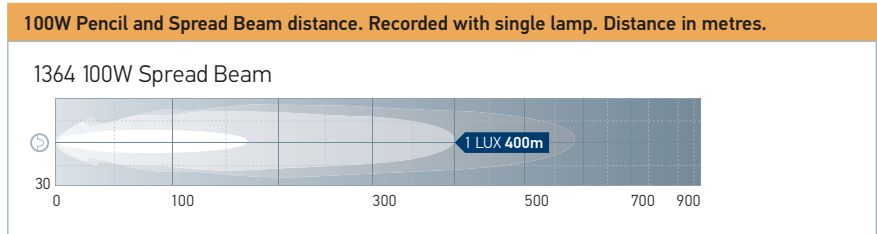
³ 8004 Two Point Fixing Bracket Set

Raylle 1000 Black Lighting Series

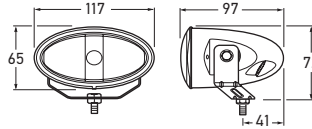
Unique black look to suit the style of many modern vehicles.



Part Number	1364	100W Driving Lamp - 12V	ADR	SPREAD BEAM
Mounting	Upright or Pendant.			
Voltage	12V (globe included)			
Power Consumption	100W			
Globes to Suit	12V H2 (CD12100, CD1255) 24V H2 (CD24100, CD2470)			
Note	3rd Edition ADR compliance applies only to 55W (CD1255) and 70W (CD2470) globes.			
Accessories	8140 Clear Protective Cover ① 8004 Two Point Fixing Bracket Set ②			
Spare Parts	9.1364.01	Spread Beam insert with globe holder		
	9.1363.08	Globe Holder		



FOG AND DRIVING LAMPS



Part Numbers	1322	Driving Lamp - 12V	ADR
	5613	Driving Lamp - 12V	ADR
	1122	Fog Lamp - White Optic - 12V	ADR
	5614	Fog Lamp Kit- White Optic - 12V	ADR

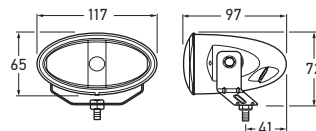
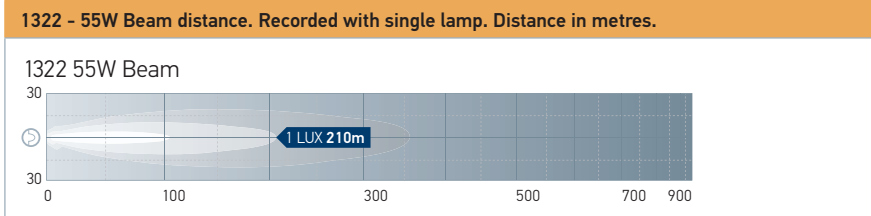
Mounting	Upright or Pendant.
Voltage	12V (globe included)
Power Consumption	55W
Globes to Suit	12V H7 (CA1255) 24V H7 (CA2470)
Accessory	8147 Clear Protective Cover ①

Comet FF 50 Series

Compact Driving and Fog Lamps featuring modern clear lens design and free-form (FF) reflector. Kit includes 2 x lamps and all parts required for installation.



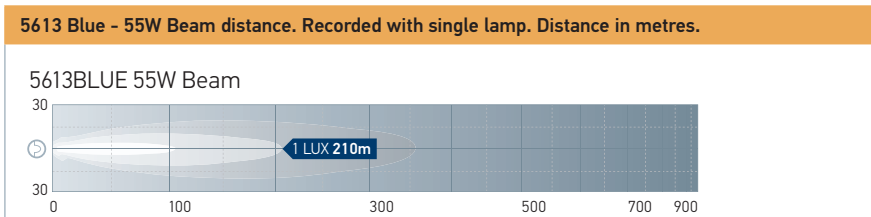
FOG AND DRIVING



Part Number	5613BLUE	Driving Lamp Kit - Blue, 12V	ADR
Mounting	Upright or Pendant.		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	12V H7 (CA1255) 24V H7 (CA2470)		
Caution	Suitable for colourless globes only.		
Accessory	8147 Clear Protective Cover ①		

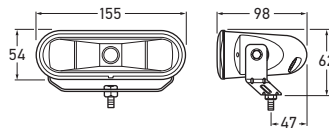
Comet FF 50 Series - Blue

Compact Driving Lamps in modern "Cool Blue" design featuring die-cast magnesium free-form (FF) reflector and blue-tinted lens. Light colour remains white when used with colourless globes. Kit includes 2 x lamps and all parts required for installation.



Comet FF 75 Series

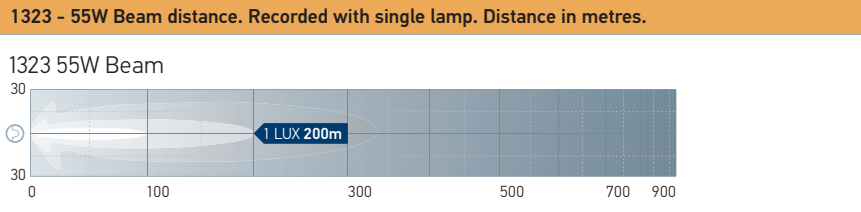
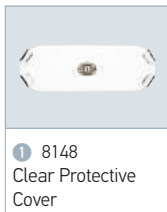
Compact Driving and Fog Lamps featuring modern clear lens design and free-form (FF) reflector. Kit includes 2 x lamps and all parts required for installation.



Part Numbers	1323	Driving Lamp - 12V	ADR
	5615	Driving Lamp - 12V	ADR
	1123	Fog Lamp - White Optic - 12V	ADR
	5616	Fog Lamp Kit- White Optic - 12V	ADR

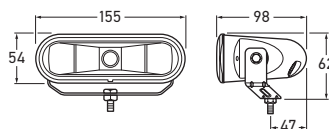
Mounting	Upright or Pendant.
Voltage	12V (globe included)
Power Consumption	55W
Globes to Suit	12V H7 (CA1255) 24V H7 (CA2470)
Accessory	8148 Clear Protective Cover ①

FOG AND DRIVING

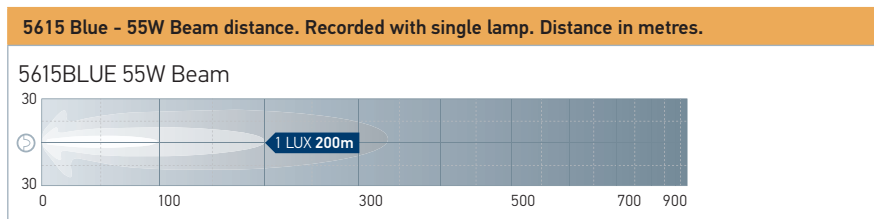
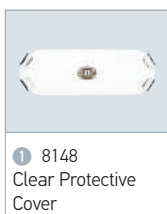


Comet FF 75 Series - Blue

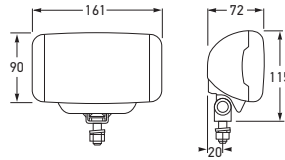
Compact Driving Lamps in modern "Cool Blue" design featuring die-cast magnesium free-form (FF) reflector and blue-tinted lens. Light colour remains white when used with colourless globes. Kit includes 2 x lamps and all parts required for installation.



Part Number	5615BLUE	Driving Lamp Kit - Blue, 12V	ADR
Mounting	Upright or Pendant.		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	12V H7 (CA1255) 24V H7 (CA2470)		
Caution	Suitable for colourless globes only.		
Accessory	8148 Clear Protective Cover ①		



FOG AND DRIVING LAMPS



Comet FF 450 Series

Non-patterned glass lens with free-form (FF) reflector. Computer calculated light distribution for powerful light performance. Sturdy plastic housing. Kits include 2 x lamps, 2 x Clear Protective Covers, and all parts required for installation.

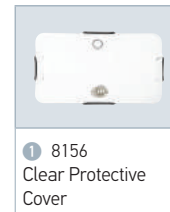
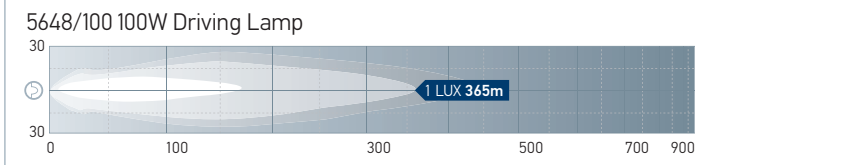
Part Numbers	1324	Driving Lamp - 12V	ADR	SPREAD BEAM
	5648/100	100W Driving Lamp - 12V	ADR	SPREAD BEAM
	1124	Fog Lamp - White Optic - 12V	ADR	FOG BEAM
	5649	Fog Lamp Kit- White Optic - 12V	ADR	FOG BEAM

Mounting	Upright or Pendant.		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	Driving	12V H3 (YC12100, YC1255)	24V H3 (YC24100, YC2470)
	Fog	12V H3 (YC1255)	24V H3 (YC2470)
Note	3rd Edition ADR compliance applies only to 55W (YC1255) and 70W (YC2470) globes		
Compliance	E 3221		
Spare Parts	9.1324.01	Driving lamp insert	
	9.1124.01	Fog lamp insert	
Accessory	8156 Clear Protective Cover 1		



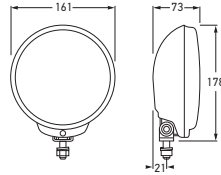
FOG AND DRIVING

Comet FF 450 Spread Beam distance. Recorded with single lamp. Distance in metres.



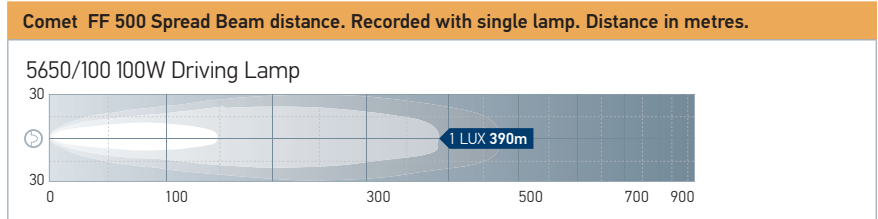
Comet FF 500 Series

Non-patterned glass lens with free-form (FF) reflector. Computer calculated light distribution for powerful light performance. Sturdy plastic housing. Kits include 2 x lamps, 2 x Clear Protective Covers, and all parts required for installation.

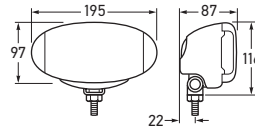


Part Numbers	1325	Driving Lamp - 12V	ADR	SPREAD BEAM
	5650/100	100W Driving Lamp - 12V	ADR	SPREAD BEAM
	1125	Fog Lamp - White Optic - 12V	ADR	FOG BEAM
	5651	Fog Lamp Kit- White Optic - 12V	ADR	FOG BEAM

Mounting	Upright		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	Driving	12V H3 (YC12100, YC1255)	24V H3 (YC24100, YC2470)
	Fog	12V H3 (YC1255)	24V H3 (YC2470)
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Compliance	E 3222		
Spare Parts	9.1325.01	Driving Lamp insert	
	9.1125.01	Fog Lamp insert	
Accessory	8157 Clear Protective Cover 1		



FOG AND DRIVING LAMPS



Part Numbers	1326	Driving Lamp - 12V	ADR	SPREAD BEAM
	5652/100	100W Driving Lamp - 12V	ADR	SPREAD BEAM
	1126	Fog Lamp - White Optic - 12V	ADR	FOG BEAM
	5653	Fog Lamp Kit- White Optic - 12V	ADR	FOG BEAM
Mounting	Upright or Pendant.			
Voltage	12V (globe included)			
Power Consumption	55W			
Globes to Suit	Driving	12V H3 (YC12100, YC1255)	24V H3 (YC24100, YC2470)	
	Fog	12V H3 (YC1255)	24V H3 (YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes			
Compliance	E1 3223			
Spare Parts	9.1326.01	Driving Lamp insert		
	9.1126.01	Fog Lamp insert		
Accessory	8158 Clear Protective Cover ①			

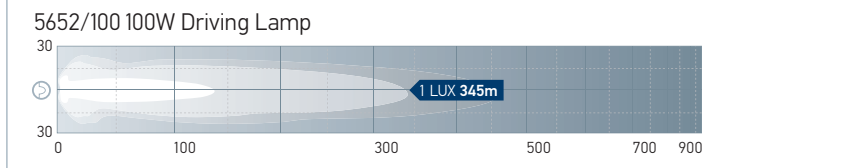
Comet FF 550 Series

Non-patterned glass lens with free-form (FF) reflector. Computer calculated light distribution for powerful light performance. Sturdy plastic housing. Kits include 2 x lamps, 2 x Clear Protective Covers, and all parts required for installation.



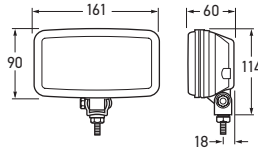
FOG AND DRIVING

Comet FF 550 Spread Beam distance. Recorded with single lamp. Distance in metres.



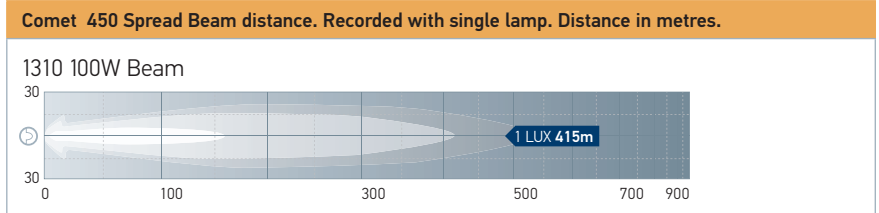
Comet 450 Series

Supplied with Protective Cover, Part No. 8123. Kit includes 2 x lamps, 2 x Protective Covers and all parts required for installation.

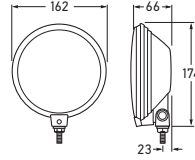


Part Numbers	1310	Driving Lamp - 12V	ADR	SPREAD BEAM
	5646/100	100W Driving Lamp - 12V	ADR	SPREAD BEAM
	1110	Fog Lamp - White Optic - 12V	ADR	FOG BEAM
	5645	Fog Lamp Kit- White Optic - 12V	ADR	FOG BEAM

Mounting	Upright and Pendant			
Voltage	12V (globe included)			
Power Consumption	55W			
Globes to Suit	Driving	12V H3 (YC12100, YC1255)	24V H3 (YC24100, YC2470)	
	Fog	12V H3 (YC1255)	24V H3 (YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes			
Spare Parts	9.1310.01	Driving Lamp insert with globe holder		
	9.1110.01	Fog Lamp insert with globe holder		
	9.1308.08	Mounting Bracket Assembly		
	9.1310.09	Body Assembly		
Accessories	8123	Protective Cover ①		
	8136	Clear Protective Cover ②		



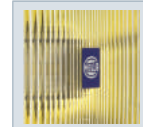
FOG AND DRIVING LAMPS



Comet 500 Series

Supplied with Protective Cover, Part No. 8121. Kit includes 2 x lamps, 2 x Protective Covers and all parts required for installation.

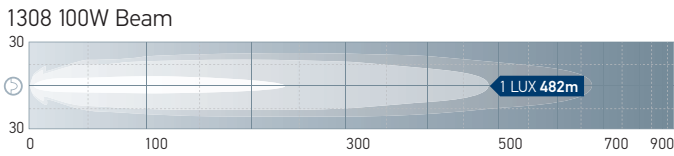
Part Numbers	1308	Driving Lamp - 12V	ADR	SPREAD BEAM
	5642/100	100W Driving Lamp - 12V	ADR	SPREAD BEAM
	1108	Fog Lamp - Amber Optic - 12V	ADR	FOG BEAM
	5641	Fog Lamp Kit- Amber Optic - 12V	ADR	FOG BEAM
Mounting	Upright and Pendant			
Voltage	12V (globe included)			
Power Consumption	55W			
Globes to Suit	Driving	12V H7 (YC12100, YC1255)	24V H7 (YC24100, YC2470)	
	Fog	12V H7 (CA1255)	24V H7 (CA2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes			
Spare Parts	9.1308.01	Driving Lamp insert		
	9.1108.01	Fog Lamp insert (amber)		
	9.1308.08	Mounting Bracket Assembly		
	9.1308.09	Body Assembly		
Accessories	8121	Protective Cover ①		
	8137	Clear Protective Cover ②		



Fog

FOG AND DRIVING

Comet 500 Spread Beam distance. Recorded with single lamp. Distance in metres.

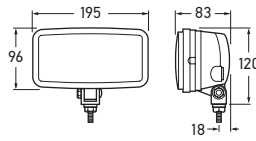


① 8121 Protective Cover

② 8141 Clear Protective Cover

Comet 550 Series

Supplied with Protective Cover, Part No. 8122. Kit includes 2 x lamps, 2 x Protective Covers and all parts required for installation.



Part Numbers	1309	Driving Lamp - 12V	ADR	SPREAD BEAM
	5644/100	100W Driving Lamp - 12V	ADR	SPREAD BEAM
	1109	Fog Lamp - Amber Optic - 12V	ADR	FOG BEAM
	5643	Fog Lamp Kit- Amber Optic - 12V	ADR	FOG BEAM

Mounting Upright and Pendant

Voltage 12V (globe included)

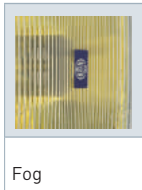
Power Consumption 55W

Globes to Suit	Driving	12V H3 (YC12100, YC1255)	24V H3 (YC24100, YC2470)
	Fog	12V H3 (YC1255)	24V H3 (YC2470)

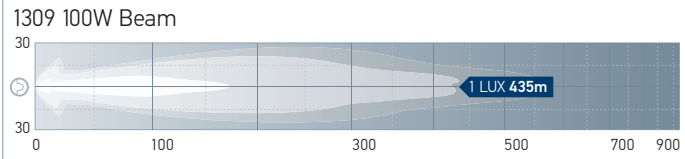
Note 3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes

Spare Parts	9.1309.01	Driving Lamp Insert
	9.1109.01	Fog Lamp Insert (amber)
	9.1308.08	Mounting Bracket Assembly

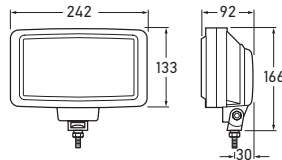
Accessories	8122	Protective Cover 1
	8138	Clear Protective Cover 2



Comet 550 Spread Beam distance. Recorded with single lamp. Distance in metres.



FOG AND DRIVING LAMPS



Part Number	1311	100W Driving Lamp - 12V	
Mounting	Upright or Pendant.		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Spare Parts	9.1311.01 Driving Lamp Insert 9.1311.07 Retaining Rim – black		
Accessories	8124 Protective Cover ¹ 8139 Clear Protective Cover ²		

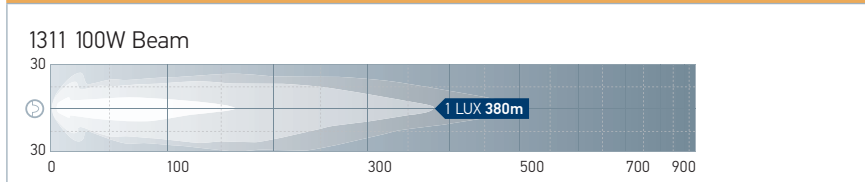
Jumbo 220 Series

Supplied with Protective Cover, Part No. 8124.



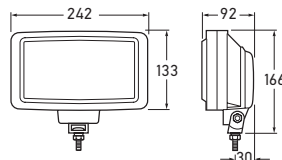
FOG AND DRIVING

1311 - 100W Beam distance. Recorded with single lamp. Distance in metres.



¹ 8124 Protective Cover

² 8139 Clear Protective Cover



Part Number	1111	Fog Lamp - White Optic - 12V	
Mounting	Upright or Pendant.		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	12V H3 (YC1255) 24V H3 (YC2470)		
Spare Parts	9.1111.01 Fog Lamp Insert 9.1311.07 Retaining Rim – black		
Accessories	8124 Protective Cover ¹ 8139 Clear Protective Cover ²		

Jumbo 220 Series

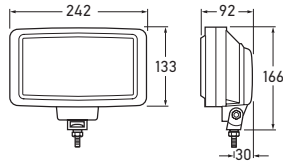


¹ 8124 Protective Cover

² 8139 Clear Protective Cover

Jumbo 220 Series

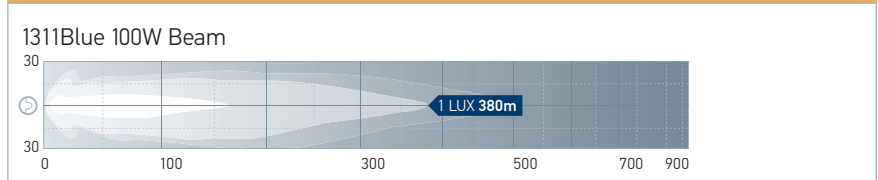
High-performance Driving Lamp featuring modern, blue-tinted lens and chrome-plated rim. Light colour remains white, when used with colourless globes.



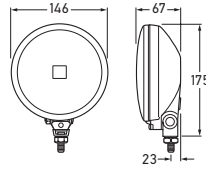
Part Number	1311BLUE	100W Driving Lamp - 12V	
Mounting	Upright or Pendant.		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Caution	Suitable for colourless globes only.		
Spare Parts	9.1311BLUE.01 9.1311BLUE.07	Blue Driving Lamp insert Retaining Rim – black	
Accessories	8124 Protective Cover ¹ 8139 Clear Protective Cover ²		



1311Blue - 100W Beam distance. Recorded with single lamp. Distance in metres.



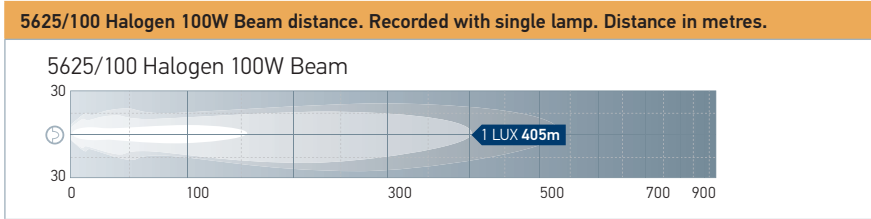
FOG AND DRIVING LAMPS



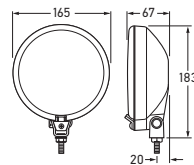
140 Series

Kit including 2 x Driving Lamps fitted with 100W globes, 2 x Protective Covers, Part No. 8112 and all parts required for installation.

Part Number	5625/100	100W Driving Lamp Kit - 12V	ADR
Mounting	Upright		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Spare Parts	9.1306.01	Driving Lamp Insert with globe holder	
	9.1306.09	Body Assembly	
	9.1345.08	Mounting Bracket Assembly	
Accessories	8112	Protective Cover ①	
	8130	Clear Protective Cover ②	



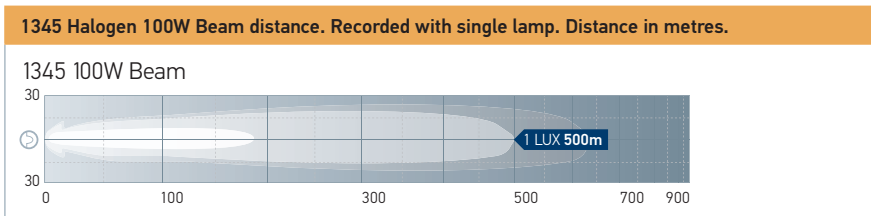
FOG AND DRIVING



160 Series

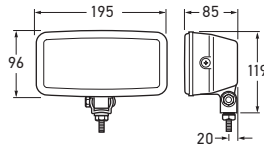
Supplied with Protective Cover, Part No. 8106. Kit includes 2 x Driving Lamps fitted with 100W globes, 2 x Protective Covers, Part No. 8106 and all parts required for installation.

Part Numbers	1345	100W Driving Lamp 12V	ADR
	5623/100	100W Driving Lamp Kit - 12V	ADR
Mounting	Upright		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Spare Parts	9.1345.01	Driving Lamp insert	
	9.1345.08	Mounting Bracket Assembly	
	9.1345.09	Body Assembly	
Accessories	8106	Protective Cover ①	
	8132	Clear Protective Cover ②	



181 Series

Supplied with Protective Cover.
Kit includes 2 x lamps, 2 x Protective Covers, Part No. 8116 and all parts required for installation.



Part Numbers	1307	Driving Lamp 12V	ADR	SPREAD BEAM
	5633/100	100W Driving Lamp Kit - 12V	ADR	SPREAD BEAM
	1107	Fog Lamp - Amber Optic - 12V	ADR	FOG BEAM
	5632	Fog Lamp Kit - Amber Optic - 12V	ADR	FOG BEAM

Mounting Upright or Pendant

Voltage 12V (globe included)

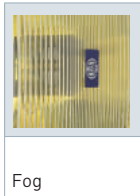
Power Consumption 55W

Globes to Suit	Driving	12V H3 (YC12100, YC1255)	24V H3 (YC24100, YC2470)
	Fog	12V H3 (YC1255)	24V H3 (YC2470)

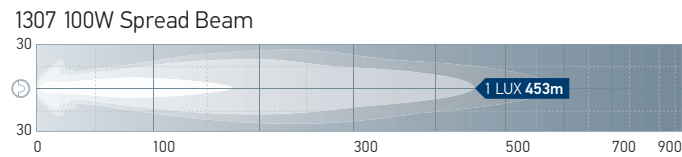
Note 3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes

Spare Parts	9.1307.01	Driving Lamp Insert
	9.1107.01	Fog Lamp Insert
	9.1307.09	Body Assembly
	9.1308.08	Mounting Bracket Assembly

Accessories	8116	Protective Cover ①
	8133	Clear Protective Cover ②




1307 100W Spread Beam distance. Recorded with single lamp. Distance in metres.



Wiring Harnesses
Universal Driving Lamp Wiring Kit


Complete Quick-Fit Wiring Harness for Driving Lamps, easy to install with no modification necessary to existing vehicle wiring. Supplied with detailed instructions

Part Number	5223	Universal Driving Lamp Wiring Kit - Pre-wired - 12V DC	
Content	1 x H4 Headlamp adaptor plug 1 x Heavy-duty 5mm battery supply to relay with 4mm power supply and chassis earth to both lamps 1 x Inline fuse holder with 20A 3AG fuse 1 x Duckbill switch and connectors 1 x Diode protected 40A relay in heavy-duty connector		



Wiring Harnesses
Universal Auxiliary Wiring Kit

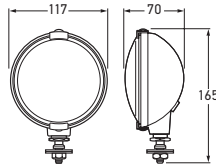
Universal Wiring Kit supplied with all parts required for installation and detailed instructions.

Part Number	5224	Universal Auxiliary Wiring Kit	
Content	1 x 30A Relay 1 x On/Off Duckbill toggle switch 1 x 4.6m Length of 4mm cable 1 x 2m Length of 3mm cable		

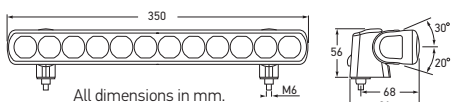


**Sealed Pencil Beam
Driving Lamps - 114mm**

Supplied with Protective Cover, Part No. 8122.
Kit includes 2 x lamps, 2 x Protective Covers
and all parts required for installation.



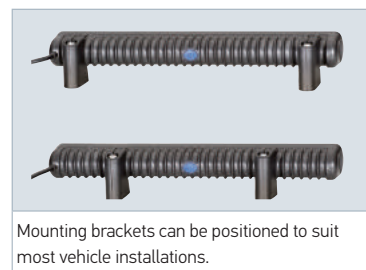
Part Numbers	1300	Sealed Driving Lamp - 114mm - 12V	PENCIL BEAM
	5620	Sealed Driving Lamp Kit - 114mm - 12V	PENCIL BEAM
Mounting	Upright or Pendant		
Voltage	12V (Sealed Beam included)		
Power Consumption	100W		
Spare Part	9.1300.08	Mounting Bolt Assembly	
Accessory	8109	Sealed Beam	



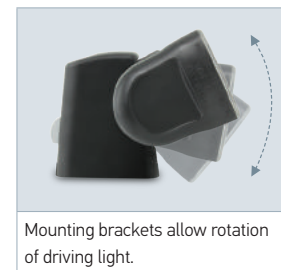
Part Numbers	1395	DRIVING BEAM
	1396	PENCIL BEAM
Mounting	Upright or Pendant	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts DC.	
Power Consumption	25W	
Maximum Luminous Intensity	1395: 96,000 candela 1396: 145,000 candela	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of tinned multi-core cable.	
Compliance	Ⓔ4 2909 R10/04 ⚡	
	1395: Ⓔ24 0008 R112/01 Ref. 20	
	1396: Ⓔ24 0009 R112/01 Ref. 30	
Warranty	5 years.	

LED Driving Light Bar 350mm

This innovative, light weight HELLA LED Driving Light Bar is the first such lamp with a body manufactured entirely from non corrosive, thermally conductive high performance plastics. This aerodynamic powerhouse features 12 durable high performance automotive grade LED's and a maximum luminous intensity of 145,000 candela with a mere power consumption of only 25 watts. The dust and waterproof Driving Light comes in two different beam patterns – High Beam (Ref 20 with 1 lux at approx. 320 metres) and Pencil Beam (Ref 30 with 1 lux at approx. 380 metres). The hermetically sealed and submersible light bar features a Multivolt™ circuit for optimum brightness at input voltages from 9 to 33 volts, is fully road legal with ECE approval and comes with a comprehensive 5 year warranty.

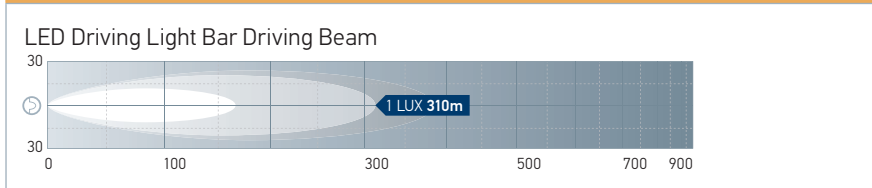


Mounting brackets can be positioned to suit most vehicle installations.

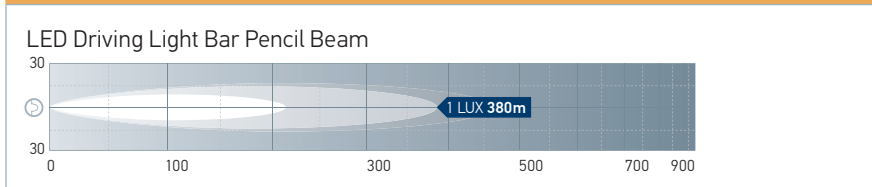


Mounting brackets allow rotation of driving light.

P/N 1395 - 100W Spread Beam distance. Recorded with single lamp. Distance in metres.



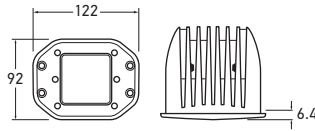
P/N 1396 - 100W Spread Beam distance. Recorded with single lamp. Distance in metres.



P/N 1395
LED Driving Light Bar 350mm

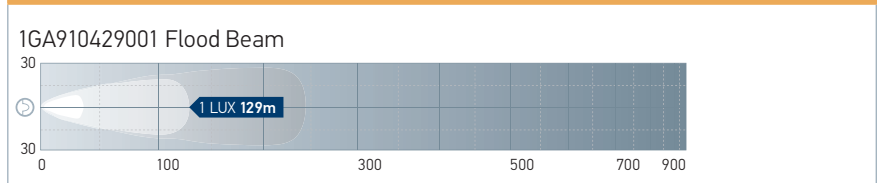
EnduroLED Flush Mount

Set of 2 Lamps with integrated flush mount flange. Features 4 high output LEDs with patented hybrid reflectors. Durable hard-coated Polycarbonate lens resists U.V damage. Heatsink draws heat away from circuits extending life and performance. Made in U.S.A.



Part Number	1GA910429001	EnduroLED Flush Mount Kit - 80mm LED Module
Mounting	Flush Mount.	
Voltage	Multivolt™ (9-36V DC) Suitable for 12V and 24V electrical systems.	
Power Consumption	20W (Single lamp)	
Lead Lengths	Pigtail 265mm Harness 3040mm	- terminated to 2-pole DT connector - terminated to 2-pole DT connector
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.	

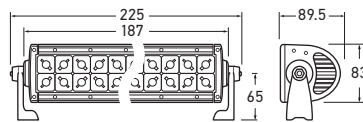
1GA910429001 Flood Beam distance. Recorded with single lamp. Distance in metres.



FOG AND DRIVING

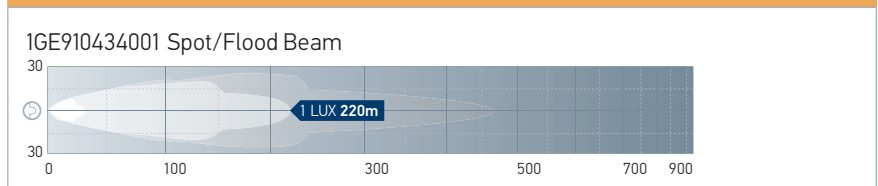
EnduroLED Series 2

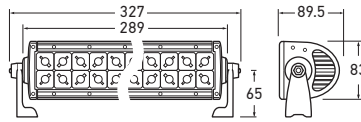
EnduroLED Series 2 with 2 rows of high output LEDs. Patented reflector design operates at high efficiency delivering more light per Watt with a 50,000+ hour life. Durable hard-coat Polycarbonate lens resists U.V damage. Large heatsink surface area draws heat away from circuits ensuring high performance and long life. Made in U.S.A.



Part Number	1GE910434001	EnduroLED Spot /Flood Lamp - 150mm (6") LED Module
Mounting	Upright or Pendant	
Voltage	Multivolt™ (9-36V DC) Suitable for 12V and 24V electrical systems.	
Power Consumption	24W (Single lamp)	
Lead Lengths	Pigtail 265mm Harness 3040mm	- terminated to 2-pole DT connector - terminated to 2-pole DT connector
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.	

1GD910434001 Spot/Flood Beam distances. Recorded with single lamp. Distance in metres.





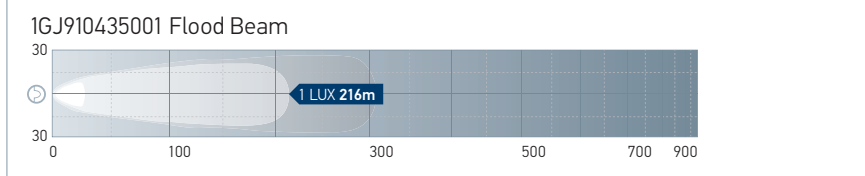
Part Numbers	1GJ910435001	EnduroLED Flood Lamp - 250mm (10") LED Module	
	1GJ910436001	EnduroLED Spot Lamp - 250mm (10") LED Module	
	1GJ910437001	EnduroLED Spot /Flood Lamp - 250mm (10") LED Module	
Mounting	Upright or Pendant		
Voltage	Multivolt™ (9-36V DC) Suitable for 12V and 24V electrical systems.		
Power Consumption	40W (Single lamp)		
Lead Lengths	Pigtail 495mm	- terminated to 2-pole DT connector	
	Harness 2489mm	- terminated to 2-pole DT connector	
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.		
Accessory	8XS910446001	Clear Protective Cover	

EnduroLED Series 2

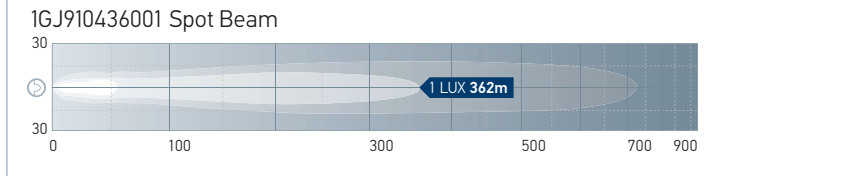
EnduroLED Series 2 with 2 rows of high output LEDs. Patented reflector design operates at high efficiency delivering more light per Watt with a 50,000+ hour life. Durable hard-coat Polycarbonate lens resists U.V damage. Large heatsink surface area draws heat away from circuits ensuring high performance and long life. Made in U.S.A.



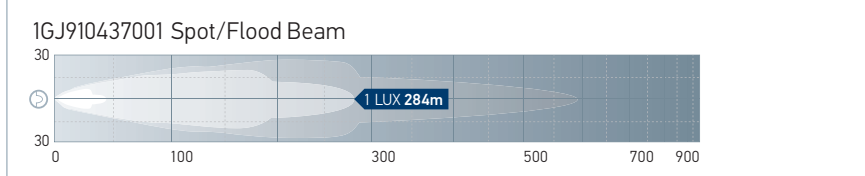
1GJ910435001 Flood Beam distances. Recorded with single lamp. Distance in metres.



1GJ910436001 Spot Beam distances. Recorded with single lamp. Distance in metres.



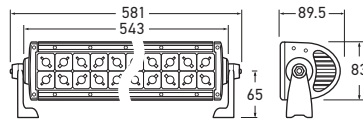
1GJ910437001 Spot/Flood Beam distances. Recorded with single lamp. Distance in metres.



FOG AND DRIVING

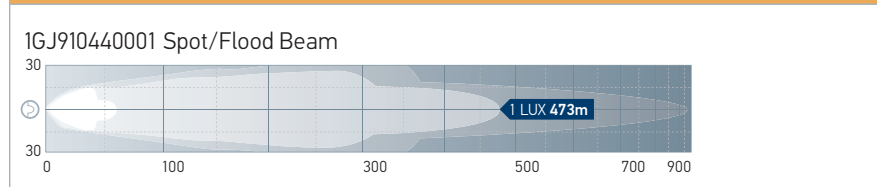
EnduroLED Series 2

EnduroLED Series 2 with 2 rows of high output LEDs. Patented reflector design operates at high efficiency delivering more light per Watt with a 50,000+ hour life. Durable hard-coat Polycarbonate lens resists U.V damage. Large heatsink surface area draws heat away from circuits ensuring high performance and long life. Made in U.S.A.



Part Number	1GJ910440001	EnduroLED Spot /Flood Lamp - 500mm (20") LED Module
Mounting	Upright or Pendant	
Voltage	Multivolt™ (9-36V DC) Suitable for 12V and 24V electrical systems.	
Power Consumption	80W (Single lamp)	
Lead Lengths	Pigtail 495mm Harness 2489mm	- terminated to 2-pole DT connector - terminated to 2-pole DT connector
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.	
Accessories	8XS910446001	Clear Protective Cover (2 required for each light bar)

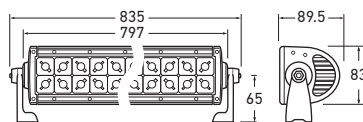
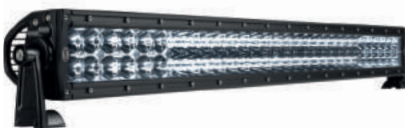
1GJ910440001 Spot/Flood Beam distances. Recorded with single lamp. Distance in metres.



FOG AND DRIVING

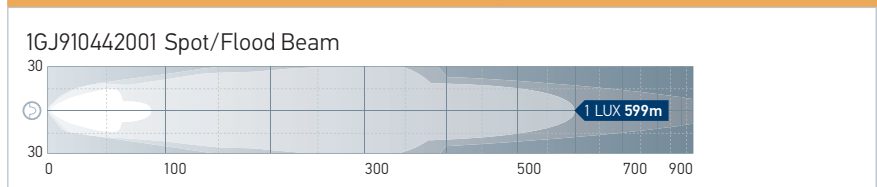
EnduroLED Series 2

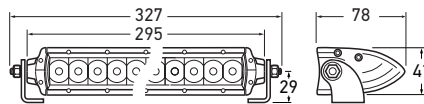
EnduroLED Series 2 with 2 rows of high output LEDs. Patented reflector design operates at high efficiency delivering more light per Watt with a 50,000+ hour life. Durable hard-coat Polycarbonate lens resists U.V damage. Large heatsink surface area draws heat away from circuits ensuring high performance and long life. Made in U.S.A.



Part Number	1GJ910442001	EnduroLED Spot /Flood Lamp - 750mm (30") LED Module
Mounting	Upright or Pendant	
Voltage	Multivolt™ (9-36V DC) Suitable for 12V and 24V electrical systems.	
Power Consumption	120W (Single lamp)	
Lead Lengths	Pigtail 495mm Harness 2489mm	- terminated to 2-pole DT connector - terminated to 2-pole DT connector
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.	
Accessories	8XS910446001	Clear Protective Cover (3 required for each light bar)

1GJ910442001 Spot Beam distances. Recorded with single lamp. Distance in metres.





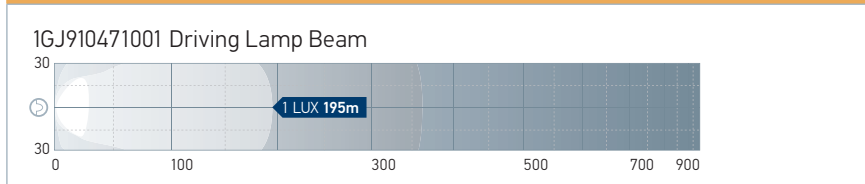
Part Numbers	1GJ910471001	EnduroLED Driving Lamp - 250mm (10") LED Module	
	1GJ910470001	EnduroLED Combo Lamp - 250mm (10") LED Module	
Mounting	Upright or Pendant		
Voltage	Multivolt™ (9-36V DC) Suitable for 12V and 24V electrical systems.		
Power Consumption	56.25W - 1GJ910471001 - 15 LEDs (single lamp) 37.5W - 1GJ910470001 - 10 LEDs (single lamp)		
Lead Lengths	Pigtail 495mm - terminated to 2-pole DT connector Harness 2489mm - terminated to 2-pole DT connector		
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.		

EnduroLED Series 1

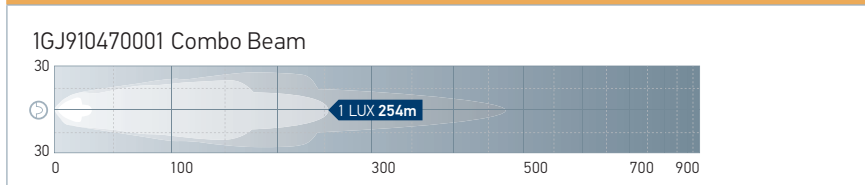
EnduroLED Series 1 with single row of high output LEDs. Patented reflector design operates at high efficiency delivering more light per Watt with a 50,000+ hour life. Durable hard-coat Polycarbonate lens resists U.V damage. Large heatsink surface area draws heat away from circuits ensuring high performance and long life. Made in U.S.A.



1GJ910471001 Driving Lamp Beam distances. Recorded with single lamp. Distance in metres.



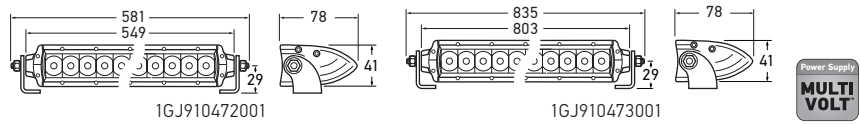
1GJ910470001 Combo Beam distances. Recorded with single lamp. Distance in metres.



FOG AND DRIVING

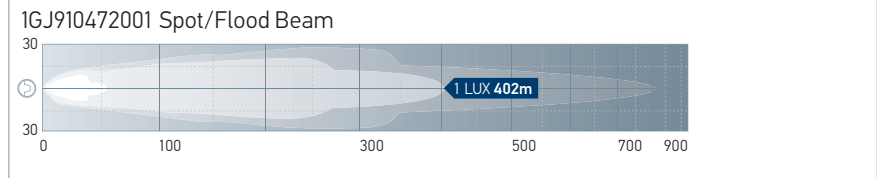
EnduroLED Series 1

EnduroLED Series 1 with single row of high output LEDs. Patented reflector design operates at high efficiency delivering more light per Watt with a 50,000+ hour life. Durable hard-coat Polycarbonate lens resists U.V damage. Large heatsink surface area draws heat away from circuits ensuring high performance and long life. Made in U.S.A.

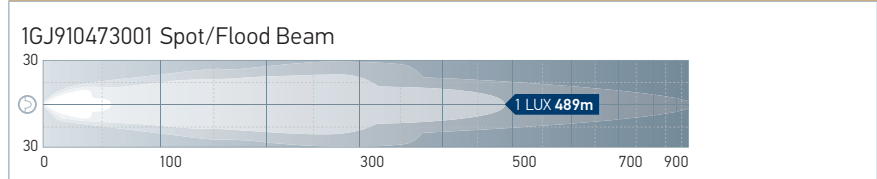


Part Numbers	1GJ910472001	Spot/Flood Combo - 500mm (20") LED Module	
	1GJ910473001	Spot/Flood Combo - 750mm (30") LED Module	
Voltage	Multivolt™ (9-36V DC) Suitable for 12V and 24V electrical systems.		
Power Consumption	75W - 1GJ910472001 - 20 LEDs (single lamp) 112.5W - 1GJ910473001 - 30 LEDs (single lamp)		
Mounting	Upright or Pendant		
Lead Lengths	1GJ910472001 and 1GJ910473001	Pigtail Harness	495mm 2-pole DT 2489mm 2-pole DT
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.		

1GJ910472001 Spot/Flood Combo Beam distances. Recorded with single lamp. Distance in metres.



1GJ910473001 Spot/Flood Combo Beam distances. Recorded with single lamp. Distance in metres.



DURALED® BL350

WORK LAMP – WHITE



NEW RELEASE



- 12 high performance LEDs.
- Luminaire Performance* 2200 lumens.
- Low power consumption of 25W.
- Thermally conductive non-metal housing.
- Dust and water-proof.

* Luminaire Performance refers to the real measured performance of the lamp, not the much higher theoretical performance of the LEDs, as is often used.

Work Lamps

Effective and efficient mobile lighting is an essential safety element to increase staff protection from accidents.



Contents

Work Lamps

LED Work Lamps.....	185-210
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Halogen Hand Held Lamps.....	221
Spare Parts and Accessories.....	222



Whatever you drive, good lighting of the outdoor workplace is an essential safety element necessary to protect operators and valuable equipment from accidents.

A large percentage of Australia's productive workforce is employed in the outdoors and is susceptible to changes in environmental conditions.

To enhance productivity and maximise the returns on capital intensive farming equipment and machinery, working hours are extended into the night. In the case of road works on major arterial roads, work is conducted at night to avoid major traffic delays during daytime and particularly rush hour.

Good lighting of the outdoor workplace is an essential safety element and necessary to protect valuable equipment and operators from accidents.

The superior performance of HELLA Work Lamps is recognised by industry worldwide, with the largest agriculture and construction equipment manufacturers now specifying HELLA lighting as original equipment.

In heavy duty work environments, LED Work Lamps offer decisive advantages over other lighting technologies. LED Work Lamps consume significantly less power than incandescent globes resulting in reduced strain on both alternator and battery. This makes LED Work Lamps the ideal lighting solution for work machines and equipment with low alternator performance or battery assisted power supply.

LED Technology

- Highly efficient light output
- Low power consumption
- Low maintenance
- Ultra long service life
- Multivolt™
- Water and dust-proof
- High resistance to vibration
- Lower operating temperatures

All the advantages of modern LED lighting technology are fully utilised in HELLA Work Lamps.

The choice of LEDs, the power supply and thermal management of the Work Lamp are key factors in achieving optimum light output (lumen). The quality of the components used by HELLA ensures, for example, that the light remains at a constant level of brightness in a variety of harsh conditions.

Good thermal management is necessary to ensure a long service life. When an LED is illuminated, heat is produced. As the current is increased to the lamp, more heat is generated. As LED temperature increases, light output decreases and the service life reduces. Efficient design for maximum heat dissipation must be ensured. HELLA uses the latest simulation programs during product development to ensure optimal heat dissipation through the housing.

All HELLA LED Work Lamps are designed to provide reliable protection against the LEDs overheating. This guarantees long service life as well as consistent light output.

Do you know what the actual light output of your Work Lamp is?

Some LED Work Lamp manufacturers typically specify a light output without factoring in the impact of temperature, optical losses or other real world effects on light output performance.



This however, does not correspond to the actual effective light output of the Work Lamp.

When these light values are cited, they are often unrealistically high. Such ratings are referred to as "calculated lumen" (clm) or "cold lumen".

The lumen ratings of all HELLA Work Lamps are always based on values obtained from measuring actual lamps. The lumen values correspond to the light that is actually emitted from the Work Lamp. HELLA LED Work Lamps emit their full output in ambient temperatures of up to 50°C.

What do GGVSEB and ADR stand for?



GGVSEB (previously GGVS) stands for the German regulation on carriage of dangerous goods by road, rail and inland waterway.

This regulation transposes Directive 2008/68/EC of the European Parliament and Council of 24 September 2008 on the inland transport of dangerous goods.

Work Lamps marked with this symbol are approved for mounting on transportation equipment which meets the regulations of GGVSEB/ADR.



How can you compare the Illumination of different Work Lamps?

Work Lamps can be compared by using an informative isolux lighting diagram. These diagrams/graphs display the projected light pattern on a surface in the form of isolux lines (lines of equal light intensity). To compare isolux diagrams, various criteria such as installation height, inclination angle and lux scale must be taken into account. An objective comparison is inaccurate if the criteria differ from one another. Comparing diagrams with different colour scales can be easily misinterpreted.

What is the difference between the different types of illumination?

Long Range

Narrow beam range designed to illuminate distant objects between 40m-150m (depending on installation height and inclination angle).

Close Range

Spread beam designed to illuminate an area near the vehicle, range approximately 5m to 40m (depending on installation height and inclination angle).

Flood

Ultra wide spread beam designed to illuminate a large area adjacent to the vehicle, range up to 10m (depending on installation height and inclination angle).

Electromagnetic Compatibility (EMC)

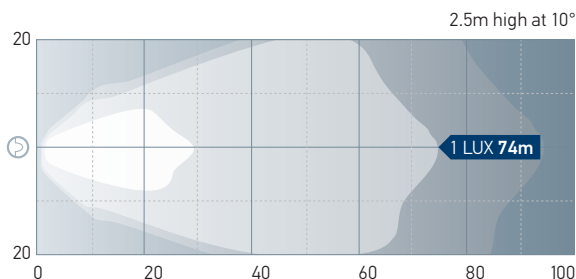
Electromagnetic Compatibility (EMC) is an increasingly relevant feature for emergency and signal warning lighting. As electronic devices become more common, so does the risk of unintended interference that can have adverse effects on other sensitive devices such as radios or communication equipment.

HELLA lighting products are designed and tested to reduce the possible risk of electromagnetic interference, both emissions as well as susceptibility, to limits defined in international standards.

As prescribed by Australian legislation, under circumstances, electronic products sold in Australia must be labelled with the C-tick or RCM marks. HELLA products are designed, tested and labelled to meet the requirements of this legislation

IP Ratings

See pages 229 (Markers & Signals) and 530 for full IP rating descriptions and what they mean.



Isolux Lighting Diagram

Isolux diagrams display the projected light pattern on a surface in the form of isolux lines (lines of equal light intensity).

Oliver uses Eliver do you?



ELIVER – THE ONLINE COMPARISON TOOL

Oliver is looking for just the right Work Lamp for his tractor. ELIVER – our unique comparison tool – helps him find the best possible Work Lamp for his application.

With ELIVER, you can easily compare our best Work Lamps online – and get a realistic idea of the light yield. Get the right light for your everyday work.

Discover ELIVER – and be as happy as Oliver!



**ELIVER – Compare Work Lamps, Auxiliary Headlamps,
Beacons and Optical Warning Systems online.**

Technology with Vision



HALOGEN AND LED HEAD-TO-HEAD



The Past:
6 x Halogen Work Lamps
Alternator load 27.5A



Upgrade Option 1:
4 x Halogen Work Lamps, 2 x LED Work Lamps
Alternator load 22.0A



Upgrade Option 2:
2 x Halogen Work Lamps, 4 x LED Work Lamps
Alternator load 16.5A



Upgrade Option 3: The Future
6 x LED Work Lamps
Alternator load 11.0A

RFCommSafe™

LED Lighting Products with Superior Electromagnetic Compatibility



DuraLED® WL200

DuraLED® WL1300

AS3000 Long Range

AS3000 Close Range

HELLA LED Work Lamps – quality with performance

Electromagnetic Compatibility (EMC) is an increasingly relevant safety concern for many emergency, mining and industrial applications. As electronic devices such as LED lamps become more common, so does the risk of unintended electromagnetic interference (EMI) from inferior lamps that can have adverse effects on radios and other communication equipment.

HELLA Lamps marketed as RFCommSafe™ are designed to go well beyond the regulatory requirements as defined in international standards such as EN 55015, CISPR 15, CISPR 25 or relevant UNECE R10 Standards.



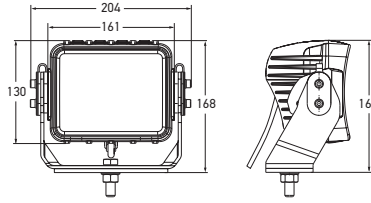
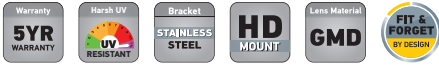
RFCommSafe™ products are specified by the New Zealand Fire Service



Technology with Vision



WORK LAMPS



All dimensions in mm.

AS3000 RFCommSafe™ LED Work Lamps – Heavy Duty 12V DC

The AS3000 is a high output, compact and highly versatile Heavy Duty Work Lamp for use on mining machinery. A multi-adjustable bracket ensures accurate, stable aiming in high vibration environments. Option of three light patterns, long range, close range or flood.

Part Numbers	1GA 958 060-501	LONG RANGE
	1GA 958 060-401	CLOSE RANGE
	1GA 958 060-601	FLOOD
Mounting	Upright or Pendant.	
Voltage	12V DC	
Power Consumption	High: 45W Low: 20W	
Max. Light Output	3000 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2.5 metres	
Housing	Aluminium	
Lens Material	Grilamid®	
Compliance		



P/N 1GA 958 060-401 Close Range



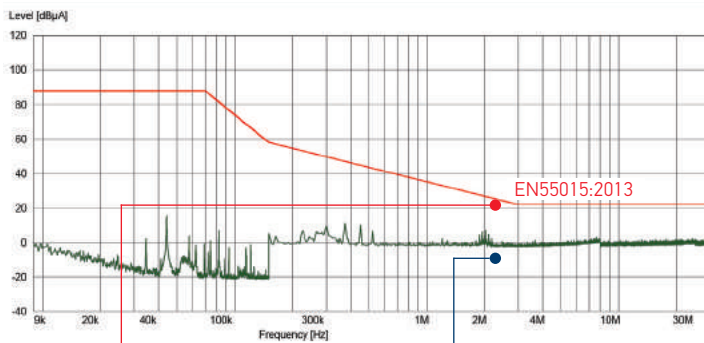
Rear View



WORK LAMPS

RFCommSafe™

Electromagnetic Scan of Radiated Emissions



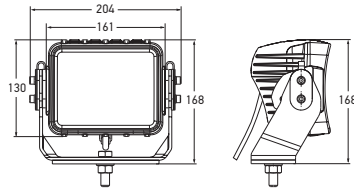
Maximum electromagnetic emission level set by international standards

Electromagnetic measurements of RFCommSafe™ products are typically at background noise level



AS3000 RCommsafe™ LED Work Lamps – Heavy Duty 24V DC

The AS3000 is a high output, compact and highly versatile Heavy Duty Work Lamp for use on mining machinery. A multi-adjustable bracket ensures accurate, stable aiming in high vibration environments. Option of three light patterns, long range, close range or flood.



All dimensions in mm.

- Dual Intensity: Switch Control
- 14 LED
- FIT & FORGET BY DESIGN
- 5YR WARRANTY
- Harsh UV UV RESISTANT
- Bracket STAINLESS STEEL
- HD MOUNT
- Lens Material GMD
- RCommsafe™

Part Numbers	1GA 958 060-111	LONG RANGE
	1GA 958 060-011	CLOSE RANGE
	1GA 958 060-201	FLOOD
Mounting	Upright or Pendant.	
Voltage	24V DC	
Power Consumption	High: 45W Low: 12W	
Max. Light Output	3000 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2.5 metres	
Housing	Aluminium	
Lens Material	Grilamid®	
Compliance		



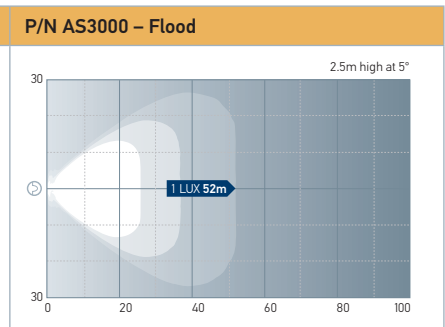
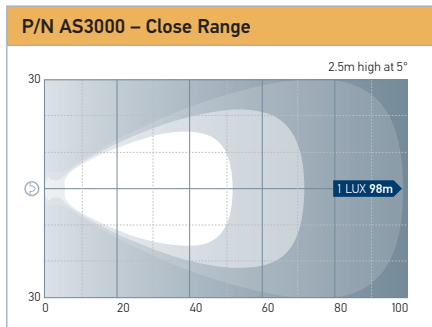
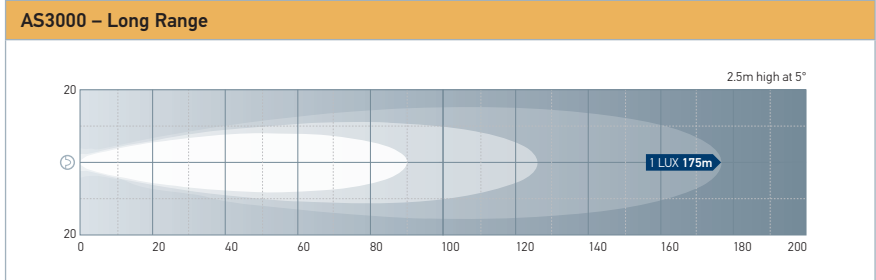
P/N 1GA 958 060-111 Long Range



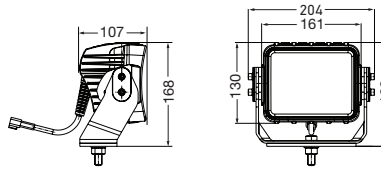
P/N 1GA 958 060-011 Close Range



P/N 1GA 958 060-201 Flood



WORK LAMPS

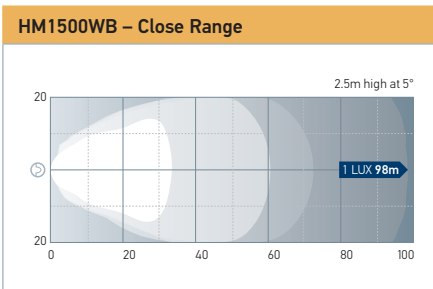
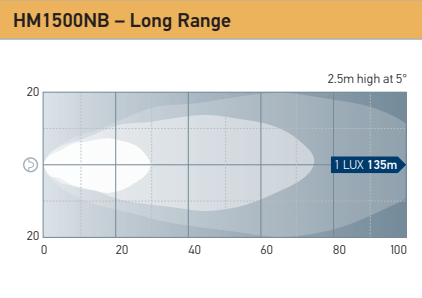
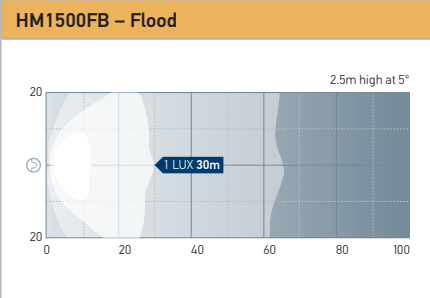


All dimensions in mm.

AS5000 LED

Equipped with 24 high performance LEDs (5700°K) for powerful white light output rated at 5000 lumens. Features robust aluminium die-cast housing, stainless-steel bracket and Free-Form (FF) reflector for consistent close-range illumination. Integrated DT socket electrical connection. Heavy duty Trunnion bracket and Grilamid® nylon lens.

Part Numbers	HM1500FB	FLOOD
	HM1500NB	LONG RANGE
	HM1500WB	CLOSE RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	60W	
Max. Light Output	5000 lumens	
Temperature Range	-40°C to +50°C	
Cable Length	Integrated DT Socket.	
Housing	Aluminium	
Lens Material	Grilamid®	
Protection	Reverse Polarity and Transient Voltage Suppressor (TVS). Fully sealed against dust and moisture to IP6K7 and IP6K9K.	
Compliance		



Multi-adjustable Trunnion bracket ensures accurate and stable aiming in a high vibration environment in all assembly positions. Bracket locates the axis of rotation in the centre of gravity.

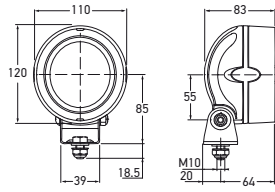


High output, compact and highly versatile heavy duty Work Lamps.
HELLA SUPERIOR PERFORMANCE

WORK LAMPS

Close Range Mega Beam Gen.III LED Work Lamp

Mega Beam Gen.III LED Multivolt™ Work Lamps feature **4 high performance white LEDs (6500°K)** providing consistent close range illumination with 12 or 24V DC systems. High-sheen metallised Free-Form (FF) reflector and clear glass lens. Housed in an impact-resistant aluminium die-cast and UV plastic housing, fully sealed for an ultra long service life in demanding high vibration environments.

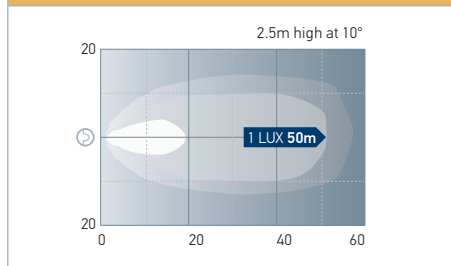


All dimensions in mm.



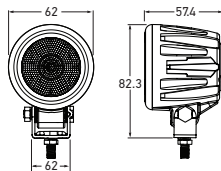
Part Number	1539LED	CLOSE RANGE
Mounting	Upright, Side or Pendant	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	13W	
Max. Light Output	800 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2 metres	
Housing	Aluminium	
Lens Material	Glass	
Compliance		

1539LED – Close Range



Compact LED Work light

The Compact LED Work Light is a lightweight close range light designed for general illumination in areas where physical restraints in mounting locations exist.



All dimensions in mm.



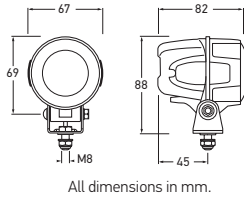
Part Number	HM1590WB	CLOSE RANGE
Mounting	Upright or Pendant	
Voltage	Multivolt™ (9-64V DC)	
Power Consumption	6W	
Max. Light Output	900 lumens	
Temperature Range	-40°C to +60°C	
Protection	Reverse Polarity and Transient Voltage Suppressor (TVS). Fully sealed against dust and moisture to IP6K7 and IP6K9K.	
Housing	Aluminium	
Lens Material	Polycarbonate	
Accessory	9.1537.08 Universal Magnetic Mounting Bracket	
Compliance		



9.1537.08

See page 147 for Work Lamp Accessories.

WORK LAMPS



All dimensions in mm.

Part Numbers	1560LED	CLOSE RANGE
	1560LEDLR	LONG RANGE
Mounting	Stainless-steel bracket for Upright or Pendant mounting.	
Voltage	Multivolt™ (9-50V DC) * not suitable for 48V DC forklifts (max. vehicle system voltage 42V DC).	
Power Consumption	15W	
Max. Light Output	800 lumens	
Temperature Range	-40°C to +50°C	
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection.	
Housing	Aluminium	
Lens Material	Grilamid®	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mounting Bracket ①
Compliance		
See page 147 for Work Lamp Accessories.		

Module 50 LED

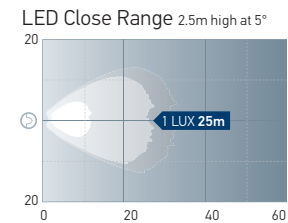
The smallest Work Lamp in the HELLA range. Powerful and ultra-compact, Module 50 LED is the perfect choice for limited space setups. The single multichip LED (6500°K) light output is 800 lumens which is well suited to close-range illumination. A specially developed nylon lens system concentrates the light and distributes it to the range of operation. The integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating with voltage fluctuations between 9 and 50 Volts DC.



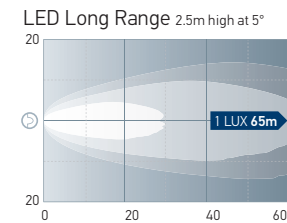
① 9.1517.08

WORK LAMPS

1560LED – Close Range



1560LEDLR – Long Range



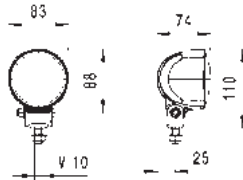
**Module 70 Gen.IV
LED Work Lamps**

With **3 high performance multichip LEDs**, the Module 70 Gen.IV LED Work Lamp is rated to **2500 lumens** while consuming just **30 watts**, with a colour temperature of **6500°K**.

Multi-volt compatible and can therefore be operated with a 12 or 24 Volt DC power supply. Integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating when operating voltage fluctuates between 9 and 33 Volts DC. In addition, temperature sensors protect the worklight from overheating.



P/N 1567LED

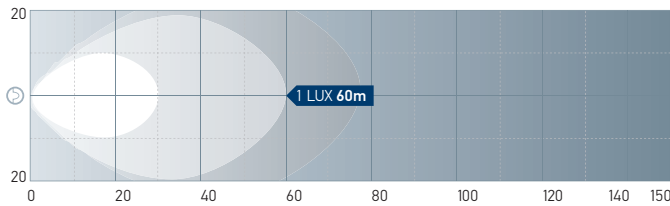


All dimensions in mm.

Part Numbers	1567LED	CLOSE RANGE
	1567LEDLR	LONG RANGE
	1567LEDEW	EXTRA WIDE
Mounting	Upright or Pendant	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	30W	
Max. Light Output	2500 lumens	
Temperature Range	-40°C to +50°C	
Cable Length	2 metres	
Protection	Reverse polarity and voltage spike protection. IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) IP 6K8	
Housing	Aluminium	
Lens Material	Glass	
Compliance		

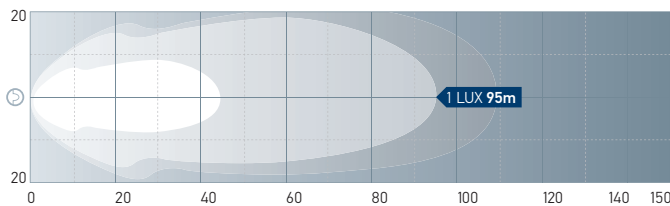
1567LED – Close Range

Module 70 GEN IV Close Range 2.5m high at 12°



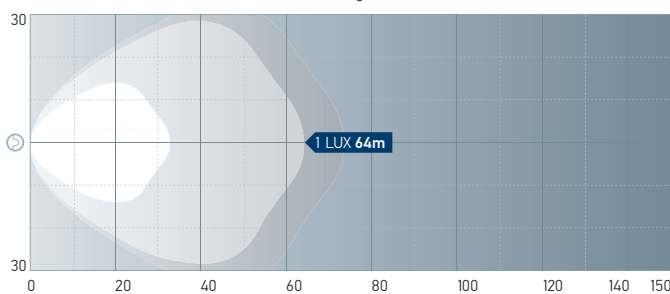
1567LEDLR – Long Range

Module 70 GEN IV Long Range 2.5m high at 12°

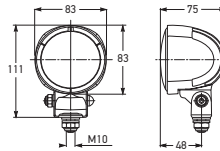


1567LEDEW – Extra Wide

Module 70 GEN IV Extra Wide 2.5m high at 12°



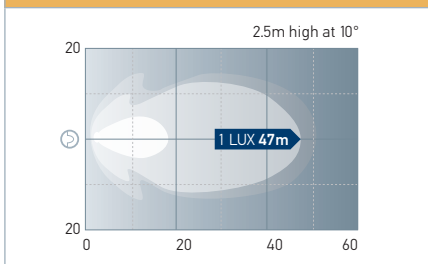
WORK LAMPS



All dimensions in mm.

Part Number	1547LED	CLOSE RANGE
Mounting	Upright, Side or Pendant	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	13W	
Max. Light Output	800 lumens	
Temperature Range	-40°C to +50°C	
Cable Length	2 metres	
Protection	Reverse Polarity and Transient Voltage Suppressor (TVS). Fully sealed against dust and moisture to IP6K9K and IPX7.	
Housing	Aluminium	
Lens Material	Glass	
Compliance	(E) ECE-R10	
Accessories	HM70PR HM70PI 9.1517.08 9.HM70BR	Pipe Mount Tube Attachment (rotating) ① Pipe Mount Tube Attachment ② Universal Pedestal Mounting Bracket ③ Module 70 Stainless-steel Bracket

1547LED – Close Range



Close Range M70 Gen.III LED Work Lamp

The Module 70 Gen.III LED Work Lamp provides **800 lumens**. Equipped with **4 high performance LEDs (6500°K)**, high-sheen metallised Free-Form (FF) reflector and clear glass lens for consistent close-range illumination. Housed in an impact-resistant aluminium die-cast housing, fully sealed for an ultra long service life in demanding high vibration environments.



① HM70PR

② HM70PI

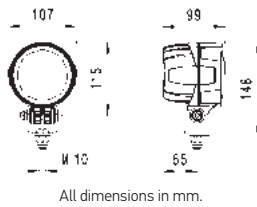
③ 9.1517.08

Module 90 LED Worklamps

The Module 90 LED is a robust Work Lamp in a universal, attractive design. The black aluminum housing features cooling fins which ensure the required heat dissipation from the **4 high-power LEDs**. In addition, temperature sensors protect the Work Lamp from overheating. Thanks to its powerful light output of **3400 lumens**, the module 90 LED can replace Xenon Work Lamps, despite consuming just **36W of power**. This makes this LED Work Lamp ideal for use on battery-operated vehicles or on vehicles where the alternator is already under a heavy load.

The light is distributed by a specially developed multi-faceted reflector, thus ensuring homogeneous illumination. The light can be operated at both 12V DC and 24V DC. The integrated electronics protect the device in the event of a polarity reversal and guarantee constant brightness, even when operating with voltage fluctuations between 9 and 33 volts DC.

At **6500°K**, the light from the LED Work Lamp is very similar to daylight. This helps to distinguish colors more easily in the dark, and thus facilitate the human eye's sensory perception task.



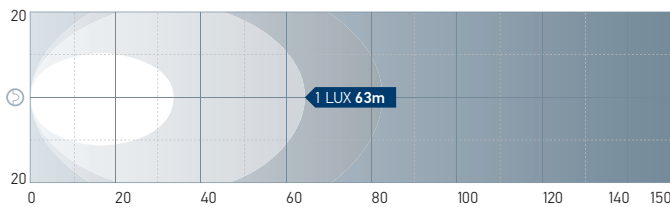
Part Numbers	1564LED	CLOSE RANGE
	1564LEDLR	LONG RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	36W	
Max. Light Output	3400 lumens	
Temperature Range	-40°C to +50°C	
Protection	Reverse polarity and voltage spike protection. IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) IP 6K8	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Grilamid®	
Spare Part	9.1551LED.06 DT Pigtail Loom. 2.0 metre.	
Compliance		



P/N 1564LED

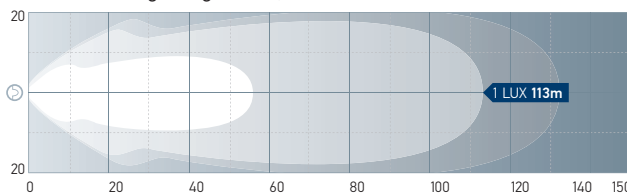
1564LED – Close Range

Module 90 Close Range 2.5m high at 12°



1564LEDLR – Long Range

Module 90 Long Range 2.5m high at 12°



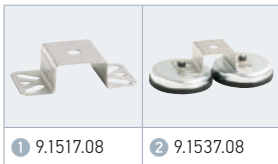
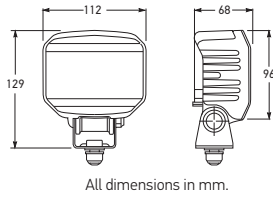
MODULE 90 LED Work Lamps

- Powerful LED Work Lamp.
- Lighting performance at xenon level.
- Compact and space-saving design.



**Power Beam 1000
LED Work Lamps**

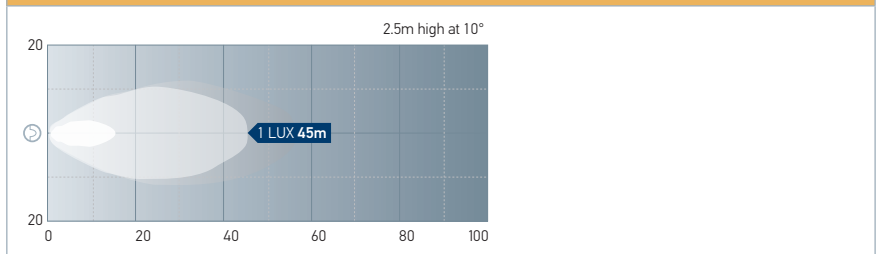
LED Work Lamp with **6 high performance LEDs (6500°K)** for a powerful white light. Features robust aluminium die-cast housing, stainless steel bracket and Free-Form (FF) reflector with clear lens for consistent close range illumination. Integrated DT socket electrical connection.



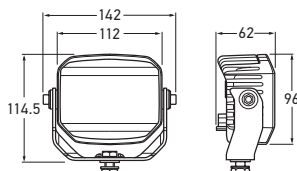
Part Numbers	1551LED	CLOSE RANGE
	1551LEDPMA (Grilamid®)	CLOSE RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	18W	
Max. Light Output	850 lumens	
Temperature Range	-40°C to +50°C	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Glass or Grilamid®	
Compliance	Ei CE	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessories	9.1517.08 9.1537.08	Universal Pedestal Mounting Bracket ① Universal Magnetic Mounting Bracket ②

See page 147 for Work Lamp Accessories.

1551LED – Close Range



WORK LAMPS



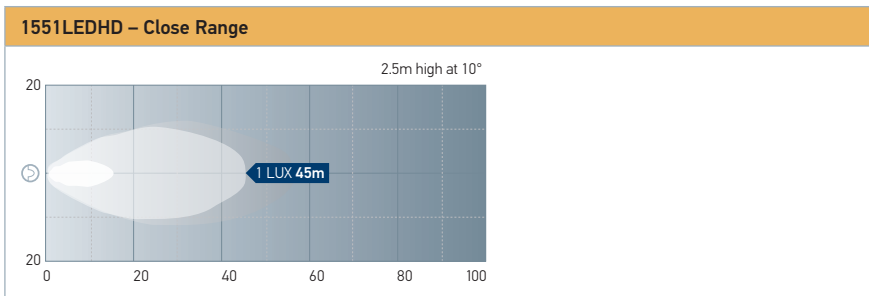
All dimensions in mm.

Power Beam 1000 LED Work Lamp – Heavy Duty

LED Work Lamp with **6 high performance white LEDs (6500°K)** for a powerful white light. Features robust aluminium die-cast housing, stainless steel heavy duty bracket and Free-Form (FF) reflector with clear hardened glass lens for consistent close range illumination. Integrated DT socket electrical connection.



Part Number	1551LEDHD	CLOSE RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	18W	
Max. Light Output	850 lumens	
Temperature Range	-40°C to +50°C	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Glass	
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres	
Compliance		
See page 147 for Work Lamp Accessories.		



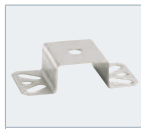
WORK LAMPS

**Power Beam 1500
LED Work Lamps**

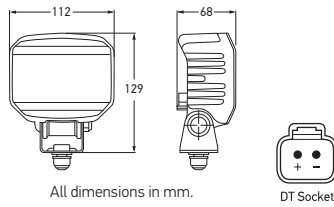
Premium LED Work Lamp with **6 high performance LEDs (6500°K)**. Aluminium housing. Light output rated at **1300 lumens**. Grilamid® nylon lens.



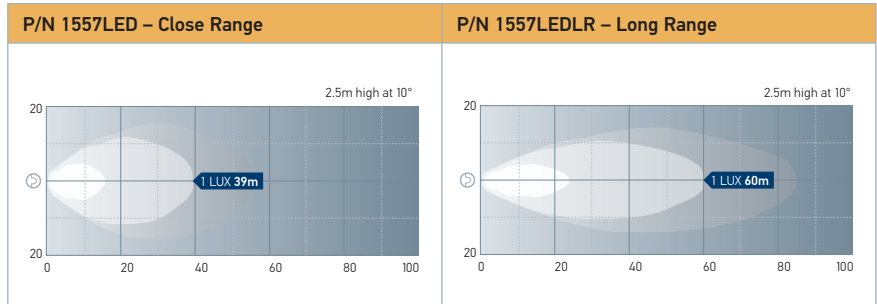
P/N 1557LED



1 9.1517.08

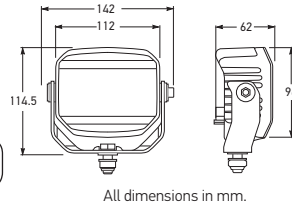


Part Numbers	1557LED	CLOSE RANGE
	1557LEDLR	LONG RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	22W	
Max. Light Output	1300 lumens	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Housing	Aluminium	
Lens Material	Grilamid®	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mount
Compliance		
See page 147 for Work Lamp Accessories.		



WORK LAMPS

WORK LAMPS



All dimensions in mm.

Power Beam 1500 LED Work Lamps – Heavy Duty

Premium Heavy Duty LED Work Lamp with aluminium housing and **heavy duty Trunnion bracket**. Light output rated at **1300 lumens**. Grilamid® nylon lens.

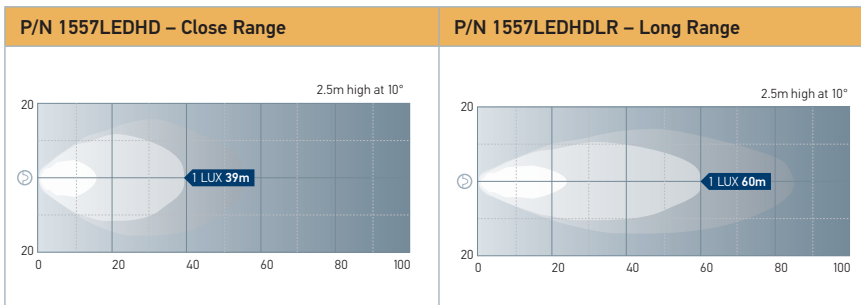


P/N 1557LEDHD



Part Number	1557LEDHD	CLOSE RANGE
	1557LEDHDLR	LONG RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	22W	
Max. Light Output	1300 lumens	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Housing	Aluminium	
Lens Material	Grilamid®	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Compliance		

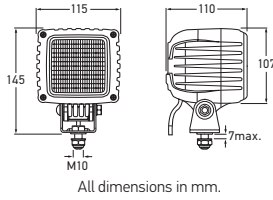
See page 147 for Work Lamp Accessories.



**Power Beam 1800
LED Work Lamps**

An ideal LED Work Lamp that combines a powerful light output with a practical design that is designed so that it can be used anywhere thanks to its compact dimensions. The light output from the **6 high-power LEDs** is an impressive **1850 lumens**, while consuming just **36 watts**, with a color temperature of **6500°K**, similar to daylight.

Light is distributed by a specially developed multi-faceted reflector, which ensures homogeneous illumination. Thanks to different lenses, this Work Lamp can be used for close as well as long-range illumination.



Part Numbers		
1561LED-12V		CLOSE RANGE
1561LED-24V		CLOSE RANGE
1561LEDLR-12V		LONG RANGE
1561LEDLR-24V		LONG RANGE

Voltage	12 Volts DC	10.5-16 V DC	24 Volts DC	22-32 V DC
Power Consumption	36W			
Max. Light Output	1850 lumens			
Protection	IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) IP 6K8			
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)			
Housing	Aluminium			
Lens Material	Grilamid®			
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres		
Compliance	ECE-R10			

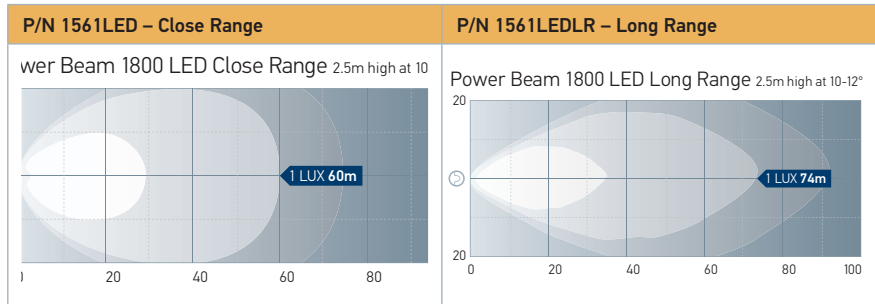


P/N 1555LED



The Power Beam 1800 is equipped with an additional dimming function, achieved by means of the adjustable duty cycle of a pulse width-modulated signal (PWM). This can be facilitated by inter-connecting a conventional LED PWM dimmer in the supply line. (max. input voltage for light 1.5 A; frequency 100 - 1,000 Hz).

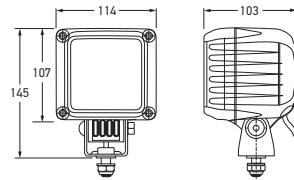
Caution: These electronics are single voltage electronics, meaning a 12 or 24-volt DC operating voltage (for details, refer to the range overview).



Power Beam 1800 LED Work Lamps

- Compact design with high light output
- Innovative worklight with dimming function
- For universal use.

WORK LAMPS



All dimensions in mm.

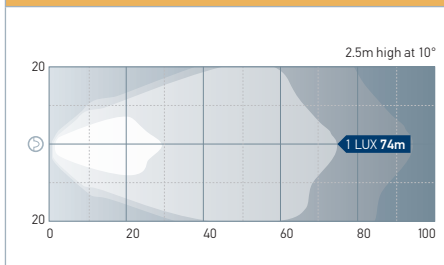
Power Beam 2000 LED Work Lamps

Extremely powerful LED Work Lamp equipped with **16 high-power LEDs (6500°K)** for a superior white light output similar to XGD, rated at **2200 lumens**. Features robust aluminium die-cast housing, stainless-steel bracket and Free-Form (FF) reflector with nylon lens for consistent long-range illumination without harsh contrasts. Also available with integrated DT input socket (Part No. 1553LEDDT).



Part Number	1553LED	CLOSE RANGE
	1553LEDDT (DT Socket)	CLOSE RANGE
Mounting	Upright or Pendant	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	43W	
Max. Light Output	2200 lumens	
Temperature Range	-40°C to +50°C	
Protection	Reverse Polarity and Transient Voltage Suppressor (TVS). Fully sealed against dust and moisture to IP6K7 and IP6K9K.	
Cable Length	1553LED – 2.0 metres 1533LEDDT – Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Grilamid®	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mount ¹
Compliance		

1553LED – Close Range

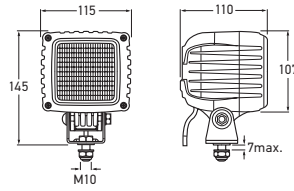


Superior white light output (6500°K)

EXTREMELY POWERFUL

Power Beam 3000 LED Work Lamps

Extremely powerful and compact LED Work Lamp equipped with a total of **16 high-power LEDs (6500°K)** for an unbeatable white light output far superior to Xenon Gas Discharge, rated at **3000 lumens**. Equipped with sturdy die-cast aluminium housing, stainless-steel bracket, nylon dispersion lens and Free-Form (FF) reflector for optimum illumination and maximum mechanical resistance. Available with heavy duty Trunnion mounting bracket (1555LEDHD).



All dimensions in mm.

Warranty **5YR** WARRANTY
Harsh UV **UV RESISTANT**
Bracket **STAINLESS STEEL**
Lens Material **GMD**
16 LED
Power Supply **MULTI VOLT**



Part Numbers	1555LED	CLOSE RANGE
	1555LEDLR	LONG RANGE
	1555LEDHD	CLOSE RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	43W	
Temperature Range	-40°C to +50°C	
Max. Light Output	3000 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2.0 metres	
Housing	Aluminium	
Lens Material	Grilamid®	
Accessory	9.1517.08	Universal Pedestal Mount ¹
Compliance		



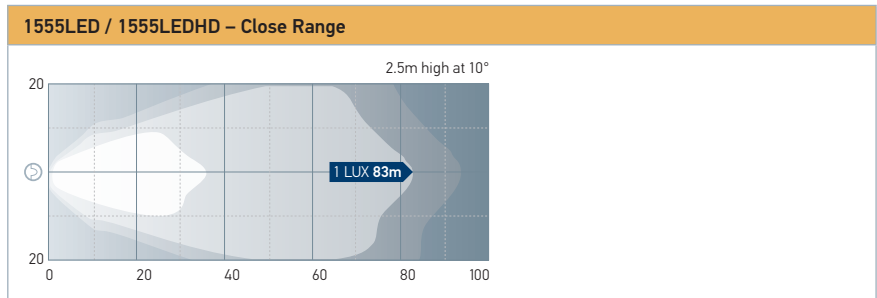
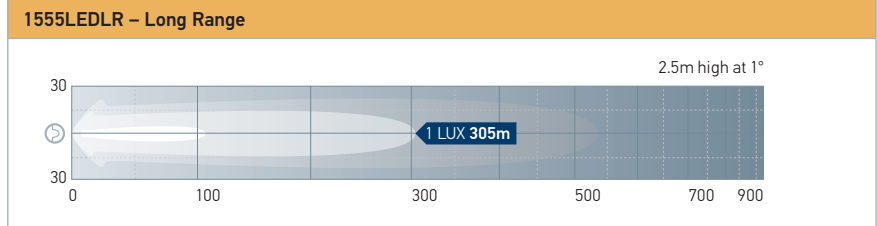
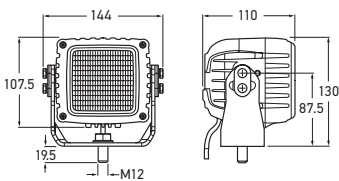
P/N 1555LED



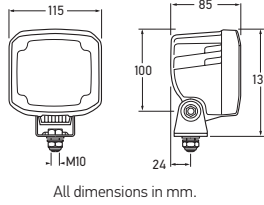
P/N 1555LEDLR



P/N 1555LEDHD



WORK LAMPS



All dimensions in mm.

Part Numbers	1562LED	CLOSE RANGE
	1562LEDP	CLOSE RANGE
	1562LEDLR	LONG RANGE
	1562LEDWB	EXTRA WIDE BEAM
	1562LEDPB	PENCIL BEAM

Mounting Upright – 1562LED
Pendant – 1562LEDP
Upright or Pendant – 1562LEDLR, 1562LEDWB, 1562LEDPB

Voltage	Multivolt™ (9-33V DC)
Power Consumption	30W
Max. Light Output	2200 lumens
Temperature Range	-40°C to +50°C
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection.
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)
Housing	Aluminium
Lens Material	Grilamid®
Compliance	
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres
Accessory	9.1517.08 Universal Pedestal Mount

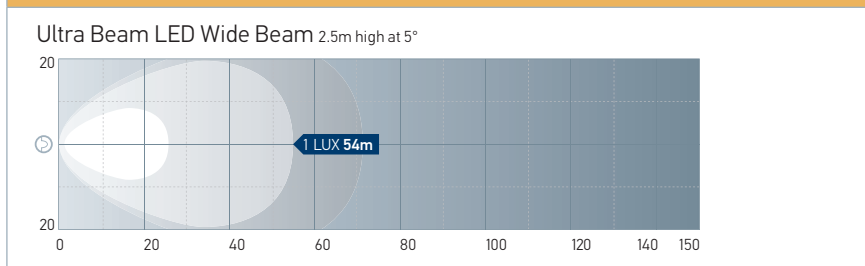
See page 147 for Work Lamp Accessories.

Ultra Beam LED Work Lamps

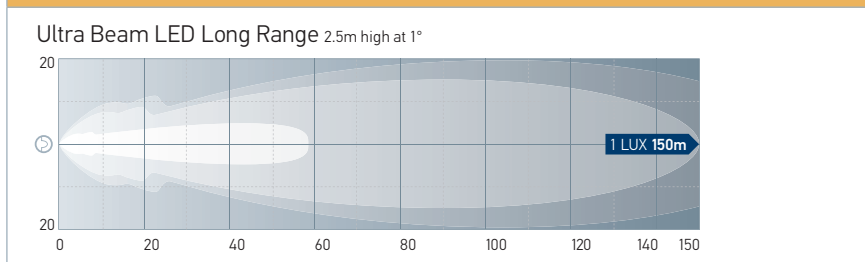
The popular Ultra Beam series has now been expanded to include an LED version. With **9 high power LEDs (6500°K)** the light output is a powerful **2200 lumens**. The light is distributed by a specially developed multi-faceted reflector and nylon lens, thus ensuring homogeneous illumination. The integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating with voltage fluctuations between 9 and 33 Volts DC.



1562LED / 1562LEDP – Close Range

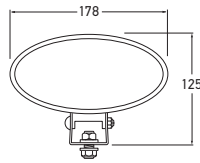


1562LEDLR – Long Range



Oval 90 LED Gen.II Work Lamps

Oval 90 LED Work Lamp featuring **10 high power LEDs** providing **4300 lumens** with a colour temperature of **6500°K**. High quality aluminium housing and Grilamid® nylon lens. Suitable for close range or long range illumination.



All dimensions in mm.



P/N 1559LED



P/N 1559LEDLR



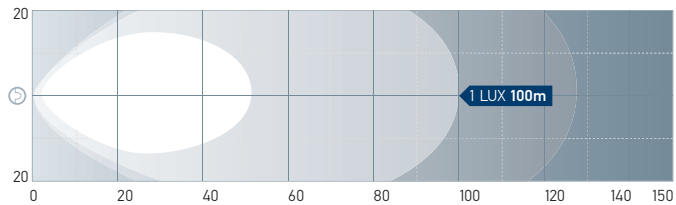
Part Numbers	1559LED	CLOSE RANGE
	1559LEDLR	LONG RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	75W (12V DC) 65W (24V DC)	
Max. Light Output	4300 lumens	
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection.	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Grilamid®	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mount ①
Compliance		
See page 147 for Work Lamp Accessories.		



① 9.1517.08

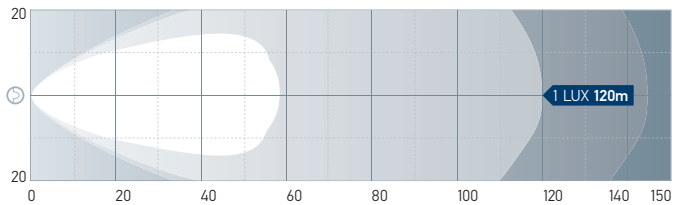
1559LED – Close Range

Oval 90 GEN II Close Range 2.5m high at 12°



1559LEDLR – Long Range

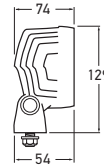
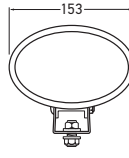
Oval 90 GEN II Long Range 2.5m high at 12°



WORK LAMPS



DT Socket



All dimensions in mm.

Oval 100 LED Gen.II Work Lamps

High quality aluminium housing and Grilamid® nylon lens. Features **8 high power LEDs** (6500°K) providing **4000 lumens**.

Part Numbers	1558LED	CLOSE RANGE
	1558LEDLR	LONG RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	56W (12V DC) 54W (24V DC)	
Max. Light Output	4000 lumens	
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection.	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Grilamid®	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mount ⓘ
Compliance		
See page 147 for Work Lamp Accessories.		



P/N 1558LED



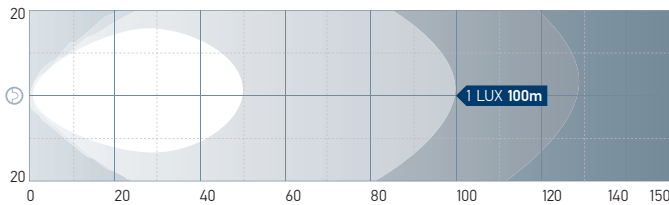
P/N 1558LEDLR



ⓘ 9.1517.08

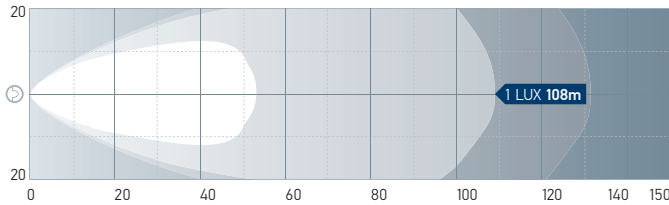
1558LED – Close Range

Oval 100 GEN II Close Range 2.5m high at 12°



1558LEDLR – Long Range

Oval 100 GEN II Long Range 2.5m high at 12°

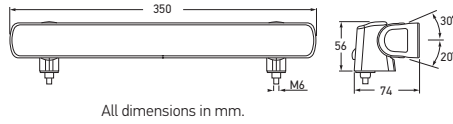


BL350 LED Work Lamps

The BL350 LED Work Lamp incorporates the latest technology to offer a powerful, durable lighting solution for a multitude of applications.

Featuring energy efficient Multivolt™ technology, this Work Lamp will appeal to applications where energy efficiency and reliability are a must. These lamps offer a formidable net light output of **2200 lumens**.

Designed with Fit and Forget durability in mind, the BL350 LED Work Lamp features a highly impact-resistant lens made of Grilamid®, a crystal clear polyamide with superior tolerance to chemical and long term harsh UV exposure, as well as a technologically advanced thermally conductive non-metal housing.



Dual Intensity: Switch Control

12 LED

FIT & FORGET BY DESIGN

Warranty **5YR WARRANTY**

Power Supply **MULTI VOLT**

Housing **CORROSION PROOF**

Lens Material **GMD**

Harsh UV **UV RESISTANT**

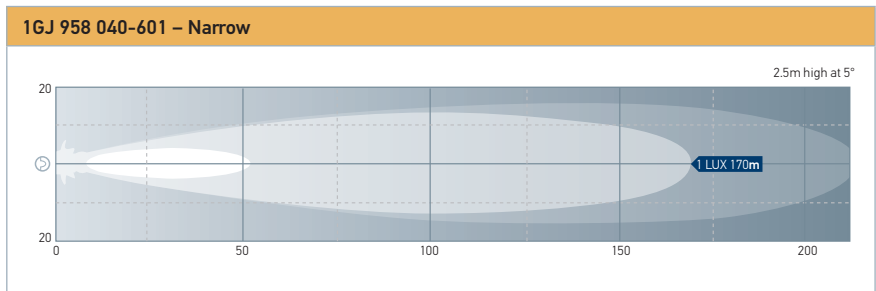
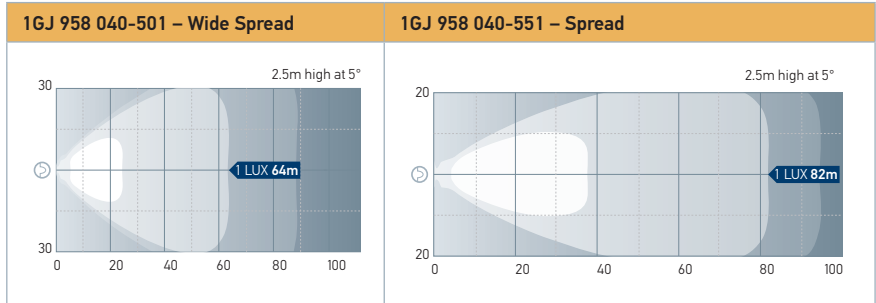
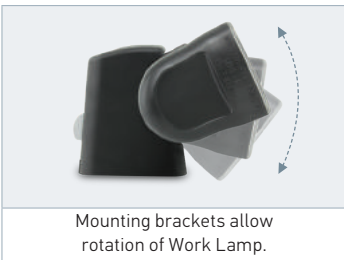
Part Numbers	1GJ 958 040-501	WIDE SPREAD
	1GJ 958 040-551	SPREAD
	1GJ 958 040-601	NARROW
Mounting	Upright or Pendant.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	25W	
Max. Light Output	2200 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2.5 metres	
Housing	Thermally Conductive Plastic	
Lens Material	Grilamid®	
Compliance		



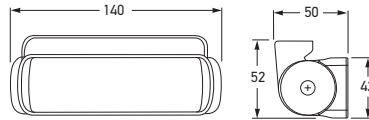
P/N 1GJ 958 040-501



P/N 1GJ 958 040-601



WORK LAMPS



All dimensions in mm.

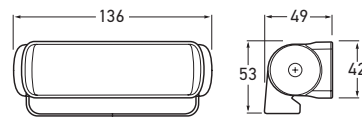
Part Numbers	12 VOLT DC	24 VOLT DC	CLOSE RANGE
		98067038	
Mounting	Upright or Pendant.		
Voltage	12V DC or 24V DC		
Power Consumption	4W		
Max. Light Output	150 lumens		
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	2.5 metres		
Lens Material	Grilamid®		
Housing	Plastic		
Compliance			

DuraLED® WL200 RFFCommSafe™ Work Lamps

LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Hermetically sealed against dust and moisture. Featuring a tough, chemical resistant Grilamid® lens.



WORK LAMPS



All dimensions in mm.

Part Numbers	98067020	NARROW BEAM
		98067030
Mounting	Stainless-steel bracket for Upright or Pendant mounting.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	< 3W	
Max. Light Output	200 lumens	
Protection	Fully sealed against dust and moisture to IP67.	
Cable Length	2.5 metres	
Lens Material	Grilamid®	
Housing	Plastic	
Compliance		

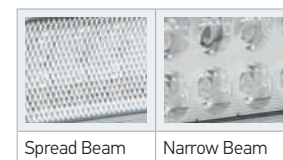
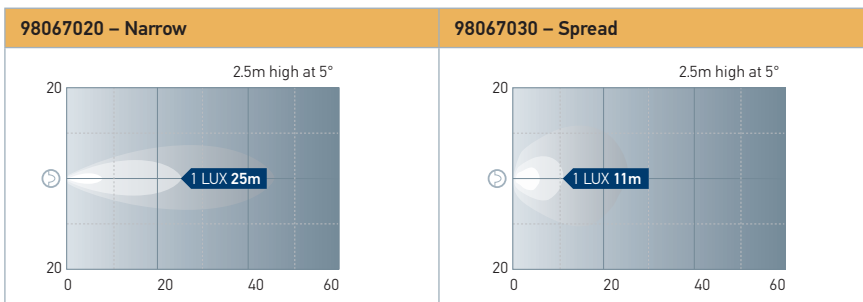
DuraLED® WL200 Work Lamps

High-intensity LED Work Lamps suitable for interior or exterior general and work area lighting rated at 200 lumens.

Features compact and lightweight design (only 250g including cable). Equipped with ultra-durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance, and a sturdy stainless-steel mounting bracket, which secures the lamp from both sides whilst allowing easy adjustment of the vertical light beam angle.

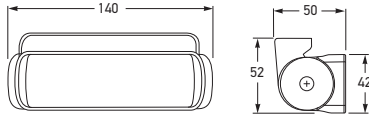


P/N 98067020



DuraLED® WL550
LED Work Lamps

LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, chemical resistant Grilamid® lens. Option of two light patterns, spread or wide spread.



All dimensions in mm.

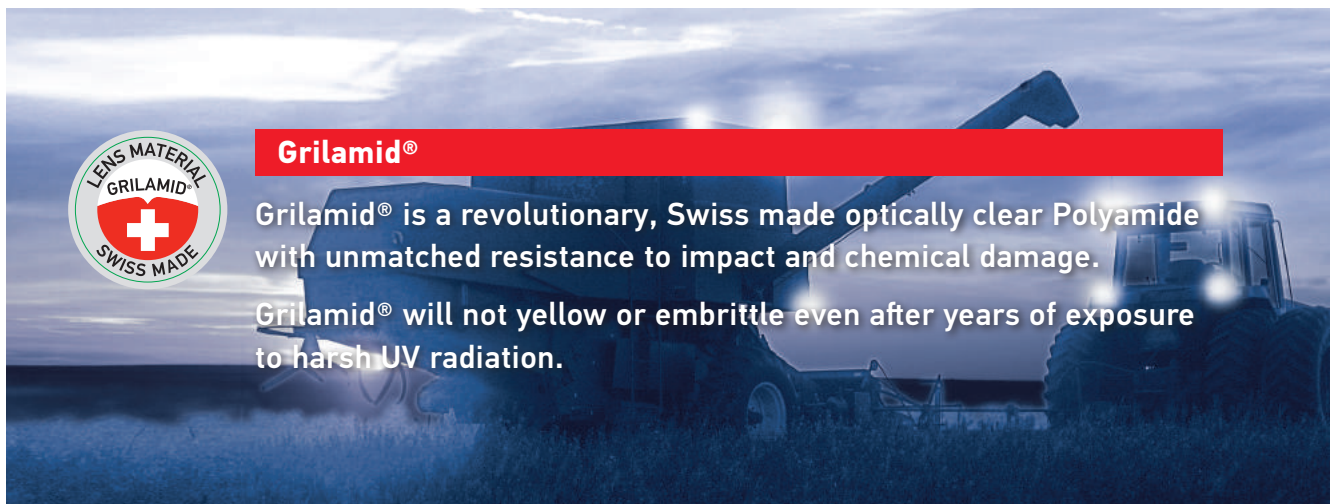
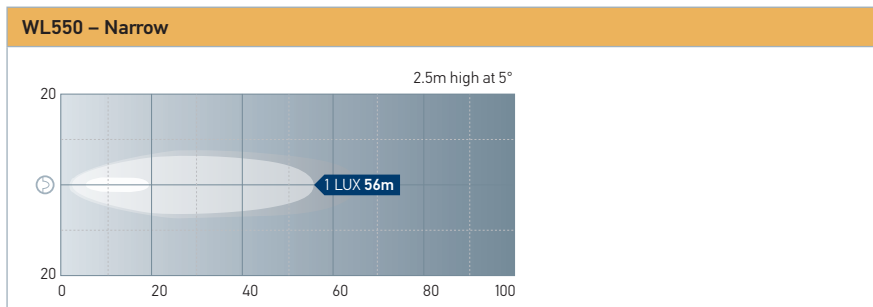
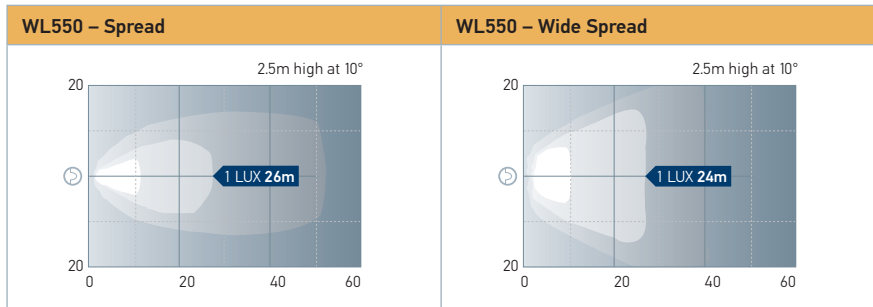
Part Numbers	NARROW	SPREAD	WIDE SPREAD
	98057330	98057310	98057300
Mounting	Upright or Pendant.		
Voltage	Multivolt™ (9-33V DC)		
Power Consumption	7W		
Max. Light Output	550 lumens		
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Grilamid®		
Housing	Thermally Conductive Plastic		
Compliance			



P/N 98057300



WORK LAMPS

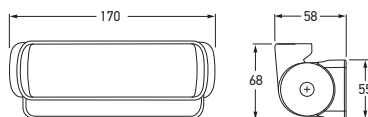


Grilamid®

Grilamid® is a revolutionary, Swiss made optically clear Polyamide with unmatched resistance to impact and chemical damage.

Grilamid® will not yellow or embrittle even after years of exposure to harsh UV radiation.

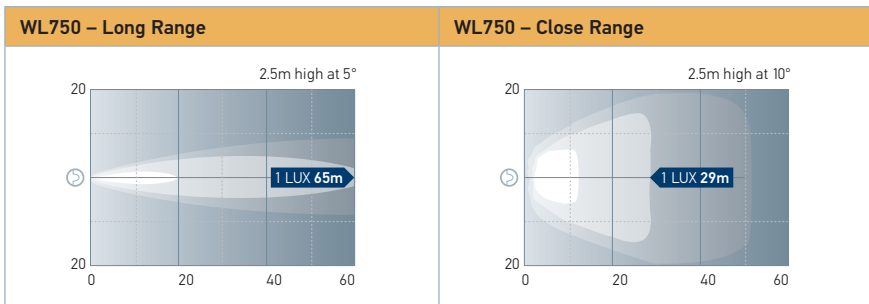
WORK LAMPS



All dimensions in mm.

Part Numbers	LONG RANGE	CLOSE RANGE	
	98095023	98095003	■ WHITE
	98095033	98095014	■ WARM WHITE

Mounting	Upright or Pendant.
Voltage	Multivolt™ (9-33V DC)
Power Consumption	High intensity mode: 12W (1A@12V/0.50A@24V) Low intensity mode: 2W (0.17A@12V/0.08A@24V)
Max. Light Output	750 lumens – White 650 lumens – Warm White
Mounting	Upright or Pendant.
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	2.5 metres
Lens Material	Grilamid®
Housing	Thermally Conductive Plastic
Compliance	



DuraLED® WL750 LED Work Lamps

Featuring an integrated dual intensity circuit, a high level of spike protection and energy efficient Multivolt™ technology, the innovative DuraLED® WL750 will appeal for applications where energy efficiency and reliability is a must. Technologically advanced thermally conductive non-metal housing.



Warm White
98095014
98095033



White
98095023
98095003

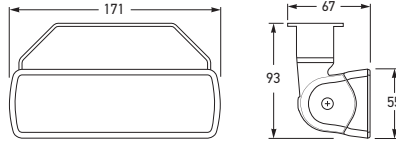


WORK LAMPS

**DuraLED® WL1300 RFCCommSafe™
Work Lamps – 24V DC**

LED Work Lamp featuring 14 high performance LEDs will appeal for applications where energy efficiency and reliability is a must.

Features a tough, chemical-resistant lens made from Grilamid® – a highly impact-resistant, Swiss-made, crystal-clear polyamide with superior tolerance to chemical and long term harsh UV exposure, as well as, technologically advanced thermally conductive non-metal housing.



All dimensions in mm.

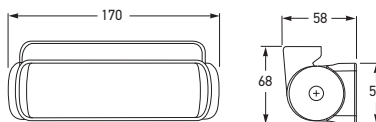


P/N 98074060



Part Numbers	98074025	LONG RANGE
	98074060	CLOSE RANGE
	98074051	FLOOD
Mounting	Stainless-steel bracket for Upright or Pendant mounting.	
Voltage	24V DC	
Power Consumption	14W	
Max. Light Output	900 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2.5 metres	
Lens Material	Grilamid®	
Housing	Thermally Conductive Plastic	
Compliance		

WORK LAMPS



All dimensions in mm.

Part Numbers	98074002	WIDE SPREAD
	98074032	SPREAD
	98074022	NARROW
Mounting	Stainless-steel bracket for Upright or Pendant mounting.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	High power 18W Low power 2W	
Max. Light Output	1300 lumens	
Protection	Reverse polarity protection, surge protection, overheating protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2.5 metres	
Lens Material	Grilamid®	
Housing	Thermally Conductive Plastic	
Compliance		

DuraLED® WL1300 LED Work Lamps – White

These lamps offer a formidable net light output of **1300 lumens**. Designed with 'Fit and Forget' durability in mind, DuraLED® WL1300 features:

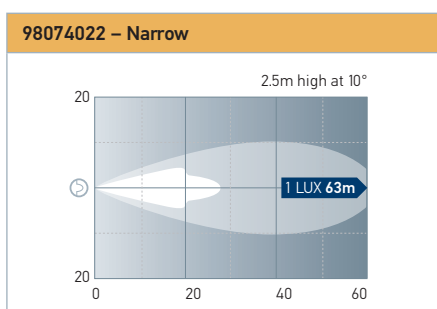
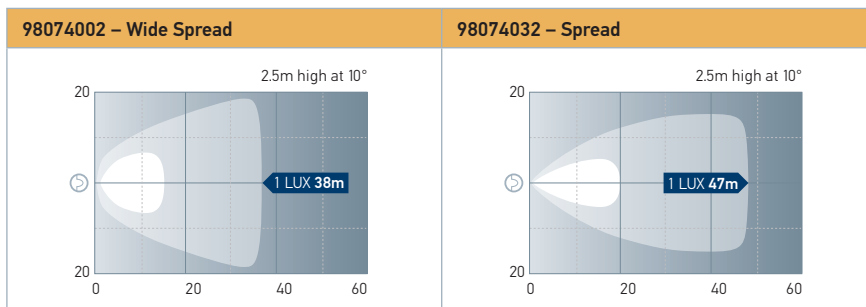
- Integrated dual intensity light output circuit;
- A high level of spike protection;
- High impact-resistant Grilamid® lens – a crystal clear polyamide with superior tolerance to chemical and UV exposure;
- Technologically advanced thermally conductive non-metal housing;
- Low profile stainless steel bracket for adjustable upright or pendant mounting.



P/N 98074002



WORK LAMPS

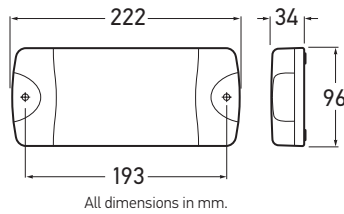


DuraLED® 1000 Spread Beam Work Lamps

The universal, high intensity and extremely energy efficient DuraLED® 1000 Spread Beam Work Lamp is rated at **1000 lumens**.

Magnets simply snap the light to any metallic surface and the lamp can be powered from cigarette lighter or DIN plug.

The lens is manufactured from ultra durable Grilamid® nylon, a revolutionary high performance clear polyamide for extreme impact, UV, chemical and stress resistance.



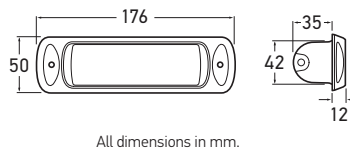
Part Number	HM1550CIG	SPREAD BEAM
Mounting	Universal mounting via neodymium magnets.	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	< 12W	
Max. Light Output	1000 lumens	
Protection	IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	1 metre extension cable extends to 8 metres.	
Compliance		



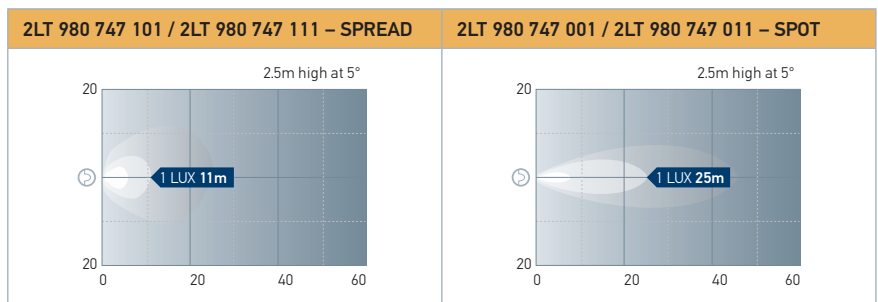
WORK LAMPS

SEAHAWK LED Work Lamps

A new class of ultra efficient, compact and lightweight LED lamps. Rated at **240 lumens**. Suitable for recess mounting only.



Part Numbers	2LT 980 747 101	SPREAD BEAM	■ BLACK
	2LT 980 747 111	SPREAD BEAM	■ WHITE
	2LT 980 747 001	SPOT BEAM	■ BLACK
	2LT 980 747 011	SPOT BEAM	■ WHITE
Mounting	Recess mounting.		
Voltage	Multivolt™ (9-33V DC)		
Power Consumption	< 3W		
Max. Light Output	240 lumens		
Protection	IP 6K7 (Protection against dust and temporary water immersion)		
Cable Length	2.5 metres		
Lens Material	Grilamid®		
Housing	Plastic		
Compliance			



HELLA LED WORK LAMPS

REAL PERFORMANCE
FOR REAL WORKING PEOPLE

Worklamps using LEDs are completely maintenance-free. The latest generation achieve light outputs similar to xenon worklamps. The colour temperature of 6,000K is very similar to daylight. People working in such lighting conditions stay alert for longer.

Advantages of LED's

- High light output
- Low power consumption
- Maintenance-free
- Extremely long service life
- Multi-voltage capable
- 100% waterproof and dust proof
- High vibration resistance
- Low temperature at the lens



P/N 1567LED
Module 70 LED Gen IV Work Lamp



P/N 1564LED
Module 90 LED Work Lamp



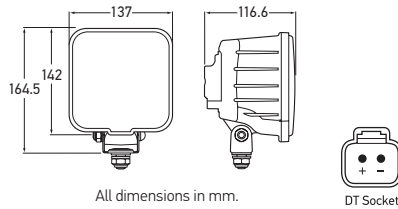
P/N 1563LED
Module 90 LED Work Lamp

Technology with Vision



**WL200 Series
Halogen FF Work Lamps**

WL200 Halogen is a low cost, compact and highly versatile heavy duty work light for use on mining machinery; suitable for 24V and 12V electrical systems. The Work Lamp features a robust nylon housing with a strong glass lens with Free-Form (FF) reflector, and built in DT plug.

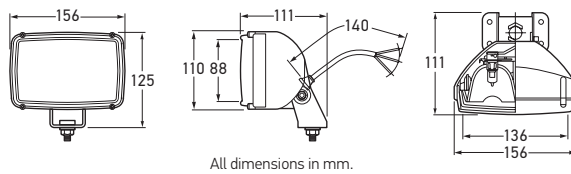


Part Numbers	HM1528WB-12	CLOSE RANGE
	HM1528WB-24	CLOSE RANGE
Mounting	Galvanised Pedestal Bracket for Upright, Side or Pendant mounting on horizontal or vertical surfaces.	
Voltage	12V or 24V (globe included)	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255LL) 24V H3 (YC2470)	
Protection	Fully sealed against dust and moisture to IP6K5K. Shock resistant to 50G.	
Spare Parts	YC2470 Globe – H3 24V YC1255LL Globe – H3 12V	
Not suitable for 100W globes.		

WORK LAMPS

**Halogen FF Twin Beam
Work Lamps – White, 12V**

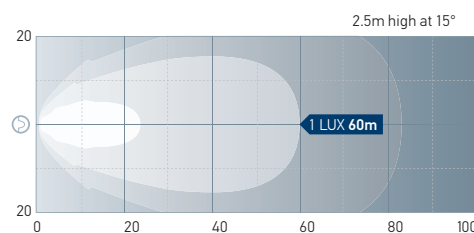
Free-Form (FF) reflector for concentrated, close-range illumination.



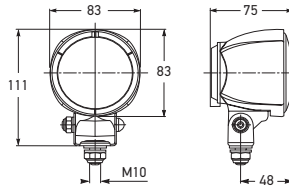
Part Number	2830	CLOSE RANGE
Mounting	Single bolt with tilt adjustment for Upright or Pendant mounting. Stainless-steel bracket and screws included.	
Voltage	12V (Globes included)	
Power Consumption	12V – 2 x 55W 24V – 2 x 70W	
Globe to suit	2 x 12V H3 (YC1255) 2 x 24V H3 (YC2470)	
Protection	Sealed against dust and moisture to IP54.	
Spare Part	9.1531.01 Insert	
Accessories	8160 Clear Protective Cover ① 9.1533.08 Pedestal Mounting Bracket ②	
Not suitable for 100W globes.		



2830 – Halogen FF Twin Beam



WORK LAMPS

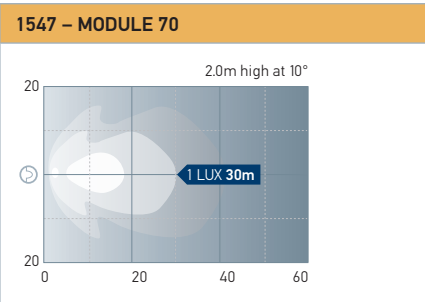


All dimensions in mm.

MODULE 70 SERIES
Close Range

Compact Halogen Work Lamp with a Free-Form (FF) brilliant round reflector. The non-patterned lens reduces light scatter and provides close range uniform illumination of the work area. Reflector made from die-cast aluminium. The lamp's ingenious bracket design allows it to be swivelled 360°, as well as the normal lateral adjustment.

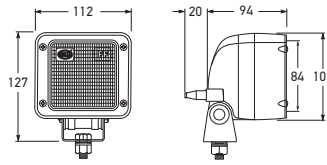
Part Numbers	1547	UPRIGHT MOUNT
	1547P	PENDANT MOUNT
Mounting	P/Ns 1547 suitable for upright mounting with M10 fixing screw. P/Ns 1547P suitable for pendant mounting.	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) (Globe to be ordered separately) 24V H3 (YC2470) (Globe to be ordered separately)	
Protection	IP 5K9K (Protection against dust and high-pressure/steam jet cleaning)	
Accessories	HM70PR Pipe Mount Tube Attachment (rotating) ① HM70PI Pipe Mount Tube Attachment ② 9.HM70BR Module 70 Stainless-steel Bracket	
Not suitable for 100W globes.		



WORK LAMPS

Ultra Beam Series – Close Range

Halogen Work Lamp with Free-Form (FF) reflector for uniform close or long range illumination. Made of die-cast aluminium. Glass lens bonded with reflector to be dust and moisture-proof. Shock-proof plastic housing. External AMP wiring connection.



All dimensions in mm.



P/N 1533



P/N 1533LR

Part Numbers	1533	CLOSE RANGE
	1533LR	LONG RANGE
Mounting	Upright, side or pendant mounting through swivelling the lamp unit 90°. U-shape four-point fixing bracket with M10 screw for mounting on horizontal and vertical surfaces.	
Power Consumption	12V H3 YC1255 (Globe ordered separately) 24V H3 YC2470 (Globe ordered separately)	
Globe to suit	12V H3 YC1255 (Globe ordered separately) 24V H3 YC2470 (Globe ordered separately)	
Protection	IP 6K4K (Protection against dust and water splash) IP X9K (Protection against high-pressure jets)	
Spare Part	1533: 9.1533.01 1533LR: 9.1533.03	Insert Insert
Accessories	HM8158 HM8158AMBER 9.6008.05 9.6008.06 9.1533.08	Clear Protective Cover 1 Amber Clear Protective Cover 2 Rubber Boot for AMP Connection 3 Wiring Loom for AMP Connection – 2 metres 4 Pedestal Mounting Bracket 5

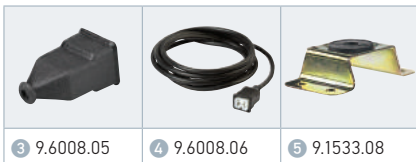
Not suitable for 100W globes.

WORK LAMPS



1 HM8158

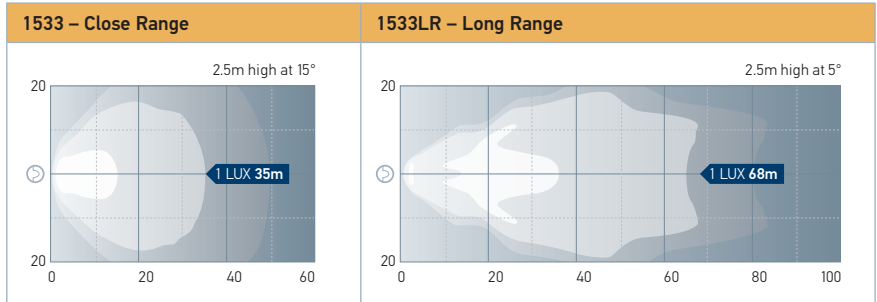
2 HM8158AMBER



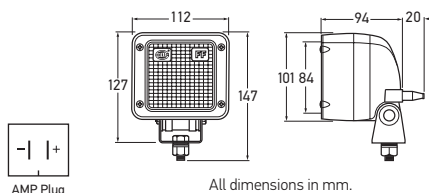
3 9.6008.05

4 9.6008.06

5 9.1533.08



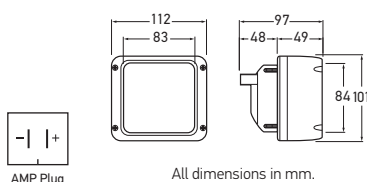
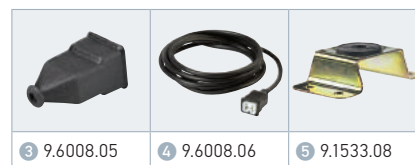
WORK LAMPS



Part Number	2833	CLOSE RANGE
Mounting	Single bolt with tilt adjustment for upright, side or pendant mounting on horizontal or vertical surfaces. Stainless steel bracket and screws included.	
Voltage	12V (globe included)	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Protection	IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Spare Part	9.1533.01	Insert
Accessories	HM8158 HM8158AMBER 9.6008.05 9.6008.06 9.1533.08	Clear Protective Cover ① Amber Clear Protective Cover ② Rubber Boot for AMP Connection ③ Wiring Loom for AMP Connection – 2 metres ④ Pedestal Mounting Bracket ⑤
Not suitable for 100W globes.		

FF Single Beam – Close Range, White

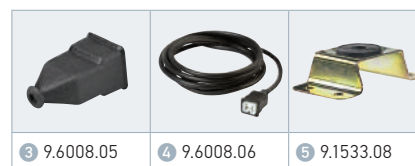
Free-Form (FF) reflector for uniform close-range illumination. AMP wiring connection.



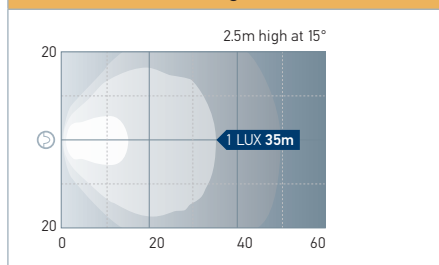
Part Number	2834	CLOSE RANGE
Mounting	Recess Mount	
Voltage	12V (globe included)	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Protection	IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Spare Part	9.1533.01	Insert
Accessories	HM8158 HM8158AMBER 9.6008.05 9.6008.06 9.1533.08	Clear Protective Cover ① Amber Clear Protective Cover ② Rubber Boot for AMP Connection ③ Wiring Loom for AMP Connection – 2 metres ④ Pedestal Mounting Bracket ⑤
Not suitable for 100W globes.		

FF Single Beam – Close Range, Flush Mount, White

Free-Form (FF) reflector for uniform close-range illumination. AMP wiring connection.



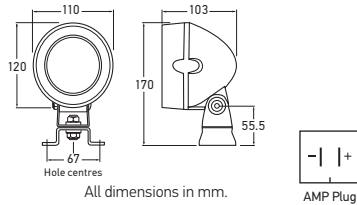
2833 / 2834 – Close Range



WORK LAMPS

**FF Single Beam
– Close Range, Black**

Compact, oval lens and Free-Form (FF) reflector for uniform close-range illumination. AMP wiring connection.



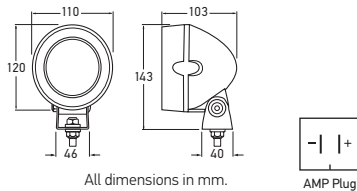
Part Number	1539	CLOSE RANGE
Mounting	Steel Pedestal bracket for Upright or Pendant mounting.	
Voltage	Globe to be ordered separately	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Protection	Sealed against dust and moisture to IP5K4K and IPX9K.	
Spare Part	9.1539.01	Insert
Accessories	9.6008.05 9.6008.06	Rubber Boot for AMP Connection ① Wiring Loom for AMP Connection – 2 metres ②
Not suitable for 100W globes.		



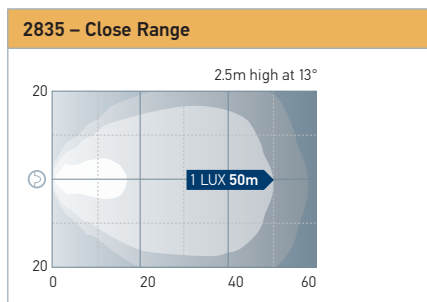
WORK LAMPS

**Halogen FF Single Beam Work Lamp
– Close Range, White**

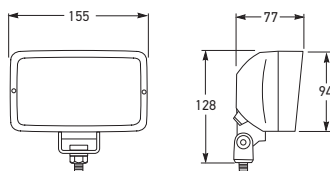
Compact, oval lens and Free-Form (FF) reflector for uniform close-range illumination. AMP wiring connection.



Part Numbers	2835	CLOSE RANGE
	2835-24V	CLOSE RANGE
Mounting	Single bolt with tilt adjustment for upright or pendant mounting. Stainless-steel bracket and screws included.	
Voltage	2835: 12V (globe included) 2835-24V: 24V (globe included)	
Power Consumption	2835: 12V – 55W 2835-24V: 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Protection	Sealed against dust and moisture to IP5K4K and IPX9K.	
Spare Part	9.1539.01	Insert
Accessories	9.6008.05 9.6008.06 9.1517.08	Rubber Boot for AMP Connection ① Wiring Loom for AMP Connection – 2 metres ② Universal Pedestal Mounting Bracket ③
Not suitable for 100W globes.		



WORK LAMPS



All dimensions in mm.

Part Numbers	1519		BLACK HOUSING
	2859		WHITE HOUSING
Mounting	Upright or Pendant.		
Power Consumption	12V – 55W		
Globe to suit	12V H3 (YC1255) (Globe included)		
Protection	Sealed against dust and moisture to IPX4K.		
Spare Part	9.2859.02	FF insert ¹	
Accessories	9.1517.08	Universal Pedestal Mounting Bracket ²	

Not suitable for 100W globes.

FF Single Beam – Close Range
Black or White

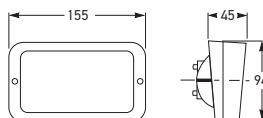
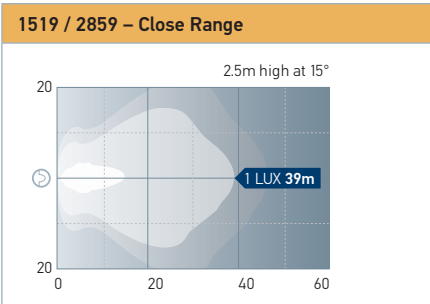
Halogen Work Lamp with black fibre reinforced ABS housing, stainless steel bracket, bolts and lens screws. Free-Form (FF) reflector for close range, uniform illumination.



P/N 1519



P/N 2859



All dimensions in mm.

Part Numbers	2860-BLACK		BLACK HOUSING
	2860		WHITE HOUSING
Mounting	Recess Mount		
Power Consumption	12V – 55W 24V – 70W		
Globe to suit	12V H3 (YC1255) (Globe included) 24V H3 (YC2470) (Globe to be ordered separately)		
Protection	Sealed against dust and moisture to IPX4K.		
Spare Part	9.2859.02	FF insert ¹	

Not suitable for 100W globes.

FF Single Beam – Close Range
Flush Mount, Black or White

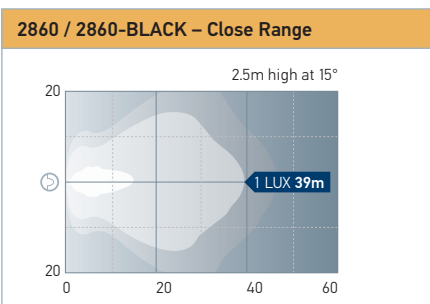
Halogen Work Lamp with flush mount black fibre reinforced ABS housing and Free-Form (FF) reflector for close range, uniform illumination.



P/N 2860-BLACK



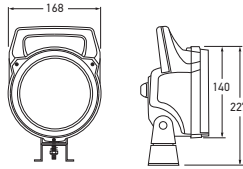
P/N 2860



WORK LAMPS

Matador Series

Work Lamp with handle and switch. Black fibre-glass reinforced plastic housing with extended edge to protect lens.



All dimensions in mm.



P/N 1511



P/N 1512



P/N 1513

Part Numbers	1511		WIDE SPREAD
	1512		LONG RANGE
	1513		COMBINATION RANGE - WIDE / LONG

Mounting Full swivel four-point fixing bracket for mounting on flat or slightly curved surfaces.

Power Consumption	12V – 55W 24V – 70W
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Globe to suit	12V H3 (YC1255) (Globe to be ordered separately) 24V H3 (YC2470) (Globe to be ordered separately)
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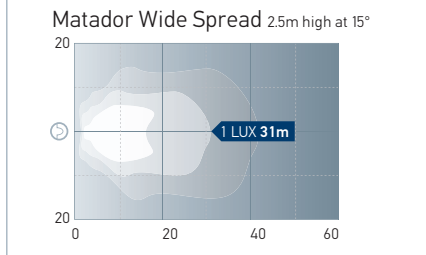
Protection	IP 5K4K (Protection against dust and water splash)
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Spare Parts	9.1511.01	Close range insert
	9.1511.06	On-off rotary switch
	9.1512.01	Long range insert
	9.1513.01	Combination range insert

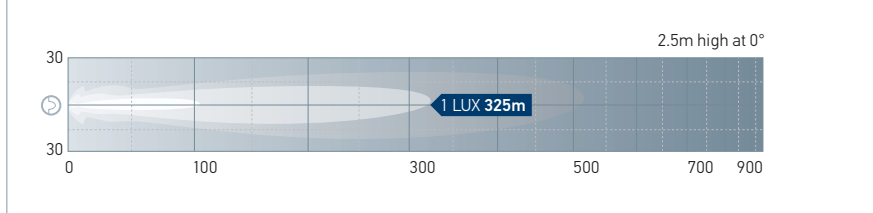
Accessory	9.1511.07	Protective Grille
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Not suitable for 100W globes.

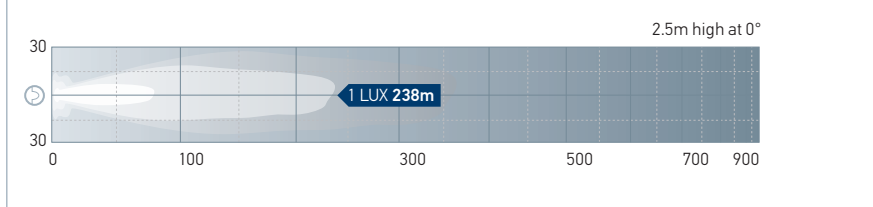
1511 – Wide Spread



1512 – Long Range

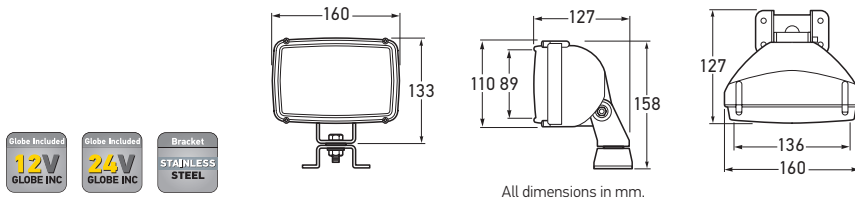


1513 – Combination Range – Wide / Long



9.1511.07

WORK LAMPS

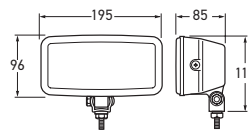
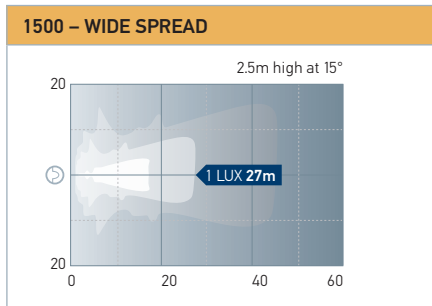


Flood Lamp – PC Lens Halogen – Wide Spread

Polycarbonate lens for use in agricultural or food processing industries.



Part Number	1500	WIDE SPREAD
Mounting	Steel pedestal bracket for Upright mounting on flat surfaces.	
Voltage	Globe to be ordered separately.	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Note	While the reflector/lens (insert) assembly is marked Max. 55W, there have been no heat related issues encountered with use of 24V – 70W globes.	
Spare Part	9.1500.01 Polycarbonate Insert	
Accessory	9.1517.08 Universal Pedestal Mounting Bracket	

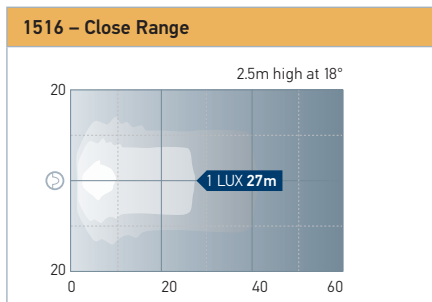


Flood Lamp – Close Range, 12V

Close range illumination.

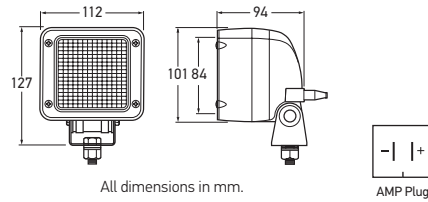


Part Number	1516	CLOSE RANGE
Mounting	Single bolt with tilt adjustment for upright mounting.	
Voltage	12V (globe included)	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Spare Parts	9.1307.09 Body Assembly 9.1308.08 Mounting Bracket Assembly 9.1516.01 Insert	
Accessory	9.1517.08 Universal Pedestal Mounting Bracket	



**Ultra Beam Series
Reversing Spot Lamp**

Reversing Spot Lamp providing maximum visibility of the rear and/or sides during reversing manoeuvres. Equipped with die-cast aluminium Free-Form (FF) reflector and patterned glass lens for broad and uniform illumination. Sturdy design and shock-proof plastic housing for use under heavy duty conditions. Fully sealed to withstand high-pressure washing. AMP wiring connection.



Part Number	1408
Mounting	Bracket and single bolt with tilt adjustment for upright mounting. Detailed mounting instructions included.
Voltage	24 V Globe included.
Power Consumption	12V – 55W 24V – 70W
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)
Protection	Fully sealed against dust and moisture to IP6K4K and IPX9K.
Spart Part	9.1408.01 FF Insert
Accessories	9.6008.05 Rubber Boot for AMP Connection ① 9.6008.06 Wiring Loom for AMP Connection – 2m ② 9.1533.08 Pedestal Mounting Bracket ③
Compliance	ADR 1/100

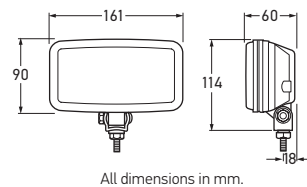
Note: Subject to special mounting and wiring specifications. Not suitable for 100W globes.

WORK LAMPS



**Comet 450 Series
Reversing Spot Lamp**

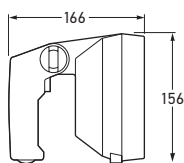
Reversing Spot Lamp providing maximum visibility of the rear and/or sides during reversing manoeuvres. Shock-proof housing for use under heavy duty conditions.



Part Number	1410
Mounting	Bracket and single bolt with tilt adjustment for upright mounting. Detailed mounting instructions included.
Voltage	Globe to be ordered separately.
Power Consumption	12V – 55W 24V – 70W
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)
Protection	Fully sealed against dust and moisture to IP6K4K and IPX9K.
Compliance	ADR 1/100

Note: Subject to special mounting and wiring specifications. Not suitable for 100W globes.

WORK LAMPS



All dimensions in mm.

Halogen FF Twin Beam Hand-Held Search Lamp – 12V

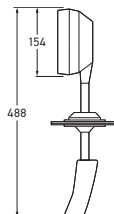
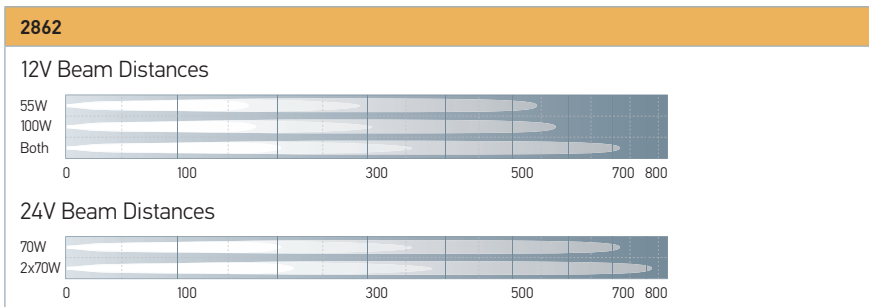
Compact, heavy duty Twin Beam Hand-Held Search Lamp with twin Free-Form (FF) reflector for close-range and powerful 100W long range beam. Handgrip with two independent on/off switches. Spiral cable (extendable to 3.5m) with plug for cigarette lighter and DIN/ISO sockets.



Part Number	2862
Mounting	Suitable for mounting on flat surfaces in conjunction with mounting base Part No. 9.2862.08
Voltage	12V (globes included)
Power Consumption	1 x 55W 1 x 100W
Globe to suit	2 x 12V H3 (1 x YC1255, 1 x YC12100) 2 x 24V H3 (1 x YC2470, 1 x YC24100)
Protection	Sealed against dust and moisture to IPX6K.
Spare Parts	9.2862.01 Insert 9.2862.03 Plug Assembly
Accessory	9.2862.08 Mounting Base (optional)



9.2862.08



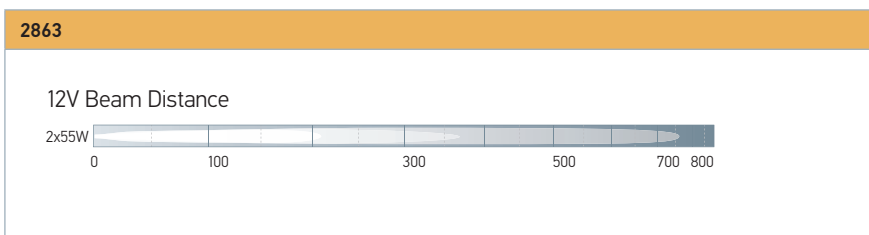
All dimensions in mm.

Halogen FF Twin Beam Search Lamp – Manual Control. 12V

Compact Search Lamp for installation into vehicle roof. Twin Free-Form (FF) reflector system and handgrip with integrated on/off switch. 360° horizontal rotation and 30° vertical tilt.



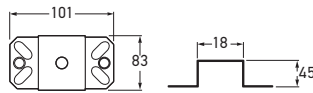
Part Number	2863
Voltage	12V (globes included)
Power Consumption	2 x 55W
Globe to suit	2 x 12V H3 (YC1255) 2 x 24V H3 (YC2470)
Protection	Sealed against dust and moisture to IPX6K.
Spare Parts	9.2862.01 Insert 9.2863.06 On/off Switch



WORK LAMPS

**Pedestal Mounting Bracket
– Universal**

Universal stainless-steel Pedestal Bracket for four-point mounting. Suitable for use with all of HELLA Work Lamps.



All dimensions in mm.



Part Number	9.1517.08
Mounting	10mm dia. mounting hole

Pedestal Mounting Bracket

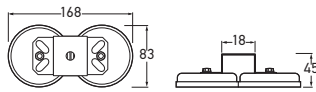
Steel Pedestal Swivel Bracket to suit most HELLA Work Lamps.



Part Number	9.1533.08
To Suit	Part No. 1530, 1531, 2830, 1532, 1533, 1533LR, 2833, 1534 and 1535.

**Magnetic Mounting Bracket
– Universal**

Universal Magnetic Mounting Bracket suitable for use with all HELLA Work Lamps. Consists of 2 magnets and fittings.



All dimensions in mm.



Part Number	9.1537.08
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of lamps with a magnetic base cannot be recommended for use on moving vehicles.

HELLA TECH WORLD

FREE Automotive Technical Information Portal









3D Interactive Animations



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Technology with Vision





Emergency Lighting and Signal Warning Lamps

A comprehensive range of products that meet the requirements of a modern Emergency Response Fleet.



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HELLA EMERGENCY AND SIGNAL WARNING LIGHTING

HELLA's range of Emergency Lighting and Signal Warning Lamps provide high levels of performance and reliability for situations where a powerful warning light is required to attract attention.



HELLA's revolving and warning lamps, either in LED, bulb or strobe technology, offer choices of signal colour, luminous intensities, flash patterns and supply voltages, providing a complete range to suit most applications and performance requirements.

Light Technology

HELLA rotating beacons offer robust design and superior light performance. The high gloss, vapour-coated parabolic reflector and halogen bulb form an efficient optical system, maximising the light performance. The rotating light pattern is well recognised as a highly effective warning signal in all conditions, even in bright sunlight.

The design of the internal airflow prevents the light dome and reflector from accumulating condensation providing full functional safety at all times, while maintenance-free bearings and drive belt technology ensures smooth operation. Instant activation is ensured from ambient temperatures ranging from -40°C to $+60^{\circ}\text{C}$.

LED High Intensity Emergency Lighting

High intensity LED signal warning lamps are specially designed for emergency services and specialist applications. Features include ultra long service life, reduced maintenance requirements, reliability and outstanding light performance.

The HELLA Multi-flash range of warning lamps have 10 programmable flash modes and can be synchronised to flash alternatively, as a sequenced running pattern or in unison.





Electromagnetic Compatibility (EMC)

Electromagnetic compatibility (EMC) is an increasingly relevant feature for Emergency and Signal Warning lighting.

As electronic devices become more common, so does the risk of unintended interference that can have adverse effects on other sensitive devices such as radios or communication equipment.

HELLA lighting products are designed and tested to reduce the possible risk of electromagnetic interference, both emissions as well as susceptibility, to limits defined in international standards.

As prescribed by New Zealand legislation, under circumstances, electronic products sold in New Zealand must be labelled with the C-tick  or RCM  marks. HELLA products are designed, tested and labelled to meet the requirements of this legislation



A cut away image showing the construction of the beacon and reflector.

Revolving Beacons

HELLA's revolving beacons are specified with a robust plastic housing. This material is lightweight and insulated.

Noise is effectively minimised in some lamps by utilising silver contacts and a drive belt system. Dual drive belts ensure the lamp remains fully operational even if one of the belts should fail.

HELLA revolving beacons feature corrosion resistant bulb holders. On some models bulbs can be replaced from the rear of the reflector, preventing damage to the highly polished and coated reflector.

HELLA's revolving lamps incorporate radio frequency (RF) suppression which reduces the potential for interference with on-board communication equipment.

Beacons and Optical Warning System Advantages:

- Intense light output - maximising warning light visibility and effectiveness.
- Independent bulb socket system - allows for simple, fast light source replacement without misalignment of the reflector.
- Economic product solution – low maintenance costs, minimal replacements required.

ELIVER THE ONLINE COMPARISON TOOL



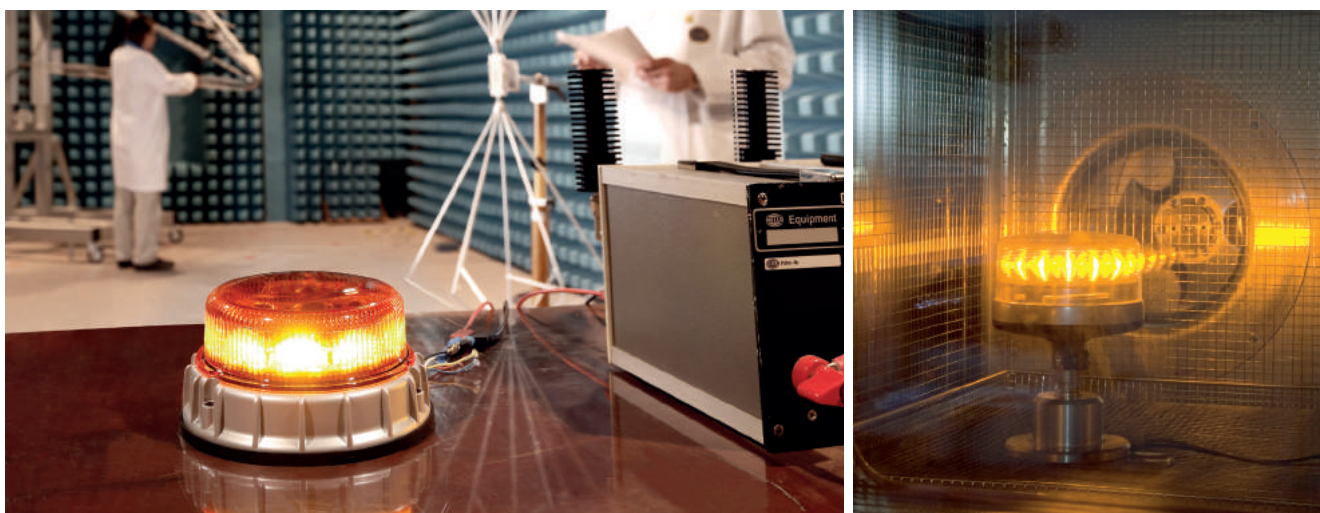
CAUTION: MOUNTING OF MAGNETIC BASE REVOLVING LAMPS

Due to environmental variances involved with vehicle acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles



PERFORMANCE AND RELIABILITY ARE GUARANTEED

HELLA Emergency Lamps are tested to International Standards.



Vibration Test

This test simulates the behaviour of the products in harsh off-road conditions and verifies resistance to potholes, washboard road patterns and gravel roads.

The wide band random vibration test is used to test the mechanical endurance strength of the test specimen. The vibration frequency range extends from 10 to 1000 Hertz. In addition to vibration testing, products are subjected to a temperature overload of -40°C to $+80^{\circ}\text{C}$.

Ingress Protection (IP ratings)

HELLA Emergency and Signal Warning Lighting contain precision electronic and mechanical components in order to achieve outstanding product performance. In order to protect these components and assure long term reliability HELLA products are designed and tested to meet international standards on ingress protection as per IEC 60529, DIN 40050-9 or ISO 20653.

Dust Test

Entry of dust can affect the optical and mechanical operation of a lamp, potentially compromising its performance and reliability. Accordingly HELLA products are designed and tested to ensure the risk of dust ingress is minimised or eliminated. Dust-resistant products are rated at IP 5(K) X, while dust-proof products are rated at IP 6(K) X.

Water Splash Test

HELLA products that fulfil the water splash test requirement have been subjected to environmental testing designed to simulate operating conditions representing normal weather conditions. When correctly installed heavy rain, direct splashes and water sprays up to 4 bar will have no adverse effects on the long term reliability and performance of the product. This level of protection is provided on HELLA products rated at IP X4K or above.

Temporary Immersion Test

HELLA products that fulfil the temporary immersion test requirement have been subjected to tests designed to simulate operating conditions that involve brief immersions in water such as off-road driving through a stream. This level of protection is provided on HELLA products rated at IP X7.

High-Pressure Cleaner Test














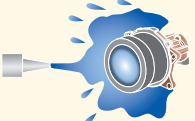

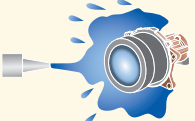
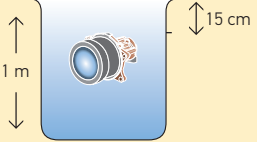


The ultimate in water ingress protection, HELLA products that fulfil the high-pressure cleaner test requirement are able to withstand water and steam jets of up to 80°C and 100 bar that may be encountered during commercial and industrial cleaning processes. This level of protection is provided on HELLA products rated at IP X9K.



Designed, tested and protected for guaranteed performance and reliability.

IP Ratings

How well protected is a product against environmental influences?
 The IP protection class states how resistant the product is.
 The classes are defined in DIN 40050-9. HELLA products
 are designed for different degrees of protection:

First Digit	PROTECTION AGAINST SOLID FOREIGN OBJECTS AND ACCESS TO HAZARDOUS PARTS		Second Digit	PROTECTION AGAINST LIQUIDS	
0	—————	Non-protected	0	—————	Non-protected
1	 50mm ↓ ● ↑	Protected against solid foreign objects of 50mm diameter and greater.	1		Protected against drops of water falling vertically.
2	 12.5mm ↓ ● ↑ 2.5mm	Protected against solid foreign objects of 12.5mm diameter and greater.	2		Protected against drops of water falling vertically at up to 15° from the vertical.
3	 ● ↓ ↑	Protected against solid foreign objects of 2.5mm diameter and greater.	3		Protected against spraying water falling vertically at up to 60° from the vertical.
4	 1.0mm ↓ ● ↑	Protected against solid foreign objects of 1.0mm diameter and greater.	4		Protected against splashing water from all directions.
5		Dust-protected.	4K		With higher pressure.
5K		Dust-protected.	5		Protected against jet of water from all directions.
6		Dust-sealed.	6		Protected against powerful water jets.
6K		Dust-sealed.	6K		With higher pressure, specific for road vehicles.
			7		Protected against the effects of immersion. Protected against high-pressure cleaner, specific for road vehicles.
			8		Protected against prolonged effects of immersion under pressure to specified depth.
			9K		Protected against high-pressure cleaner, specific for road vehicles.

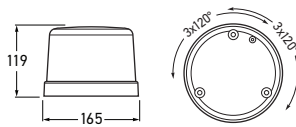


EMERGENCY LIGHTING FOR ALL SITUATIONS

KL7000LED Series

KL7000LED Beacon, has the latest LED technology provides an optimum signal image with low power consumption. Existing halogen versions can be upgraded to LED.

The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant PMMA lens.



Part Number	1608 - Fixed Mount, Multivolt™	■ AMBER
Mounting	Upright, fixed mounting on horizontal surfaces.	
Voltage	Multivolt™ 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
RF Suppression	CISPR25 Power Controlled Class 5.	
Protection	IP5KX, IPX4K and IPX9K	
Accessory	HMWGA160 GuardRay® Protective Cage ①	
Compliance	R65 TA1 (E1) 00 3397 [e1] 03 6194	

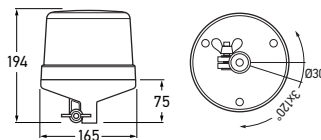


EMERGENCY & SIGNAL

KL7000LED Series

KL7000LED Beacon, with the latest LED technology provides an optimum signal image with low power consumption. Existing halogen versions can be upgraded to LED.

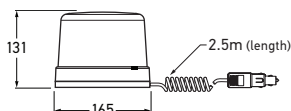
The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant PMMA lens.



Part Number	1609 - Pipe Mount, Multivolt™	■ AMBER
Mounting	Pipe Mounting. Tubular base incorporates connection plug. Must be used in conjunction with connecting piece Part No. 8007, or other HELLA 2-pole beacon mounts.	
Voltage	Multivolt™ 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
RF Suppression	CISPR25 Power Controlled Class 5.	
Protection	IP5KX, IPX4K and IPX9K	
Accessory	HMWGA160 GuardRay® Protective Cage ①	
Compliance	R65 TA1 (E1) 00 3397 [e1] 03 6194	



EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS

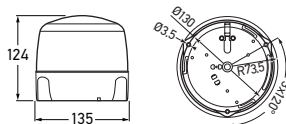


Part Number	1610 - Magnetic Mount, Multivolt™	■ AMBER
Mounting	Magnetic Mounting on horizontal surfaces. Supplied with spiral cable (extends up to 2.5m) and 2-pole plug for cigarette lighter or standard DIN ISO sockets.	
Voltage	Multivolt™ 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
RF Suppression	CISPR25 Power Controlled Class 5.	
Protection	IP5KX, IPX4K and IPX9K	
Compliance	R65 TA1 (E1) 00 3397 [e1] 03 6194	

KL7000LED Series

KL7000LED Beacon, with the latest LED technology provides an optimum signal image with low power consumption. Existing halogen versions can be upgraded to LED.

The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant PMMA lens.



Part Number	1611 - Fixed Mount, Multivolt™	■ AMBER
Mounting	Upright, fixed mounting on horizontal surfaces.	
Voltage	Multivolt™ 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
RF Suppression	CISPR25 Power Controlled Class 5.	
Protection	IP5KX, IPX4K and IPX9K	
Compliance	R65 TA1 (E1) 00 3109 [e1] 03 5517	

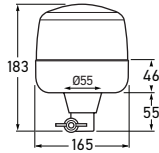
RotaLED Series

RotaLED Beacon, with the latest LED technology provides an optimum signal image with low power consumption. The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant Polycarbonate lens.



RotaLED Series

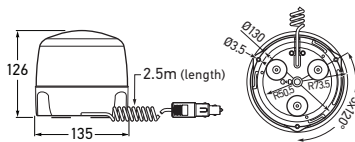
RotaLED Beacon, with the latest LED technology provides an optimum signal image with low power consumption. The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant Polycarbonate lens.



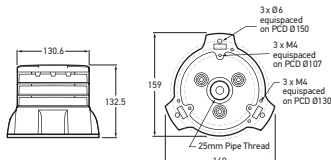
Part Number	1612 - Pipe Mount, Multivolt™	■ AMBER
Mounting	Pipe Mounting. Tubular base incorporates connection plug. Must be used in conjunction with connecting piece Part No. 8007, or other HELLA 2-pole beacon mounts. (see page 259)	
Voltage	Multivolt™ 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
RF Suppression	CISPR25 Power Controlled Class 5.	
Protection	IP5KX, IPX4K and IPX9K	
Compliance	R65 TA1 (E) 00 3109	e1 03 5517

RotaLED Series

RotaLED Beacon, with the latest LED technology provides an optimum signal image with low power consumption. The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant Polycarbonate lens.



Part Number	1613 - Magnetic Mount, Multivolt™	■ AMBER
Mounting	Magnetic Mounting on horizontal surfaces. Supplied with spiral cable (extends up to 2.5m) and 2-pole plug for cigarette lighter or standard DIN ISO sockets.	
Voltage	Multivolt™ 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
RF Suppression	CISPR25 Power Controlled Class 5.	
Protection	IP5KX, IPX4K and IPX9K	
Compliance	R65 TA1 (E) 00 3109	e1 03 5517



Part Numbers	HM9500ADIR - Fixed Mount, Multivolt™	■ AMBER
	HM9500RDIR - Fixed Mount, Multivolt™	■ RED
Mounting	Upright, fixed mounting on horizontal surfaces.	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	33W Max	
Flash Rate	2.22Hz - 133 RPM (simulated)	
Temperature Range	-20° to +50°C	
RF Suppression	CISPR25 Power Controlled Class 5.	
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K9K. Shock resistant to 200G. Flame retardant to UL94HB	
Accessory	HM360PIPE	Pipe Mount Kit ①
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	

DuraRAY 3 Series

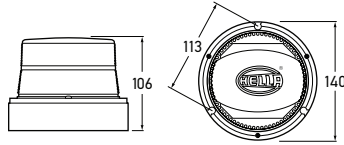
DuraRAY3® Ultra Durable LED Warning Beacons usher in a new era of innovation, building on the award winning design of their predecessors. DuraRAY3® beacons are designed for mining and construction applications where the cost of equipment downtime is large and safety is paramount.



① P/N HM360PIPE

OptiRAY®-E Series

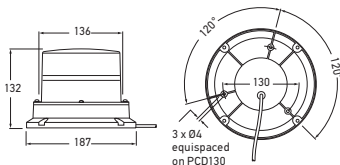
Compact and extremely robust LED Warning Beacon for heavy-duty applications. Equipped with high impact-resistant, clear polycarbonate lens and UV-resistant fibreglass nylon composite base for increased mechanical strength. Tolerant to severe vibration levels and suitable for corrosive environments where metal products should not be used. O-ring sealed against dust and water ingress.



Part Numbers	Mounting Type	Color
HM300ADIR	Direct Mount, Multivolt™	AMBER
HM300AMAG	Magnetic Mount, Multivolt™	AMBER
HM300RDIR	Direct Mount, Multivolt™	RED
HM300RMAG	Magnetic Mount, Multivolt™	RED
HM300BDIR	Direct Mount, Multivolt™	BLUE
HM300BMAG	Magnetic Mount, Multivolt™	BLUE
HM300GDIR	Direct Mount, Multivolt™	GREEN
HM300GMAG	Magnetic Mount, Multivolt™	GREEN
HM300WDIR	Direct Mount, Multivolt™	WHITE
HM300WMAG	Magnetic Mount, Multivolt™	WHITE

Mounting	Fixed or Magnetic mounting on horizontal surfaces. Optional pipe mount kit available.	
Voltage	Multivolt™ 12-30V DC	
Power Consumption	12W Max	
Flash Rate	80 per minute (double)	
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable).	
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G.	
Accessory	HM360PIPE	Pipe Mount Kit ①
Spare Part	9.HM360LENS	Clear PC Lens
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	





UltraRAY® Series

Extremely robust LED Warning Beacon for heavy-duty applications, featuring four user-selectable flash patterns and automatic daylight detection to suit a large variety of applications. Equipped with high impact-resistant, clear polycarbonate lens bolted to a heavy-duty, corrosion-resistant cast-alloy base. O-ring sealed against dust and water ingress.



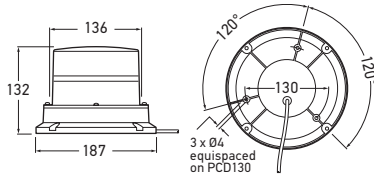
Part Numbers	HM400ADIR - Direct Mount, Multivolt™	AMBER
	HM400AMAG - Magnetic Mount, Multivolt™	AMBER
	HM400RDIR - Direct Mount, Multivolt™	RED
	HM400RMAG - Magnetic Mount, Multivolt™	RED
	HM400BDIR - Direct Mount, Multivolt™	BLUE
	HM400BMAG - Magnetic Mount, Multivolt™	BLUE
	HM400GDIR - Direct Mount, Multivolt™	GREEN
	HM400GMAG - Magnetic Mount, Multivolt™	GREEN
	HM400WDIR - Direct Mount, Multivolt™	WHITE
	HM400WMAG - Magnetic Mount, Multivolt™	WHITE
Mounting	Fixed or magnetic mounting on horizontal surfaces. Optional pipe mount kit available.	
Voltage	Multivolt™ 12-30V DC	
Power Consumption	20W Max	
Flash Rate	80 per minute (double). 4 user-selectable flash patterns (double, quad and 2 random patterns).	
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable).	
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G.	
Accessory	HM400PIPE	Pipe Mount Kit ①
Spare Part	9.HM400LENS	Clear PC Lens
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	



① P/N HM400PIPE

UltraRAY®-R
'Rotating' Series

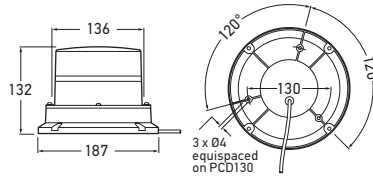
UltraRAY®-R LED Warning Beacons are optimised to deliver high visibility warning signals in the dusty conditions of surface mining operations – day and night. UltraRAY®-R Beacons feature user-selectable 'rotating' or quad flash patterns.



Part Numbers	Mounting	Color
HM450ADIR - 'Rotating' Direct Mount, Multivolt™	Fixed or magnetic mounting on horizontal surfaces. Optional pipe mount kit available.	AMBER
HM450AMAG - 'Rotating' Magnetic Mount, Multivolt™		AMBER
HM450RDIR - 'Rotating' Direct Mount, Multivolt™		RED
HM450RMAG - 'Rotating' Magnetic Mount, Multivolt™		RED
HM450BDIR - 'Rotating' Direct Mount, Multivolt™		BLUE
HM450BMAG - 'Rotating' Magnetic Mount, Multivolt™		BLUE
HM450GDIR - 'Rotating' Direct Mount, Multivolt™		GREEN
HM450GMAG - 'Rotating' Magnetic Mount, Multivolt™		GREEN
HM450WDIR - 'Rotating' Direct Mount, Multivolt™		WHITE
HM450WMAG - 'Rotating' Magnetic Mount, Multivolt™		WHITE

Mounting	Fixed or magnetic mounting on horizontal surfaces. Optional pipe mount kit available.	
Voltage	Multivolt™ 12-30V DC	
Power Consumption	20W Max	
Flash Rate	Rotating	80 cycles/min
	Flash	72fpm (quad)
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable).	
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G.	
Accessory	HM400PIPE	Pipe Mount Kit ①
Spare Parts	9.HM450ALENS	Amber PC Lens
	9.HM450RENS	Red PC Lens
	9.HM450BLENS	Blue PC Lens
	9.HM450GLENS	Green PC Lens
	9.HM450WLENS	Clear PC Lens
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	





Part Numbers	HM500ADIR - 'Rotating' Direct Mount, Multivolt™	AMBER
	HM500AMAG - 'Rotating' Magnetic Mount, Multivolt™	AMBER
	HM500RDIR - 'Rotating' Direct Mount, Multivolt™	RED
	HM500RMAG - 'Rotating' Magnetic Mount, Multivolt™	RED
	HM500BDIR - 'Rotating' Direct Mount, Multivolt™	BLUE
	HM500BMAG - 'Rotating' Magnetic Mount, Multivolt™	BLUE
	HM500GDIR - 'Rotating' Direct Mount, Multivolt™	GREEN
	HM500GMAG - 'Rotating' Magnetic Mount, Multivolt™	GREEN
	HM500WDIR - 'Rotating' Direct Mount, Multivolt™	WHITE
	HM500WMAG - 'Rotating' Magnetic Mount, Multivolt™	WHITE
Mounting	Fixed or magnetic mounting on horizontal surfaces. Optional pipe mount kit available.	
Voltage	Multivolt™ 12-30V DC	
Power Consumption	50W Max	
Flash Rate	Rotating Flash	80 cycles/min 72fpm (quad).
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable).	
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G.	
Accessory	HM400PIPE	Pipe Mount Kit ①
Spare Parts	9.HM450ALENS Amber PC Lens 9.HM450RLENS Red PC Lens 9.HM450BLENS Blue PC Lens 9.HM450GLENS Green PC Lens 9.HM450WLENS White PC Lens	
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	

UltraRAY®-R Twin Series

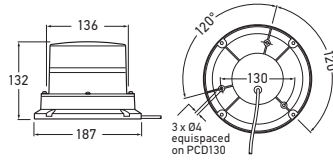
The UltraRAY®-R TWIN LED beacon is designed for increased visibility in bright sunlight with more than double the intensity of the original UltraRAY®. Compact, robust and tolerant to severe vibration, maintenance-free LEDs reduce demand on electrical systems by up to 70%. A highly efficient and effective warning beacon in daylight on surface operations in extreme environmental conditions.



① P/N HM400PIPE

**UltraRAY®-R
Dual Series**

UltraRAY® Dual Warning Beacons eliminate the need for multiple lamps where different colour warnings are required. They output high visibility dual colours and can be used as signal lights to indicate current states of equipment (e.g. amber/red beacon – red: vehicle has stopped, amber: vehicle is in motion).

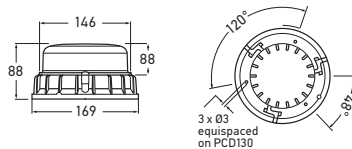


Part Numbers	HM450ARDIR - Direct Mount, Multivolt™	AMBER/RED
	HM450GRDIR - Direct Mount, Multivolt™	GREEN/RED
Mounting	Fixed mounting on horizontal surfaces. Optional pipe mount kit available.	
Voltage	Multivolt™ 12-30V DC	
Power Consumption	20W Max	
Flash Rate	Rotating Flash	80 cycles/min 72fpm (quad)
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable).	
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G.	
Accessory	HM400PIPE	Pipe Mount Kit
Spare Part	9.HM450WLENS Clear PC Lens	
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	

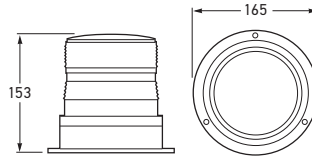
EMERGENCY & SIGNAL

K-LED Mining Series

K-LED Mining low profile Beacons are designed for smaller mobile vehicles. The ideal choice wherever beacons risk interference with radio communications, its 20 high power LEDs provide high light output for best visibility. An automatic day/night sensor adjusts brightness to avoid glare discomfort at night. Suitable for mining and road vehicle applications.



Part Numbers	HM9600ADIR - Fixed Mount, Multivolt™	AMBER
	HM9600AMAG - Magnetic Mount, Multivolt™	AMBER
	HM9600APIP - Pole Mount, Multivolt™	AMBER
	HM9600BDIR - Fixed Mount, Multivolt™	BLUE
	HM9600GDIR - Fixed Mount, Multivolt™	GREEN
	HM9600RDIR - Fixed Mount, Multivolt™	RED
Mounting	Fixed, magnetic or pipe mounting on horizontal surfaces.	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	33W Max	
Flash Rate	2.0Hz - 120 RPM (simulated)	
Temperature Range	-40° to +60°C	
Protection	High EMC resistance: meets CISPR25 class 5. Reverse polarity protection. Fully sealed against dust and moisture to IP6K7. Shock resistant to 200G.	
Compliance	Amber and red ECE and SAE compliant: ECE R65 TA2 (E) 00 3555, ECE R65 TR2, (E) 03 6816 ECE R10: 036816, SAE J 845 Class 1, CISPR 25 Class 5	



Part Numbers	1646 - Fixed Mount, Double Flash	AMBER
	1647 - Fixed Mount, Double Flash	BLUE
	1648 - Fixed Mount, Double Flash	GREEN
Mounting	Fixed Mounting on horizontal surfaces	
Voltage	Multi Volt 12-48V DC	
Current Draw	0.65 - 0.18A	
Power Consumption	13.3W (10 joule rating)	
Flash Rate	70 +/- 2 per minute (double)	
Globe to suit	XN551 Flash Tube (included)	
Protection	IP65	
Accessories	8028	Magnetic Mounting Kit 1 ^① Caution: Mounting restrictions apply. (see page 258) HMWGA160
Compliance	Meets SAE J1318 requirements for Class 3	

Pulsator 551 Series

Heavy-duty Xenon Strobe Lamp fitted with impact-resistant Polycarbonate lens and base. The solid-state circuitry is encapsulated in silicone gel providing maximum protection against vibration, shock, heat and ingress of moisture.

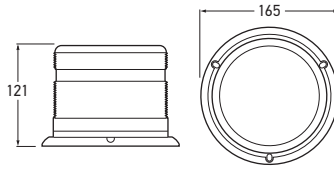


① P/N 8028

② P/N HMWGA160

6750 Series

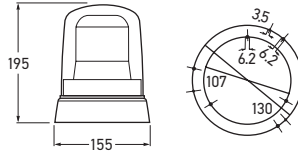
Heavy-Duty Xenon Strobe Lamp fitted with impact-resistant Polycarbonate lens and metal base featuring user-selectable double or quad flash at time of installation. The circuit board is encapsulated in epoxy providing maximum protection against vibration, shock, heat and ingress of moisture. Dual-voltage circuitry enables unit to operate on either 12V or 24V DC input voltage. Electronics with i.beam™ LED status indicator constantly monitor the strobe light operation for reliable self-diagnosis. Reverse polarity, with voltage spike and surge protection.



Part Numbers	1600 - Fixed Mount, Double/Quad Flash	■ BLUE
	1601 - Fixed Mount, Double/Quad Flash	■ RED
	1602 - Fixed Mount, Double/Quad Flash	■ AMBER
	1603 - Fixed Mount, Double/Quad Flash	■ GREEN
	1604 - Fixed Mount, Double/Quad Flash	■ CLEAR
Mounting	Fixed Mounting on horizontal surfaces.	
Voltage	12-24V DC	
Current Draw	4.6-2.1A	
Power Consumption	Double	12V DC - 25W 24V DC - 22W (10 joule rating)
	Quad	12V DC - 30W 24V DC - 27W (15 joule rating)
Flash Rate	80 +/- 5 per minute (double) 65 +/- 5 per minute (quad)	
Globe to Suit	XN6750 Flash Tube (included)	
Protection	IP65	
Accessories	9.1600.06	Clear Lens Dust Cover ¹
	9.1600.07	Branch Guard ²
	HMWGA160	GuardRay Protective Cage ³
Spare Parts	9.1600.01	■ Blue PC Lens
	9.1601.01	■ Red PC Lens
	9.1602.01	■ Amber PC Lens
	9.1603.01	■ Green PC Lens
	9.1604.01	■ Clear PC Lens
Compliance	Meets SAE J1318 requirements for Class 2.	



EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS



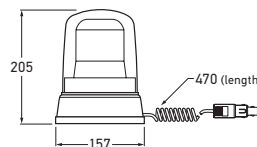
KLX7000 Series

Modular construction featuring sturdy metal housing, impact-resistant Polycarbonate lens and inbuilt EMC shield.



1 P/N HMWGA220

Part Numbers	1605 - Fixed Mount, Double Flash, 12V DC	■ AMBER
	1605-24V - Fixed Mount, Double Flash, 24V DC	■ AMBER
Mounting	Fixed Mounting on horizontal surfaces. DIN B1: PCD 130mm or 107mm.	
Voltage	12V DC 24V DC	
Current Draw	12V DC - 3.3A 24V DC - 1.6A	
Power Consumption	12W	
Flash Rate	123 per minute (double).	
Globe to Suit	XN7000 Flash Tube (included)	
Protection	IP5K4K9K	
Accessory	HMWGA220	GuardRay Protective Cage 1
Spare Parts	9.1728.01 9.1726.01 9.1727.01	■ Amber PC Lens ■ Blue PC Lens ■ Red PC Lens
Compliance	R65	(E) 00 1241 e1 02 1740



KLX7000 Series

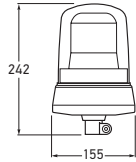
Modular construction featuring sturdy metal housing, impact-resistant Polycarbonate lens and inbuilt EMC shield. Fitted with sturdy magnetic base for quick and secure attachment on vehicle roof.



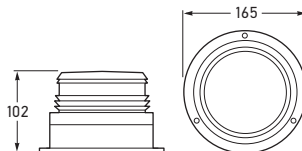
Part Number	1606 - Magnetic Mount, Double Flash, 12V DC	■ AMBER
Mounting	Magnetic Mounting on horizontal surfaces. Supplied with spiral cable (extends up to 2.5m) and 2-pole plug for cigarette lighter or standard DIN ISO sockets.	
Voltage	12V DC	
Current Draw	12V DC - 3.3A	
Power Consumption	12W	
Flash Rate	123 per minute (double).	
Globe to Suit	XN7000 Flash Tube (included)	
Protection	IP5K4K9K	
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.	
Spare Parts	9.1728.01 9.1726.01 9.1727.01	■ Amber PC Lens ■ Blue PC Lens ■ Red PC Lens
Compliance	R65	(E) 00 1241 e1 02 1740

KLX7000 Series

Modular construction featuring sturdy metal housing, impact-resistant Polycarbonate lens and inbuilt EMC shield.



Part Numbers	1607 - Flexible Pipe Mount, Double Flash, 12V DC	■ AMBER
	1607-24V - Flexible Pipe Mount, Double Flash, 24V DC	■ AMBER
Mounting	Flexible Pipe Mounting. Tubular base incorporates connection plug. Must be used in conjunction with connecting piece Part No. 8007, or other HELLA 2-pole beacon mounts. (see page 259).	
Voltage	12V DC 24V DC	
Current Draw	12V DC - 3.3A 24V DC - 1.6A	
Power Consumption	12W	
Flash Rate	123 per minute (double).	
Globe to Suit	XN7000 Flash Tube (included)	
Protection	IP5K4K9K	
Accessories	8007 2-Pole Beacon Mount 8007FM 2-Pole Beacon Mount – Flat 8007RA 2-Pole Beacon Mount – 90° 8007SCR 2-Pole Beacon Mount – Screw	
Spare Parts	9.1728.01 ■ Amber PC Lens 9.1726.01 ■ Blue PC Lens 9.1727.01 ■ Red PC Lens	
Compliance	R65	(E) 00 1241 e1 02 1740



Part Numbers	1643 - Fixed Mount, Double Flash, Multi Voltage	■ BLUE
	1644 - Fixed Mount, Double Flash, Multi Voltage	■ RED
	1645 - Fixed Mount, Double Flash, Multi Voltage	■ AMBER
	1661 - Fixed Mount, Double Flash, Multi Voltage	■ GREEN
Mounting	Fixed Mounting on horizontal surfaces.	
Voltage	Multivolt™ 12-48V DC	
Current Draw	0.9 - 0.25A	
Power Consumption	11 Watts, 8 Joules	
Flash Rate	80 +/- 10 per minute, double flash.	
Protection	IP 55 (Protection against dust and water jets)	
Globe to Suit	XN451 Flash Tube (included) ②	
Spare Parts	8028	Magnetic Mounting Kit ①
	9.1643.01	■ Blue lens
	9.1644.01	■ Red lens
	9.1645.01	■ Amber lens
	9.1643.03	Multi-voltage power supply, 12-48V
Compliance	SAE J1318 Class 2	
HELLA does not recommend the magnetic base version for use on a moving vehicle.		

Pulsator 451 Strobe Beacon

The Pulsator 451 low profile, 12 to 48V strobe is ideal for applications that require shock-resistant mounting, water-resistant performance and easy maintenance. The unit is reverse polarity-protected with an isolated earth that enables both negative and positive ground installations.

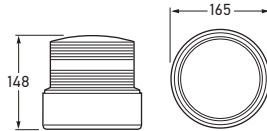


① P/N 8028 (extendable to two metres).

① P/N XN451

602 Series

Low-profile Strobe Lamp featuring impact-resistant Polycarbonate lens and clear dust cover.



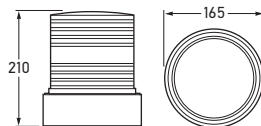
Part Numbers	1668 - Fixed Mount, Double Flash, Multi Voltage	■ BLUE
	1670 - Fixed Mount, Double Flash, Multi Voltage	■ AMBER
Mounting	Fixed Mounting on horizontal surfaces.	
Voltage	12-48V DC	
Current Draw	1.5-0.375A	
Power Consumption	16W (12 joule rating)	
Flash Rate	80 +/-10 per minute (double).	
Globe to Suit	XN602 Flash Tube (included)	
Protection	IP45	
Accessories	8029	Magnetic Mounting Kit ① Caution: Mounting restrictions apply. (see page 258)
	HMWGA160	GuardRay Protective Cage ②
Spare Part	9.1637.03	Multi-voltage Power Supply, 12-48V DC
Compliance	Meets SAE J1318 requirements for Class 2.	



EMERGENCY & SIGNAL

851 Series

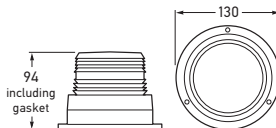
Impact-resistant Polycarbonate lens and clear dust cover.



Part Numbers	1637 - Fixed Mount, Double Flash, Multi Voltage	■ BLUE
	1638 - Fixed Mount, Double Flash, Multi Voltage	■ RED
	1639 - Fixed Mount, Double Flash, Multi Voltage	■ AMBER
	1659 - Fixed Mount, Double Flash, Multi Voltage	■ GREEN
Mounting	Fixed Mounting on horizontal surfaces.	
Voltage	Multivolt™ 12-48V DC	
Current Draw	1.65 - 0.41A	
Power Consumption	16W (12 joule rating)	
Flash Rate	80 +/- 10 per minute, double flash.	
Protection	IP 45	
Globe to Suit	XN850	Flash Tube (included)
Accessories	8029	Magnetic Mounting Kit ① Caution: Mounting restrictions apply. (see page 258)
	HMWGA220	GuardRay Protective Cage ②
Spare Part	9.1637.03	Multi-voltage Power Supply, 12-48V DC
Compliance	Meets shock test MIL-S9-10C, SAE J1318 requirements for class 2, AAMVA certified.	



HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 258).



Part Numbers	1655 - Fixed Mount, Strobe Beacon, Multi Voltage	■ BLUE
	1656 - Fixed Mount, Strobe Beacon, Multi Voltage	■ RED
	1657 - Fixed Mount, Strobe Beacon, Multi Voltage	■ AMBER
	1663 - Fixed Mount, Strobe Beacon, Multi Voltage	■ GREEN
Mounting	Fixed Mounting on horizontal surfaces.	
Voltage	12-72V DC	
Current Draw	0.24 - 0.04A	
Power Consumption	3 Watts, 2 Joules	
Flash Rate	60 +/- 10 per minute	
Protection	IP 55 (Protection against dust and water jets)	
Globe to Suit	XN000 Strobe tube (included) ②	
Accessories	8027	Magnetic Mounting Kit ① Caution: Mounting restrictions apply. (see page 258)
Spare Part	9.1655.03	Multi-voltage Power Supply, 12-72V DC
Compliance	SAE J1318 Class 3	

HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 258)

Firebolt Plus Series

The Firebolt Plus Strobe features a 2 joule power supply that works from 12 to 72V. Modular construction incorporates a powerful, replaceable strobe tube and vibration-resistant circuit board. The unit also features a tough impact-resistant Polycarbonate lens and base. Applications include fork-lift, electric vehicles, industrial trucks and equipment. Supplied with enclosed base and all necessary mounting hardware (mounts with three bolts).

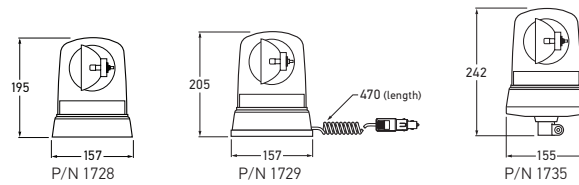


① P/N 8027 (extendable to two metres).

② P/N XN000

KL7000 Series

KL7000 high performance Revolving Beacon has light values well above the minimum requirements. All KL 7000 Beacons can be operated on 12 or 24V by changing the globe. The halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.



Part Numbers	12 VOLT DC		24 VOLT DC	
	1728 - Fixed Mount		1728-24V - Fixed Mount	■ AMBER
	1727 - Fixed Mount		1727-24V - Fixed Mount	■ RED
	1726 - Fixed Mount		1726-24V - Fixed Mount	■ BLUE



Part Numbers	12V - Magnetic Mount, Dual Voltage 12/24V DC*		■ AMBER
	1735 - Flexi-base Mount, Dual Voltage 12/24V DC*		

Current Draw	12V DC - 5.5A 24V DC - 3.5A
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Power Consumption	12V DC - 55W 24V DC - 70W
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Rotation	160rpm
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RF Suppression	Conducted Class 5 (CISPR25).
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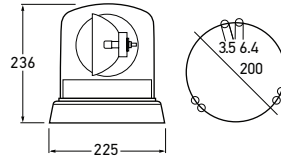
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)
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Globes to Suit	12V C1255 (included) 1728, 1727, 1726, *1729, *1735 24V C2470 (included) 1728-24V, 1727-24V, 1726-24V
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Spare Parts	9.1726.01	■ Blue lens
	9.1727.01	■ Red lens
	9.1728.01	■ Amber lens
	9.1737.91	Two drive belts
	9.1726.23	Reflector assembly
	9.1726.52	Motor assembly 12/24V
	8007	Connecting piece ①
	8007RA	Connecting piece - right angle mount ②
8007FM	Connecting piece - flat mount ③	
8008	Connecting piece - threaded ④	

HELLA does not recommend the magnetic base version for use on a moving vehicle. (see page 258)
See pages 258 & 259 for spare part images.





KL8000 Series

KL8000 Revolving Beacon was developed for large and heavy commercial vehicles. High light values guarantee utmost warning effectiveness and safety. Smooth running is achieved due to the maintenance-free drive bearings and twin-belt technology.

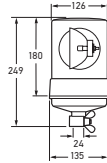
Part Numbers	1794 - Fixed Mount, Dual Voltage 12/24V DC	■ BLUE
	1795 - Fixed Mount, Dual Voltage 12/24V DC	■ RED
	1796 - Fixed Mount, Dual Voltage 12/24V DC	■ AMBER
Current Draw	12V DC - 5.5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Rotation	160rpm	
RF Suppression	Conducted Class 5 (CISPR 25).	
Globe to Suit	12V - C1255 (included) 24V - C2470	
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)	
Spare Parts	9.1794.01 ■ Blue lens 9.1795.01 ■ Red lens 9.1796.01 ■ Amber lens 9.1737.91 Two drive belts 9.1726.52 Motor assembly 12/24V	



P/N 9.1726.52	P/N 9.1794.23
P/N 9.1737.91	

KL600 Series Beacon

Pipe Mount Revolving Beacon. Halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.



Part Numbers	12 VOLT, PIPE MOUNT	24 VOLT, PIPE MOUNT	
	1708	1711	■ AMBER
1709 - Optic Lens	1712 - Optic Lens	■ RED	
1710	1713 - Optic Lens	■ BLUE	

Mounting Pipe Mounting. Tubular base incorporates connection plug. Must be used in conjunction with connecting piece Part No. 8007, or other HELLA 2-pole beacon mounts. (see page 259)

Voltage	12V DC (globe included) 24V DC (globe included)
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Current Draw	12V DC - 5A 24V DC - 3.5A
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Power Consumption	12V DC - 55W 24V DC - 70W
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Rotation	160 +/- 30 rpm
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Protection	IP 45
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Note	1710 version shown
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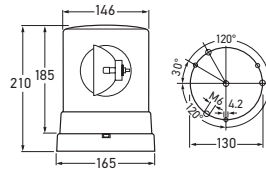
Globe to Suit	12V H1 (C1255) 24V H1 (C2470)
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Accessories	8007 2-Pole Beacon Mount 8007FM 2-Pole Beacon Mount – Flat 8007RA 2-Pole Beacon Mount – 90° 8007SCR 2-Pole Beacon Mount – Screw
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Spare Parts	9.1708.01 ■ Blue Lens 9.1701.01 ■ Red Lens 9.1709.01 ■ Red Lens (optic) 9.1710.01 ■ Amber Lens 9.1713.01 ■ Amber Lens (optic) 9.1717.52 12V Motor with reflector (clip mount) 9.1720.52 24V Motor with reflector (clip mount) 9.1717.23 Reflector Base Assembly (screw mount) 9.1717.54 12V Motor (plastic type) 9.1720.54 24V Motor (plastic type) 9.1737.91 Drive Belts (set of 2)
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P/N 8007	P/N 9.1717.52
P/N 9.1717.23	P/N 9.1717.54
P/N 9.1737.91	

EMERGENCY & SIGNAL



KL700 Series Beacon

KL700 high performance Revolving Beacon. The halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin-belt drive ensures a smooth and quiet operation.



Part Numbers	12 VOLT DC, FIXED MOUNT	24 VOLT DC, FIXED MOUNT	
	1717	1720	■ BLUE
1718	1721	■ RED	
1719	1722	■ AMBER	
1724 - Optic Lens			

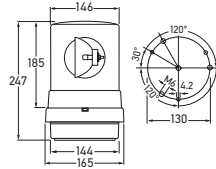
Mounting	Fixed Mounting on horizontal surfaces. 3 x M6 holes for fixing screws, DIN B1: PCD 130mm.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Rotation	160rpm	
RF Suppression	VDE 0879, Class 3, FM 5.	
Globe to suit	12V H1 (C1255) 24V H1 (C2470)	
Protection	IP5K4K9K	
Note	Amber version shown. Mounting restrictions apply when using HELLA Part No. 1653 - Magnetic Mounting Kit	
Accessories	1653 HMWGA220	Magnetic Mounting Kit ① Caution: Mounting restrictions apply. (see page 258) GuardRay Protective Cage ②
Spare Parts	9.1717.01 9.1718.01 9.1719.01 9.1724.01 9.1717.54 9.1720.54 9.1717.52 9.1720.52 9.1737.91 9.1717.23 9.1717.05	■ Blue Lens ■ Red Lens ■ Amber Lens ■ Amber Lens (optic) 12V Motor (plastic type) 24V Motor (plastic type) 12V Motor with reflector (clip mount) 24V Motor with reflector (clip mount) Drive Belts (set of 2) Reflector Base Assembly (screw mount) Base Gasket
HELLA does not recommend the magnetic base version for use on a moving vehicle. (see page 258)		



EMERGENCY & SIGNAL

KL700 Series

Pre-fitted with sturdy Magnetic Base (Part No. 1653) for quick and secure attachment on vehicle roof.

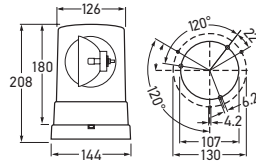


Part Numbers	1719MAG - Magnetic Mount, 12V DC	■ AMBER
	1722MAG - Magnetic Mount, 24V DC	■ AMBER
Mounting	Magnetic Mounting on horizontal surfaces. Supplied with 1.5 metre cable and 2-pole plug for the cigarette lighter socket.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Flash Rate	160 +/- 30 rpm.	
RF Suppression	VDE 0879, Class 3, FM5.	
Protection	IP5K4K9K	
Note	Meets shock test MIL-S9-10C, SAE J1318 requirements for class 2, AAMVA certified.	
Globes to Suit	12V H1 (C1255) 24V H1 (C2470)	
Spare Parts	9.1711.01 ■ Blue Lens 9.1718.01 ■ Red Lens 9.1719.01 ■ Amber Lens 9.1724.01 ■ Amber Lens (optic) 9.1717.54 12V Motor (plastic type) 9.1720.54 24V Motor (plastic type) 9.1717.23 Reflector Base Assembly (screw mount) 9.1717.52 12V Motor with reflector (clip mount) 9.1720.52 24V Motor with reflector (clip mount) 9.1737.91 Drive Belts (set of 2) 9.1717.05 Base Gasket	

HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 258).

P/N 9.1717.23	P/N 9.1717.52
P/N 9.1717.54	P/N 9.1717.05
P/N 9.1737.91	

EMERGENCY & SIGNAL



Part Numbers	12 VOLT DC, FIXED MOUNT	24 VOLT DC, FIXED MOUNT	
	1700	1703	■ BLUE
	1701	1704	■ RED
	1702	1705	■ AMBER

Mounting	Fixed Mounting on horizontal surfaces. 3 x M6 holes for fixing screws. DIN B1: PCD 130mm or 107mm.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Rotation	160 +/- 30 rpm.	
RF Suppression	VDE 0879, Class 3, FM 5.	
Globes to suit	12V H1 (C1255) 24V H1 (C2470)	
Protection	IP5K4K9K	
Note	Amber version shown. Mounting restrictions apply when using HELLA Part No. 1653 - Magnetic Mounting Kit	
Accessories	1653 HMWGA220	Magnetic Mounting Kit ① Caution: Mounting restrictions apply. (see page 258) GuardRay Protective Cage ②
Spare Parts	9.1708.01 9.1701.01 9.1709.01 9.1710.01 9.1713.01 9.1717.52 9.1720.52 9.1717.23 9.1717.54 9.1720.54 9.1737.91	■ Blue Lens ■ Red Lens ■ Red Lens (optic) ■ Amber Lens ■ Amber Lens (optic) 12V Motor with reflector (clip mount) 2 24V Motor with reflector (clip mount) 2 Reflector Base Assembly (screw mount) 3 12V Motor (plastic type) 5 24V Motor (plastic type) 5 Drive Belts (set of 2) 6
HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 258)		

KL710 Series

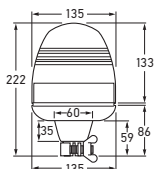
KL710 Revolving Beacon. The halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.



① P/N 1653	② P/N HMWGA220
P/N 9.1717.54	P/N 9.1717.52
P/N 9.1717.23	P/N 9.1737.91

KL Rotoflex Revolving Beacon - Amber

Rotoflex Revolving Beacon with Polycarbonate lens and flexible rubber base.

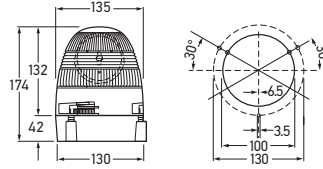


Part Numbers	1730 - Pipe Mount, 12V DC	■ AMBER
	1731 - Pipe Mount, 24V DC	■ AMBER
Mounting	Tubular base incorporates connection plug. Must be used in conjunction with connecting piece P/N 8007, 8007FM, 8007RA or 8008.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Power Consumption	12V - 55W 24V - 70W	
Rotation	160rpm	
RF Suppression	Conducted Class 5 (CISPR 25).	
Globes to Suit	12V C1255 24V C2470	
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)	
Spare Parts	9.1730.01 ■ Amber polycarbonate lens 9.1732.52 Motor 12V 9.1732.54 Motor 24V 9.1730.23 Reflector for Rotoflex 8007 Connecting piece ① 8007FM Connecting piece - flat mount ② 8007RA Connecting piece - right angle mount ③ 8008 Connecting piece - threaded ④	
Compliance	R65	(E) 6509 [e1] 03 2181



EMERGENCY & SIGNAL

EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS



KL Rotafix Series

Revolving Beacon with impact-resistant Polycarbonate optic lens and rubber base.



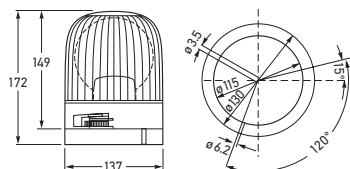
Part Numbers	1732 - Fixed Mount, 12V DC	■ AMBER
	1732-24V - Fixed Mount, 24V DC	■ AMBER
	1733 - Magnetic Mount, 12V DC	■ AMBER
Mounting	Mounting on horizontal surfaces. DIN B1: PCD 130mm or 100mm.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Flash Rate	160 +/- 30 rpm.	
RF Suppression	VDE 0879, Class 3, FM5.	
Protection	IP5K4K9K	
Globes to Suit	12V H1 (C1255) 24V H1 (C2470)	
Compliance	R65	EI 6509 e1 03 2181
HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 258)		



P/N 1733

KL Ranger Series

Impact-resistant Polycarbonate lens.



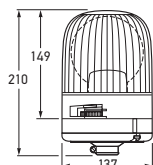
Part Numbers	1786 - Fixed Mount, 12V DC	■ AMBER
	1787 - Fixed Mount, 24V DC	■ AMBER
Mounting	Fixed Mounting on horizontal surfaces. DIN B1: PCD 130mm or 115mm.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5.5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Rotation	160 +/- 30 rpm.	
Protection	IP5K4K9K	
RF Suppression	VDE 0879, Class 3, FM5.	
Globes to Suit	12V H1 (C1255) 24V H1 (C2470)	
Spare Parts	9.1786.01 ■ Amber Lens 9.1786.54 ■ 12V Motor ①	
Compliance	R65 (E) 6509	e1 03 2181



EMERGENCY & SIGNAL

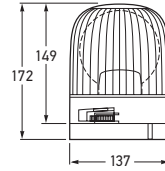
KL Ranger Series

Fitted with impact-resistant Polycarbonate lens and flexible housing base with spring action. Bends on impact (eg. from low hanging tree branches) and returns to its original position, making it ideal for extreme applications.



Part Number	1790 - Flexible Pipe Mount, 12V DC	■ AMBER
Mounting	Flexible Pipe Mounting. Tubular base incorporates connection plug. Must be used in conjunction with connecting piece, Part No. 8007, or other HELLA 2-pole beacon mounts (see page 259).	
Voltage	12V DC (globe included)	
Current Draw	5.5A	
Power Consumption	55W	
Rotation	160 +/- 30 rpm.	
Protection	IP5K4K9K	
RF Suppression	VDE 0879, Class 3, FM5.	
Globes to Suit	12V H1 (C1255)	
Accessories	8007 2-Pole Beacon Mount 8007FM 2-Pole Beacon Mount - Flat 8007RA 2-Pole Beacon Mount - 90° 8007SCR 2-Pole Beacon Mount - Screw	
Spare Parts	9.1790.01 ■ Amber PC Lens 9.1786.54 ■ 12V Motor ①	
Compliance	R65 (E) 6509	e1 03 2181





KL Ranger Series

Pre-fitted with sturdy magnetic base for quick and secure attachment on vehicle roof.



Part Numbers	1792 - Magnetic Mount, 12V DC	■ AMBER
	1793 - Magnetic Mount, 24V DC	■ AMBER
Mounting	Fixed Mounting on horizontal surfaces.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5.5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Rotation	160 +/- 30rpm	
RF Suppression	VDE 0879, Class 3, FM3	
Globes to Suit	12V H1 (C1255) 24V H1 (C2470)	
Protection	IP5K4K9K	
Spare Parts	9.1786.01 9.1786.54	■ Amber Lens 12V Motor ①
Compliance	R65	Ⓔ 6509 Ⓔ 03 2181

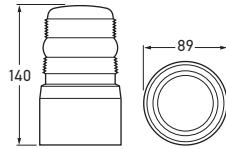
HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 258)



① P/N 9.1786.54

**KL30 Series
Flashing Beacon**

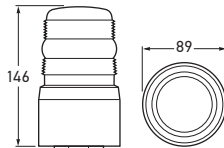
Fresnel Optic Lens. Supplied with 12V flasher unit, Part No. 3008.



Part Numbers	1688 - Fixed Mount, 12V DC	■ RED
	1689 - Fixed Mount, 12V DC	■ AMBER
Mounting	Fixed Mounting on horizontal surfaces (3 x holes for fixing screws).	
Voltage	12V DC (globe included)	
Globe to Suit	12V (U1245)	
Spare Parts	1.6502.012 1.6502.01 1.6502.014 1.6502.013 3008	■ Red Lens ■ Amber Lens ■ Blue Lens ■ Green Lens 12V Flasher Unit

**KL30 Series
Flashing Beacon**

Fresnel Optic Lens. Flasher unit P/N 3008, 3m cable and lighter plug included.

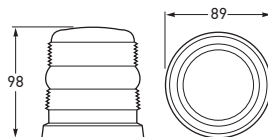


Part Number	1691 - Magnetic Mount, 12V DC	■ AMBER
Mounting	Magnetic Mounting on horizontal surfaces. Supplied with 3m cable and cigarette lighter plug.	
Voltage	12V DC (globe included)	
Globe to Suit	12V (U1245)	
Spare Parts	1.6502.012 1.6502.01 1.6502.014 1.6502.013 3008	■ Red Lens ■ Amber Lens ■ Blue Lens ■ Green Lens 12V Flasher Unit

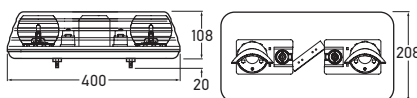
HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 258).

**KL30 Series
Flashing Beacon**

Fresnel Optic Lens. Flasher unit to be ordered separately.



Part Number	1696 - Fixed Mount, 12V DC	■ AMBER
Mounting	Fixed Mounting on horizontal surfaces (3 x holes for fixing screws).	
Voltage	12V DC (globe included)	
Globes to Suit	12V (U1245) 24V (U2445)	
Spare Parts	1.6502.012 1.6502.01 1.6502.014 1.6502.013 3008/3014 3015	■ Red Lens ■ Amber Lens ■ Blue Lens ■ Green Lens 12V Flasher Unit 24V Flasher Unit



Part Number	1811A - Surface Mount, 12V DC	■ AMBER
Mounting	Surface Mount (2 x mounting bolts included)	
Voltage	12V DC (globes included)	
Globe to suit	2 x 12V H1 (C1255)	
Note	HELLA Light Bars may be converted to 24V DC input by changing the globes supplied and adjusting the belt rotation speed. Other lens colours (eg. Red and Blue) can be supplied at very short notice.	
Spare Parts	9.1811A.01 9.1811.05 9.1800.53 9.1800.91 9.1800.92	■ Amber Lens – 400mm Mirror Assembly ① Rotator Module Assembly ② Drive Belt ③ Globe Clip Module Assembly ④

Mini Light Bar

Compact, Low-Profile Light Bar with 2 rotating modules. Fitted with impact-resistant Polycarbonate lens, dual-speed drive belts and stainless-steel bearings for maximum durability. Modular construction enables easy service and exchange of components.

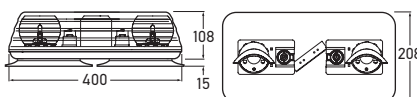


① P/N 9.1811.05

② P/N 9.1800.53

③ P/N 9.1800.91

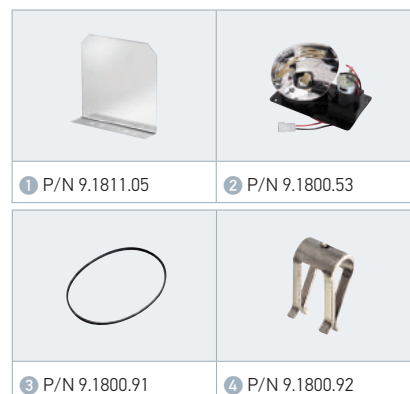
④ P/N 9.1800.92



Part Number	1811MAGA - Magnetic Mount, 12V DC	■ AMBER
Mounting	Magnetic Mounting on horizontal surfaces (2 x cushions and magnets included). Supplied with 2.7m cable and 2-pole plug for cigarette lighter or standard DIN ISO sockets.	
Voltage	12V DC (globes included)	
Globe to suit	2 x 12V H1 (C1255)	
Note	HELLA Light Bars may be converted to 24V DC input by changing the globes supplied and adjusting the belt rotation speed. Other lens colours (eg. Red and Blue) can be supplied at very short notice.	
Spare Parts	9.1811A.01 9.1811.05 9.1800.53 9.1800.91 9.1800.92	■ Amber Lens – 400mm Mirror Assembly ① Rotator Module Assembly ② Drive Belt ③ Globe Clip Module Assembly ④

Mini Light Bar Magnetic Mount

Compact, Low-Profile Light Bar with 2 rotating modules. Fitted with impact-resistant Polycarbonate lens, dual-speed drive belts and stainless-steel bearings for maximum durability. Modular construction enables easy service and exchange of components.



① P/N 9.1811.05

② P/N 9.1800.53

③ P/N 9.1800.91

④ P/N 9.1800.92

**Magnetic Mounting Kit
- KL700 and KL710**



Part Number	1653 - Magnetic Mounting Kit - KL700 and KL710	KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes sturdy magnetic base (145mm dia.), 1.5m cable and 2-pole plug for the cigarette lighter socket.	
Height	35mm.	
Suits	All KL700 and KL710 Series Revolving Lamps	
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.	

**Magnetic Mounting Kit
- Firebolt Plus**



Part Number	8027 - Magnetic Mounting Kit - Firebolt Plus	KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes magnetic base (82mm dia.), spiral cable (extendable to 2m) and 2-pole plug for the cigarette lighter socket.	
Height	11mm.	
Suits	All Firebolt Plus Series Strobe Lamps.	
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.	

**Magnetic Mounting Kit
- Pulsator**



Part Number	8028 - Magnetic Mounting Kit - Pulsator	KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes magnetic base (165mm dia.), spiral cable (extendable to 2m) and 2-pole plug for the cigarette lighter socket.	
Height	11mm.	
Suits	All Pulsator Series Strobe and Flashing Lamps.	
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.	

**Magnetic Mounting Kit
- 602 and 851 Series**



Part Number	8029 - Magnetic Mounting Kit - 602 and 851 Series	KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes magnetic base (82mm dia.), spiral cable (extendable to 2m) and 2-pole plug for the cigarette lighter socket.	
Height	11mm	
Suits	All 602 and 851 Series Strobe Lamps.	
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.	

EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS

Part Number	8007 - 2-Pole Beacon Mount	KIT
Description	2-Pole Beacon Mount for pipe mounting. Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

2-Pole Beacon Mount



Part Number	8007FM - 2-Pole Beacon Mount - Flat	KIT
Description	2-Pole Beacon Mount with bracket for attachment on flat cabin roof surfaces. Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

2-Pole Beacon Mount



Part Number	8007RA - 2-Pole Beacon Mount - 90°	KIT
Description	2-Pole Beacon Mount with 90-degree bracket (50mm) for attachment on flat cabin roof surfaces. Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

2-Pole Beacon Mount



Part Number	8007SCR - 2-Pole Beacon Mount - Screw	KIT
Description	2-Pole Beacon Mount with screw attachment (M24 thread). Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

2-Pole Beacon Mount



Part Numbers	HMWGA100 - Protective Cage - 100mm	GALVANISED
	HMWGA160 - Protective Cage - 160mm	GALVANISED
	HMWGA220 - Protective Cage - 220mm	GALVANISED
Dimensions	HMWGA100	180 x 100mm (d x h)
	HMWGA160	180 x 160mm (d x h)
	HMWGA220	180 x 220mm (d x h)
Suits	HMWGA100	Pulsator 451
	HMWGA160	KL7000LED Pulsator 551 Series 602 Series 6750
	HMWGA220	KL700 KL710 KL7000 KLX7000 Series 851

GuardRay® Protective Cages

GuardRay® cages are hot-dip galvanised for corrosion protection and fabricated from heavy welded steel wire with bases pre-drilled to accept the standard mounting holes of all our popular Warning Beacons and Bases. Beacons mount inside the universal base, and the wire cage is then clamped to the base. A nylon lanyard stops the cage from falling during servicing.



LED Buggy Whips

To meet safety regulations, mine sites often require light vehicles to display high visibility safety flags to improve visibility for drivers of heavy machinery. Mounting onto the bumper bars of light vehicles, these give vehicles an extra layer of visibility.



Part Numbers	HM4612 - Quick Release Mount, Multi Voltage	1.2 METRE
	HM4618 - Quick Release Mount, Multi Voltage	1.8 METRE
	HM4624 - Quick Release Mount, Multi Voltage	2.4 METRE
	HM4630 - Quick Release Mount, Multi Voltage	3 METRE

Mounting	Integrated mounting bolt on base with snap on/off quick-release shaft for quick and easy installation
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Voltage	9-30V DC
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Power Consumption	< 1W
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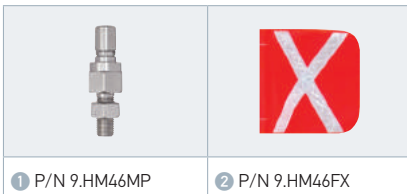
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K7. Shock resistant to 200G.
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Spare Parts	9.HM46MP	Male Pin Connector – Quick Release ①
	9.HM46FX	Replacement Reflective Cross Flags - Silver ②
	9.HM46FXY	Replacement Reflective Cross Flags - Yellow
	9.HM46MS	Medium Spring ③
	9.HM46GL	LED Globe

EMERGENCY & SIGNAL



Snap On/Off quick release mount

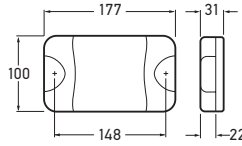


① P/N 9.HM46MP

② P/N 9.HM46FX



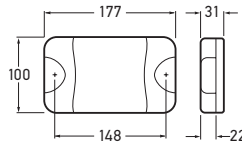
③ P/N 9.HM46MS



Part Numbers	95906080 - Surface Mount, Dual Function, Multivolt™	■ RED
	95907080 - Surface Mount, Dual Function, Multivolt™	■ AMBER
Mounting	Surface Mount (screw caps and mounting bushes included).	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	Circuit 1 - 9W Circuit 2 - 2W	
Lead Length	2.5 metres	
Spare Part	9.2330.08	Screw Cap and Boss Kit

DuraLed® Warning Signal Lamp Dual Function

High-intensity, Signal Optic LED Lamp suitable for use as a warning signal lamp in conjunction with many primary vehicle warning lamp systems.



Part Number	95906050 - Surface Mount, Dual Function, Multivolt™	■ WHITE
Mounting	Surface Mount (screw caps and mounting bushes included).	
Voltage	Multivolt™ (9-33V DC)	
Power Consumption	6W	
Lead Length	2.5 metres	
Spare Parts	9.2330.08	Screw Cap and Boss Kit

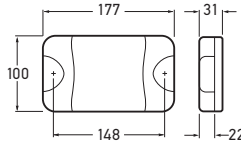
DuraLed® Warning Signal Lamp

High-intensity LED Warning Signal Lamp for specialty applications featuring anthracite grey ends and black caps.



DuraLED® Multi-flash Signal Warning Lamp

Multivolt™ Warning Lamps for emergency vehicles. The HELLA multi-flash range of warning lamps have 10 programmable flash modes and can be synchronised to flash alternately or in unison.



Part Numbers	95903701 - Surface Mount, MultiFLASH®, Multivolt™	RED
	95903711 - Surface Mount, MultiFLASH®, Multivolt™	AMBER
	95903761 - Surface Mount, MultiFLASH®, Multivolt™	BLUE
	95903781 - Surface Mount, MultiFLASH®, Multivolt™	GREEN
	95903791 - Surface Mount, MultiFLASH®, Multivolt™	WHITE

Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts DC.	
Power Consumption	9W continuous (less in flashing modes).	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Spare Parts	9.2330.10	Screw Cap Red (Pack of 4)
	9.2330.16	Screw Cap Amber (Pack of 4)
	9.2330.12	Screw Cap Blue (Pack of 4)
	9.2330.13	Screw Cap Green (Pack of 4)
	9.2330.11	Screw Cap White (Pack of 4)
Compliance	SAE J845 Class 1 (Red and amber versions)	EMC 03 1925



P/N 95903711

P/N 95903761



P/N 95903781

P/N 95903791



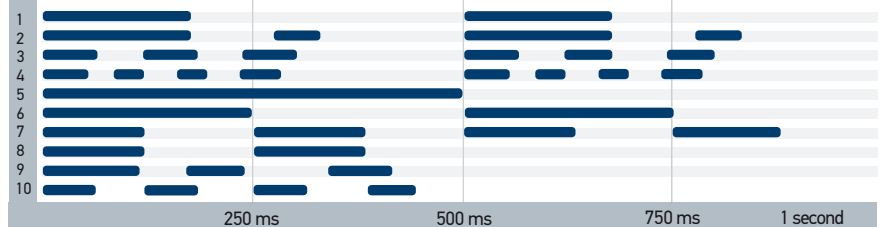
P/N 9.2330.10

EMERGENCY & SIGNAL

HELLA MULTI-FLASH LAMP OPERATING MODES



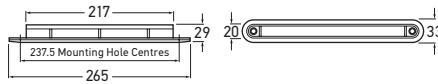
Selectable Flash Patterns



Flashing Options

Steady state	Lamp operates as a continuous ON signal
Independent flash	Lamp operates from an external flashing system
Flash state	Lamp operates in the flash mode preselected by the user
Blitz state	Lamp operates in a burst of quad flashes (pattern 4)

The blitz mode overrides the other operating modes and is triggered by switching the blue cable to negative (-).

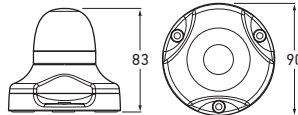
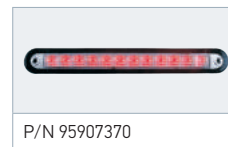


LED Wide Rim Strip Warning Lamp

Covert wide rim strip LED Signal Warning Lamp available in red and blue colour variants. Optic appears clear until illuminated. Includes gasket, screws and screw caps.



Part Numbers	12 VOLT DC		24 VOLT DC	
	95907360 - Recess Mount		95907365 - Recess Mount	■ BLUE
	95907370 - Recess Mount		95907375 - Recess Mount	■ RED
Mounting	Two hole recess mount. May be mounted horizontally or vertically.			
Power Consumption	2W			
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of multi-core cable.			
Spare Parts	9GD959155507	Wide Rim Seal	9HD959182007	Clear Screw Cap
	9HD959182037	Black Screw Cap		
This lamp requires an external flasher unit such as P/N 3040. See page 99 for strip lamp accessories.				



On/Off LED Warning Signal Lamps

Multi-purpose LED 360° Warning Lamps with Grilamid® lens available in four signal colours and white. Optics appear clear until illuminated.



Part Numbers	98091004 - Surface Mount, Multivolt™		■ WHITE
	98091024 - Surface Mount, Multivolt™		■ GREEN
	98091044 - Surface Mount, Multivolt™		■ RED
	98091064 - Surface Mount, Multivolt™		■ AMBER
	98091074 - Surface Mount, Multivolt™		■ BLUE
Mounting	Upright mounting with three point mount.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts DC.		
Power Consumption	5W		
Protection	Reverse polarity and voltage spike protection. IP 67 (Protection against dust and temporary water immersion)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Grilamid®		
Compliance	EMC 03 1679		
See page 264 for multi-flash versions. This lamp requires an external flasher unit such as P/N 3040.			

LED 360° Multi-flash Signal Lamp

Multi-purpose LED 360° Warning Lamp with clear Grilamid® lens, available in four signal colours and white. The HELLA multi-flash range of warning lamps have 10 programmable flash modes and can be synchronised to flash alternately or in unison. Optic appears clear until illuminated.



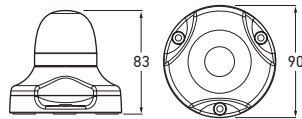
P/N 98091120

P/N 98091140



P/N 98091160

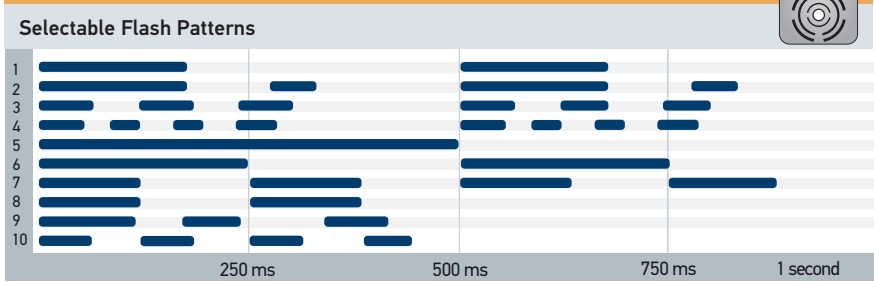
P/N 98091170



Part Numbers	98091100 - Surface Mount, Multivolt™	WHITE
	98091120 - Surface Mount, Multivolt™	GREEN
	98091140 - Surface Mount, Multivolt™	RED
	98091160 - Surface Mount, Multivolt™	AMBER
	98091170 - Surface Mount, Multivolt™	BLUE

Mounting	Upright mounting with three point mount.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts DC.
Power Consumption	Less than 5W (less in flashing modes).
Protection	Reverse polarity and voltage spike protection. IP 67 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Lens Material	Grilamid®
Compliance	EMC e4 03 1679
Lamps shown illuminated (right).	

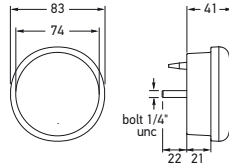
HELLA MULTI-FLASH LAMP OPERATING MODES



Flashing Options	
Steady state	Lamp operates as a continuous ON signal
Independent flash	Lamp operates from an external flashing system
Flash state	Lamp operates in the flash mode preselected by the user
Blitz state	Lamp operates in a burst of quad flashes (pattern 4)

The blitz mode overrides the other operating modes and is triggered by switching the blue cable to negative (-).

EMERGENCY & SIGNAL

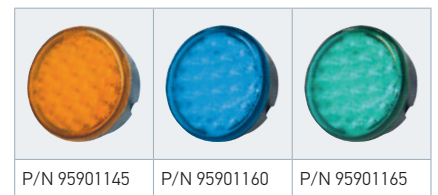


LED 83mm Round Multi-flash Signal Lamp

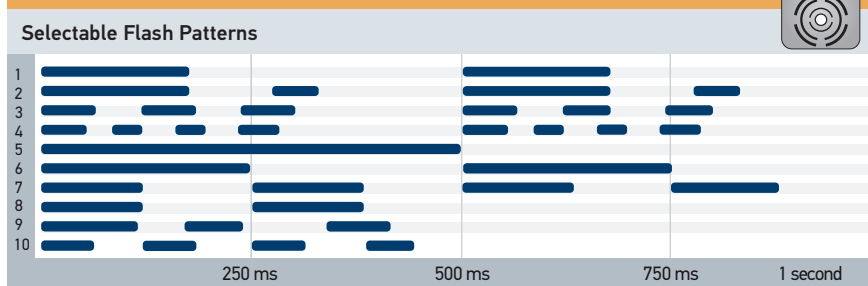
83mm diameter round LED Signal Lamps with single bolt mount for emergency vehicles. The HELLA multi-flash range of warning lamps have 10 programmable flash modes and can be synchronised to flash alternately or in unison.

Part Numbers	95901140 - Flush Mount, Multivolt™	RED
	95901145 - Flush Mount, Multivolt™	AMBER
	95901160 - Flush Mount, Multivolt™	BLUE
	95901165 - Flush Mount, Multivolt™	GREEN
Mounting	Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts DC.	
Power Consumption	6W continuous (less in flashing modes).	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	EMC e4 03 1681	

See page 97 for mounting accessories.



HELLA MULTI-FLASH LAMP OPERATING MODES



Flashing Options	
Steady state	Lamp operates as a continuous ON signal
Independent flash	Lamp operates from an external flashing system
Flash state	Lamp operates in the flash mode preselected by the user
Blitz state	Lamp operates in a burst of quad flashes (pattern 4)

The blitz mode overrides the other operating modes and is triggered by switching the blue cable to negative (-).



Interior/Exterior Lighting

HELLA LED luminaires provide superior quality lighting solutions for reliable performance year after year.





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LED LIGHTING TECHNOLOGY - ENERGY EFFICIENT CRISP WHITE LIGHT

HELLA LED based luminaires are sophisticated opto-electronic devices designed to be highly energy efficient and durable, and are a future-proof, low 'Cost-of-Ownership' solution.



LED based lighting is fast advancing to becoming the logical solution for the cost conscious operator who considers 'Cost-of-Ownership' rather than just the initial purchase price. To design efficient LED luminaires, many factors need to be considered. The LED itself, optics, optic materials, thermal design and drive electronics. These are among the many factors that add up to result in an efficient and durable luminaire.

Lens, Optic Technology and Eye Safety

To take advantage of the ever increasing efficacy of the most advanced LEDs, efficient optic design is essential to capture as much of the luminous flux emitted by the LED as possible. An evenly illuminated surface area is evidence of competent optic design. With significant advances in LED brightness, eye safety considerations are increasingly important.

For interior lights it is essential for high power LEDs to be coupled with optic designs that protect the eye's retina. It is desirable for a large portion of the lens area of a luminaire to be evenly illuminated via an efficient optic rather than using a bundle of LEDs without any optic. Easily visible LEDs inside a luminaire without any optic or lens protection can cause a degree or even significant eye discomfort if viewed directly.

A recent US Department of Energy (DOE) report warns of poorly designed LED luminaires, associating low frequency 'Flicker' with the possibility to trigger epileptic attacks in parts of the population that are susceptible.

Well designed LED lighting systems do carry a higher initial price compared to many other lamps now on offer. For most applications, higher efficiency and long term reliability of a competently designed and manufactured LED luminaire is a convincing Value Proposition.

Heat and Thermal Management

Competent and well engineered thermal management is essential for the long-term durability of HELLA LED luminaires. A common misconception is that LEDs do not generate heat. LEDs consume power and some of this power is also converted to heat, even in the most energy efficient LEDs.

In contrast to incandescent lamps however, LEDs do not like to 'run hot'. As a rule of thumb the hotter an LED runs, the faster it will degrade and in extreme cases result in a much lower light performance and shorter service life.

A noticeably 'hot to touch' exterior surface of a high power LED interior lamp provides some indication that the light output of the device will deteriorate fast, sometimes within a few hundred hours. Well engineered LED devices will operate 'cool' or 'warm' to the touch after many hours of operation. HELLA has many years of technical expertise in developing good thermal designs, when matched with superior optics and electronic design it ensures the long term durability of all our LED lighting products with minimal degradation over many years of service.

Highly efficient white LED luminaires are becoming a solution that make ecological and economic sense for an ever increasing range of applications.



In depth design and engineering know how is required to produce durable products with reliable performance year after year.



Reliability

Due to the solid state nature of LEDs there are no filaments to break, however LEDs do require precise current control, overvoltage and spike protection to avoid any premature damage.

For LED luminaire designers and manufacturers, in depth design and engineering know how is required to produce durable products with reliable performance year after year.

Considerations such as hermetically sealed housings, sealed cable entries, effective electronic protection, shock, vibration and impact resistant components all contribute towards long term reliability. Compared to incandescent lighting, where a filament inside a globe may break at any moment, HELLA LED lighting is designed as a reliable Fit and Forget solution.

Colour Temperature and Rendering

LED based lighting has had a reputation for appearing 'cold' and 'blue' due to their phosphorous coating technology.

However today's high efficacy devices can rival traditional incandescent light sources for colour and ambience. When selecting LED interior lighting, colour temperature is an important consideration.

1850K	Candle
2800K	Halogen Globe (Incandescent Lamp)
2500-3200K	Warm White LED
4600K-5600K	Crisp White LED
6500K	Daylight

Colour temperature is measured in Kelvin and describes the effect of heating an object until it glows incandescently. The emitted radiation, and apparent colour changes in proportion to the temperature; envisioned when considering hot metal in a forge that glows red, then orange, and then white as the temperature increases.

HELLA describes higher colour temperatures (4600K to 5600K) as 'crisp white' and lower colour temperatures as 'warm white'.

'Neutral white' is considered around 4200K range. Crisp white is recommended for visual tasks, work areas and exterior lighting.

Warm white is suggested for interior spaces as it adds life and vibrancy to people and objects. It is considered more flattering to skin tones or fabrics and makes food look fresh and attractive.

**NEW DIMMABLE LOGOS
WHAT DO THEY MEAN?**

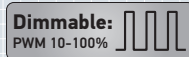
Logos used throughout the Interior/Exterior section to help quick referencing of important product features are explained below.



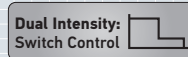
Light intensity is reduced as the DC input voltage is reduced below the lamps specified operating voltage.



Light intensity is controlled through the lamp's own internal circuitry via in-built buttons, an external DC power source and a standard switch. See specific lamp instructions for further information.



Light intensity is adjusted between 10-100% using a high frequency PWM (pulse width modulation) DC power supply, with adjustable duty cycle control.



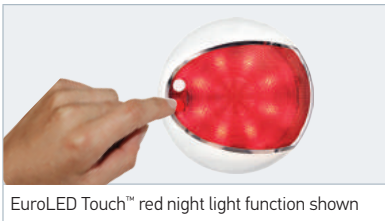
Light intensity can be switched between 100% and a lower level factory pre-set value, usually via an additional cable input supplied with the lamp using a positive feed from the DC power supply within the lamps operating voltage range.

EuroLED® White/Red Touch Lamp

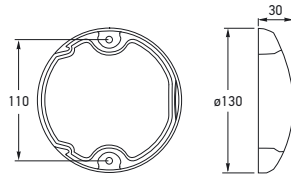
Dual colour EuroLED® Touch Lamps with dimming and momentary switch control. Touch the white or red pads for on/off, hold finger to cycle through dimming levels. Provides ultra long service life and is shock and vibration proof. Clear lens.



P/N 2JA 959 950-021



EuroLED Touch™ red night light function shown



Part Number	BLACK SHROUD	WHITE SHROUD
		2JA 959 950-011
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts.	
Power Consumption	White: 4W Red: 1.5W	■ WHITE/RED
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Accessories	8HG 959 952-002 8HG 959 952-012 9HD 959 027-007 9HD 959 027-017	Mounting spacer - Black Mounting spacer - White EuroLED® Cover - Black EuroLED® Cover - White
Compliance	CE Z208	
See page 96 for EuroLED® accessories.		



P/N 8HG 959 952-002

P/N 8HG 959 952-012

INTERIOR/EXTERIOR

EuroLED®

Advanced LED Lamps with touch sensitive switching. Power saving and ultra durable.

Lighting control is beautifully simple. Touch the colour pad for red light and the white pad for white light. On the dual colour versions, hold your finger on the pad for more than two seconds and the lamp will cycle through four dimming levels. Release your finger on the light level required.

Dual colour EuroLED® Touch lamps can also be remotely operated from multiple points with 'off the shelf' ON/OFF/ON momentary switches. Holding one of the external switches for two seconds will synchronise the lamps to the same dimming level.

Light levels are 'remembered' by the lamps circuitry, even when a vehicle's batteries are turned off.



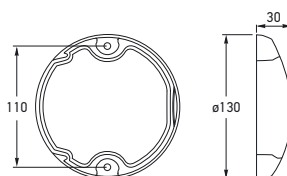
Designed and manufactured in New Zealand, EuroLED® Touch lamps provide red/white, or white only light using the latest completely sealed touch sensitive technology.



The lamp will always turn on at the colour intensity previously set, regardless of power interruption.

EuroLED® Touch power consumption is 4W on white (0.33A @ 12V) and less than 1.5W on red (less than 0.125A @ 12V) to provide significant power savings.

The durability of EuroLED® Touch Lamps is outstanding. Each lamp is completely waterproof, impact and shock resistant, for an ultra long service life. Multivolt™ circuitry provides optimum brightness across a range of input voltages from 9-33V DC, even under severe voltage fluctuations.



EuroLED® White Touch Lamp

White single LED lamp with touch switching and clear lens. Touch the white pad to turn on and the black pad to turn off. Provides ultra-long service life and is shock and vibration proof.

Part Number	BLACK SHROUD	WHITE SHROUD	WHITE
		2JA 959 950-551	
Mounting	Two hole surface mount with mounting bushes supplied.		
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts.		
Power Consumption	4W		
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against temporary water immersion)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Accessories	8HG 959 952-002 8HG 959 952-012 9HD 959 027-007 9HD 959 027-017	Mounting spacer - Black Mounting spacer - White EuroLED® Cover - Black EuroLED® Cover - White	
Compliance	CE Z208		
See page 96 for EuroLED® accessories.			



P/N 2JA 959 950-561



Part Numbers	95982050	WHITE	
	95982030	WARM WHITE	
	95982150	RED	
	95982250	AMBER	
	95982040	CYAN	
	95982070	BLUE	
Mounting	Two hole surface mount with mounting bushes supplied.		
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts.		
Power Consumption	4W		
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against temporary water immersion)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Accessories	8HG 959 952-002 8HG 959 952-012 9HD 959 027-007 9HD 959 027-017	Mounting spacer - Black Mounting spacer - White EuroLED® Cover - Black EuroLED® Cover - White	
Compliance	CE Z208		
See page 96 for EuroLED® accessories.			

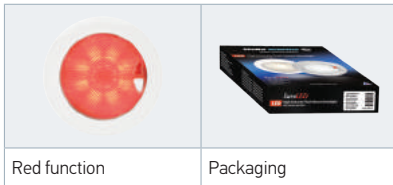
EuroLED® Lamp

White single LED Lamp with clear lens. Provides ultra long service life and is shock and vibration proof. Includes a black and a white rim. No switching or dimming.



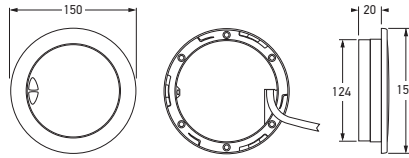
**EuroLED® Touch 150 Downlights
- Dual Colour**

Dual colour EuroLED® Touch Lamps with dimming and momentary switch control. Touch the white pad for on/off, hold finger on the pad to cycle through dimming levels. Provides ultra long service life and is shock and vibration proof. Clear lens.



Red function

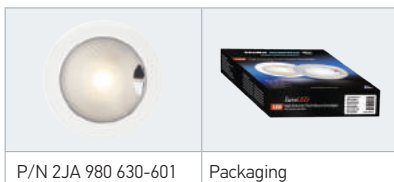
Packaging



Part Numbers	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 980 630-001	2JA 980 630-011	■ WHITE/RED
	2JA 980 630-101	2JA 980 630-111	■ WARM WHITE/RED
Mounting	Recess mount, 124mm hole.		
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts.		
Power Consumption	White: 4W Red: 1.5W		
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.		
Compliance	CE Z208		

**EuroLED® Touch 150 Downlights
- Single Colour**

White single LED Lamp with touch switching and clear lens. Touch the white pad to turn on and the black pad to turn off. No dimming. Provides ultra long service life and is shock and vibration proof.



P/N 2JA 980 630-601

Packaging

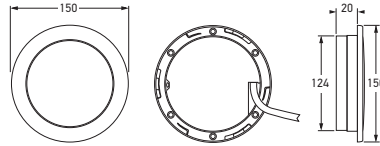
Part Numbers	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 980 630-501	2JA 980 630-511	■ WHITE
	2JA 980 630-601	2JA 980 630-611	■ WARM WHITE
Mounting	Recess mount, 124mm hole.		
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts.		
Power Consumption	4W		
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.		
Compliance	CE Z208		



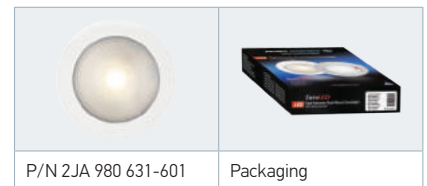
Sealed cable entry

EuroLED® 150 Downlights

White single LED Lamp with clear lens.
Provides ultra long service life and is shock and vibration proof. No switching or dimming.

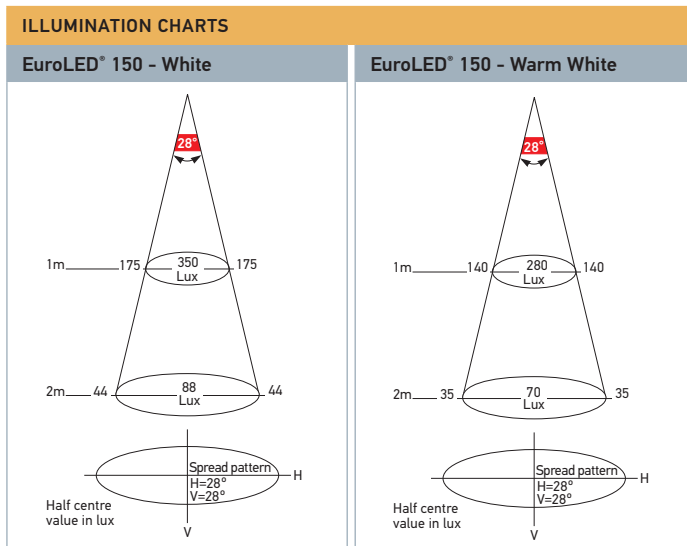


Part Numbers	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 980 631-501	2JA 980 631-511	■ WHITE
2JA 980 631-601	2JA 980 631-611	■ WARM WHITE	
Mounting	Recess mount, 124mm hole.		
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts.		
Power Consumption	4W		
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.		
Compliance	CE Z208		



P/N 2JA 980 631-601

Packaging



Illumination Charts Explained

Our light performance charts show luminance and spread in an easy to read format. At the top is the spread, with the boundary threshold being defined as half the peak luminance. While there is light beyond the indicated angles, the majority of light will be inside the cone shown.

The difference between lux (illuminance) and lumen (luminous flux) is that lux takes into account the area over which the luminous flux is spread. Accordingly the lux figure decreases with distance. Most interior lamps will be installed at around the 2-2.5 metre height.

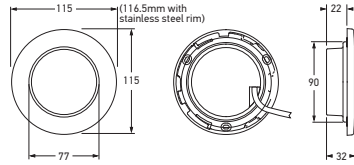
As a guideline, some 40-100 lux is required for corridors and passageways, around 300 lux for reading and 500-800 lux for offices.

The spread pattern may not be designed symmetrical so the spread horizontally (H) and vertically (V) are given.

Luminance is additive, meaning overlapping light patterns or multiple lamps lighting the same surface add their luminance.

EuroLED® 115 Downlights
- With White Spacer

Round LED high intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.



Part Numbers	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 980 820-002	2JA 980 820-012	■ WHITE
2JA 980 820-102	2JA 980 820-112	■ WARM WHITE	
Mounting	Recess mount, 90mm hole. Surface mount via optional spacer.		
Voltage	Multivolt™ for optimum brightness at input voltage from 10 to 33 volts.		
Power Consumption	4.5W		
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.		
Compliance	CE Z208		

EuroLED® 115 Downlights
- With White Spacer and Switch

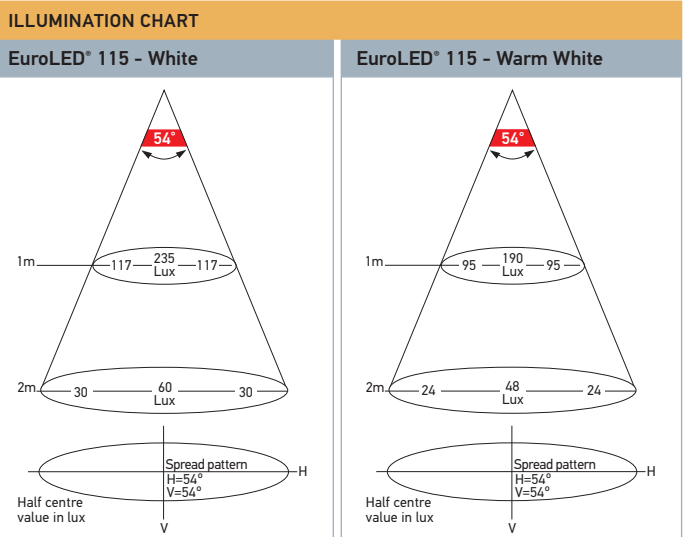
Round LED high intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.



Part Numbers	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 980 828-002	2JA 980 828-012	■ WHITE
2JA 980 828-102	2JA 980 828-112	■ WARM WHITE	
Mounting	Recess mount. Surface mount via spacer.		
Voltage	Multivolt™ for optimum brightness at input voltage from 10 to 33 volts.		
Power Consumption	4.5W		
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.		
Compliance	CE Z208		

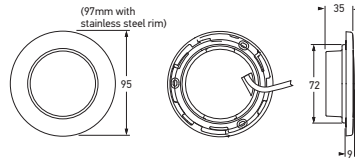


EuroLED® 115 Downlights with switch, expanded view.



**EuroLED® 95 Downlights
- Recess Mount**

Round LED High Intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.



Part Numbers	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 980 940-001	2JA 980 940-011	■ WHITE
	2JA 980 940-101	2JA 980 940-111	■ WARM WHITE
Mounting	Recess mount, 72mm hole. Screw mount.		
Voltage	Multivolt™ for optimum brightness at input voltage from 10 to 33 volts.		
Power Consumption	4W		
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.		
Compliance	CE Z208		

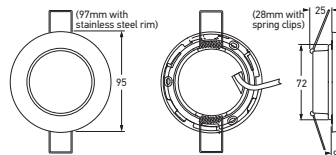


P/N 2JA 980 940-111

Packaging

**EuroLED® 95 Downlights
- Recess Mount With Spring Clip**

Round LED high intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.



Part Numbers	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 980 940-201	2JA 980 940-211	■ WHITE
	2JA 980 940-301	2JA 980 940-311	■ WARM WHITE
Mounting	Recess mount, 72mm hole. Spring clip.		
Voltage	Multivolt™ for optimum brightness at input voltage from 10 to 33 volts.		
Power Consumption	4W		
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.		
Compliance	CE Z208		

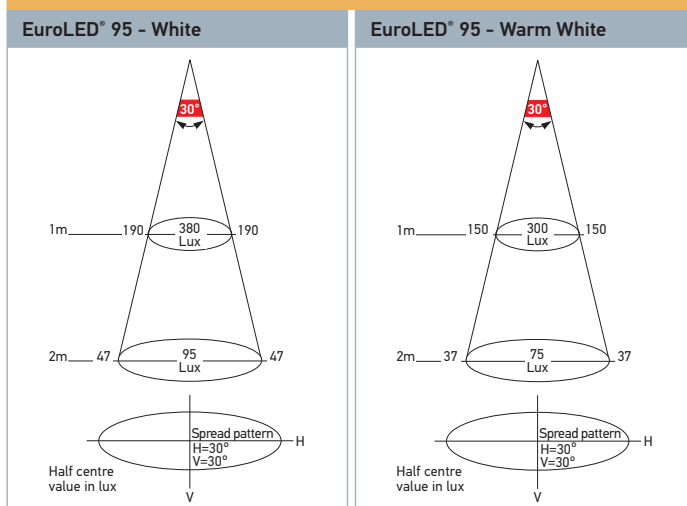


P/N 2JA 980 940-311

Packaging

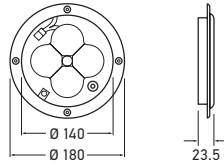
INTERIOR/EXTERIOR

ILLUMINATION CHART



CargoLED Interior Lamp

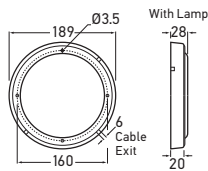
Universal LED Interior Lamp featuring state of the art design and robust construction. Equipped with advanced Luxeon Power LED technology and clear acrylic lens for optimum light distribution without glare. The dust-proof housing is made from high quality aluminium and ABS ensuring maximum durability and long service life, even in extremely cold or humid environments. Fully sealed to withstand high-pressure washing.



Part Number	2604	WHITE
Mounting	Flush Mount	
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 31 volts.	
Power Consumption	6W	
Temperature Range	-40°C to + 60°C	
Protection	Fully sealed against dust and moisture to IP69	
Cable Length	Pre-wired with 310mm of sheathed multi-core cable.	
Compliance	Z208	

CargoLED Mounting Spacer

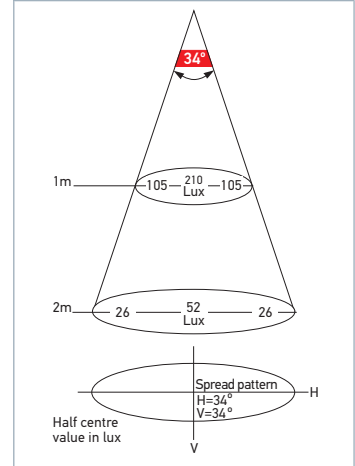
Mounting Spacer designed to suit all CargoLED interior lamps. Enables surface mount with side cable exit.



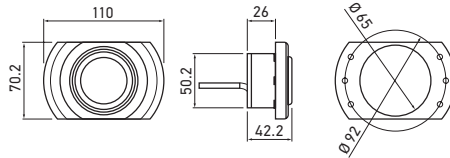
Part Number	9.2604.05
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ILLUMINATION CHART

P/N 2604



INTERIOR/EXTERIOR LIGHTING



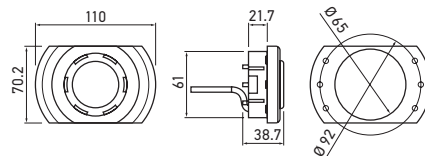
Part Number	2646	■ WHITE
Mounting	Surface Mount. Suitable for horizontal and vertical installation (fastening springs and screw caps included).	
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts.	
Power Consumption	LED 2.5W CELIS® 0.5W	
Protection	Fully sealed against dust and moisture to IP6K9K. Flame retardant to UL94HB.	
Cable Length	Pre-wired with 200mm of sheathed multi-core cable.	
Compliance	Z208	

SpotLED Blue CELIS® Interior Lamp – Fixed

Fixed LED Spotlight featuring impact-resistant Polycarbonate lens and advanced LED technology for superior light distribution. The modern blue CELIS® light ring provides additional ambient illumination. Dust-proof and water-resistant. Main light and ambient light can only be activated separately.



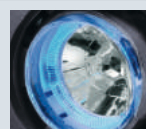
Blue CELIS® - Fixed light ring



Part Number	2647	■ WHITE
Mounting	Surface Mount. Suitable for horizontal and vertical installation (screw caps included).	
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 31 volts.	
Power Consumption	LED 2.5W CELIS® 0.5W	
Protection	Sealed against dust to IP3X.	
Cable Length	Pre-wired with 200mm of sheathed multi-core cable.	
Compliance	Z208	

SpotLED Blue CELIS® Interior Lamp – Adjustable

Adjustable LED Spotlight featuring impact-resistant Polycarbonate lens and advanced LED technology for superior light distribution. The modern blue CELIS® light ring provides additional ambient illumination. Adjustable spot with 20-degree angle to each side.



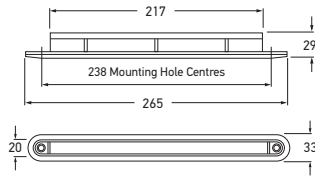
Blue CELIS® - Adjustable light ring

LED White Interior/Exterior Strip Lamp

White LED Interior Lamp with clear UV-resistant acrylic lens. Ideal for steps, interior or exterior courtesy lighting and storage areas.



P/N 2641HB



Part Numbers	12 VOLT DC	24 VOLT DC	
	2641-12V	2641-24V	WHITE
2641HB-12V	2641HB-24V	HIGH BRIGHTNESS WHITE	
Mounting	Recess mount.		
Power Consumption	<2W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Spare Part	9GD 959 155-507	Gasket	

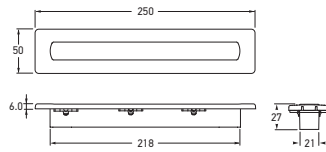
LED Interior/Exterior Strip Lamp

LED Lamp with clear UV impact -resistant lens and attractive stainless steel cover. Stainless steel bezel features a unique internal tab lock for secure attachment and no visible fastenings.



P/N 2651WW

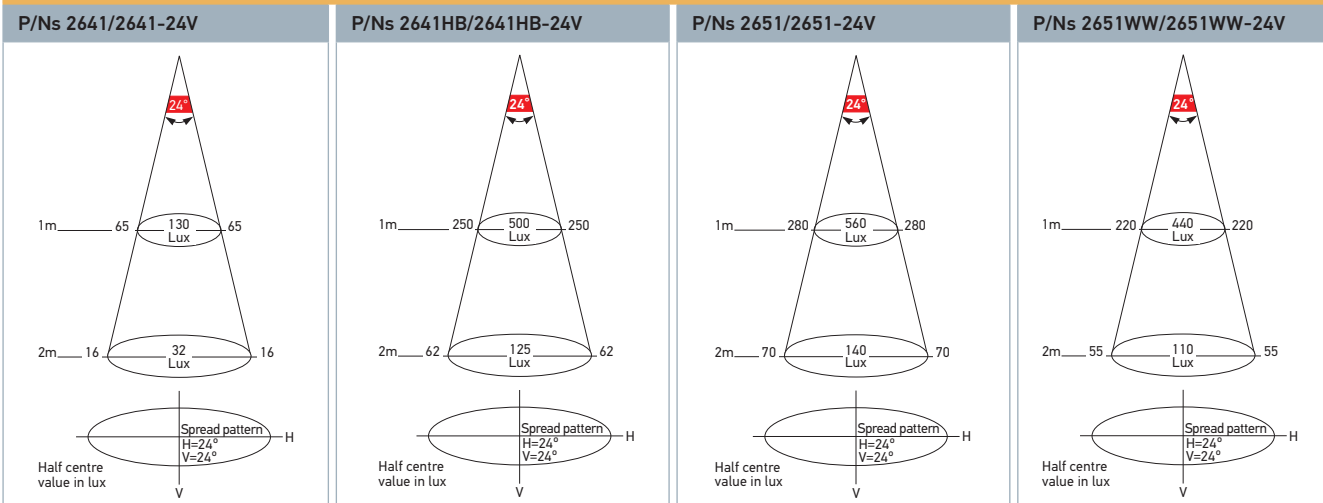
Shown expanded



Part Numbers	12 VOLT DC	24 VOLT DC	
	2651	2651-24V	WHITE
2651WW	2651WW-24V	WARM WHITE	
Mounting	Recess mount.		
Power Consumption	<2W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		

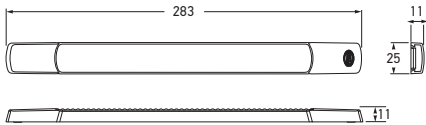
INTERIOR/EXTERIOR

ILLUMINATION CHARTS



LED Interior/Exterior Strip Lamp - Surface Mount

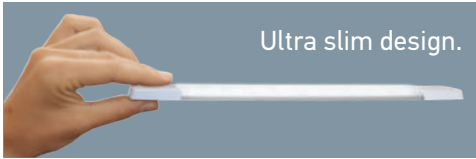
LED Lamp featuring a soft white colour temperature and diffused lens for an evenly spread light. Fully sealed for complete protection against water and dust ingress.



Part Numbers	12 VOLT DC	24 VOLT DC	
	2652	2652-24V	WHITE
2652WW	2652WW-24V	WARM WHITE	

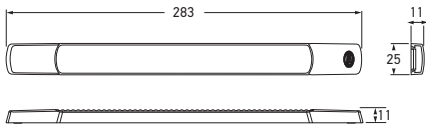
Mounting	Surface mount.
Power Consumption	<3W
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.

See page 99 for surface mount strip lamp screw caps.



LED Courtesy Strip Lamp - Surface Mount

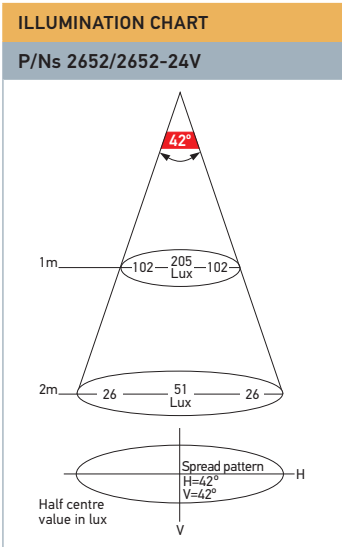
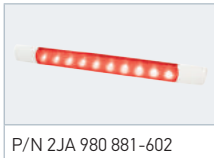
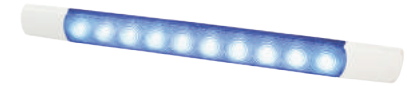
These LED Courtesy Surface Mount Strip Lamps feature a shallow 11mm profile and completely sealed housings. Available in blue and red colour variants.



Part Numbers	12 VOLT DC	24 VOLT DC	
	2JA 980 881-402	2JA 980 881-502	BLUE
2JA 980 881-602	2JA 980 881-702	RED	

Mounting	Surface mount.
Power Consumption	<2W
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.

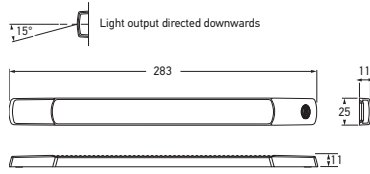
See page 99 for surface mount strip lamp screw caps.



INTERIOR/EXTERIOR

LED Interior/Exterior Awning Strip Lamp – Surface Mount - 15° Spread

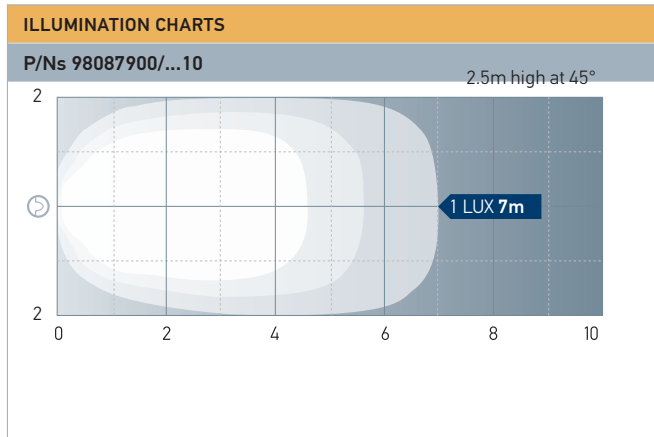
LED Awning Lamp with an ultra slim profile of only 11mm, a heavy duty Grilamid® lens and low power consumption of less than 3W, HELLA's new LED Awning Lamp is ideal for interior and exterior use. It comes complete with charcoal as well as white end caps and can be accessorised with a matching 45° mounting bracket to angle the beam further. Combining state of the art technology with sophisticated looks, this new low profile LED Awning Lamp is a lighting solution which will find many applications. The precision optic, with a 15° downwards spread pattern, is designed to cause minimum glare.



Part Number	12 VOLT DC	24 VOLT DC	WHITE
		98087900	
Mounting	Mounting Two hole surface mount.		
Power Consumption	<3W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of twin core cable.		
Lens Material	Grilamid®		
Spare Parts	8HG 958 000-021 8HG 958 000-011	Mounting bracket 45° - Charcoal Mounting bracket 45° - White	

See page 99 for surface mount strip lamp screw caps.

	
P/N 8HG 958 000-021	P/N 8HG 958 000-011

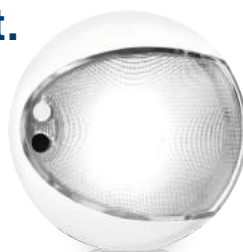


Premium quality 'Fit & Forget' interior LED lighting solutions

Choose HELLA quality LED 'Fit & Forget' lighting products for style, safety and comfort.



LED Internal Lights



LED Courtesy Lights

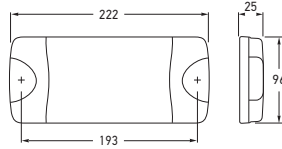


Technology with Vision



**DuraLED® Combi-S White
50 LED Lamp**

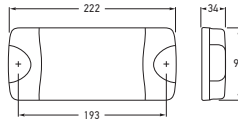
White high brightness LED Lamp with Grilamid® lens. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<12 watts) and low heat. Spread light is suitable for general area lighting. Lens manufactured from Grilamid® clear nylon which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.



Part Number	98060450	SPREAD
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	<12W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Grilamid®	
Compliance	CE Z208	
See page 94 for DuraLED® accessories.		

**DuraLED® Combi White
50 LED Lamp**

White high brightness LED Lamp with Grilamid® lens. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<12 watts) and low heat. Spread light is suitable for general area lighting. Lens manufactured from Grilamid® clear nylon which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.



Part Numbers	WHITE LENS	CHARCOAL LENS	
	98060420	98060421	
98060400	98060403	WIDE SPREAD	
Mounting	Two hole surface mount with mounting bushes supplied.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	<12W		
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Accessories	98071900 98071901	Mounting spacer - Black Mounting spacer - White	
Lens Material	Grilamid®		
Compliance	CE Z208		

INTERIOR/EXTERIOR



P/N 98060403



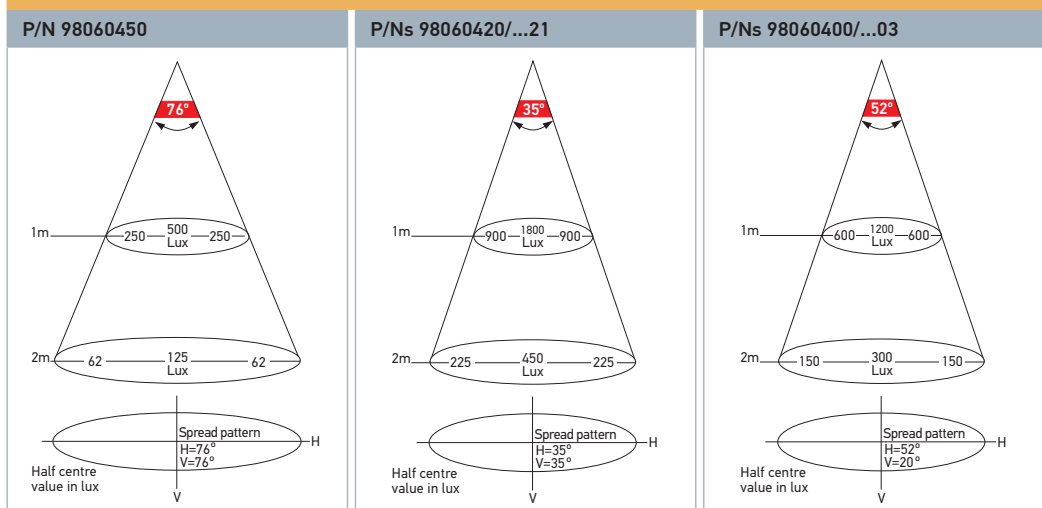
P/N 98071900

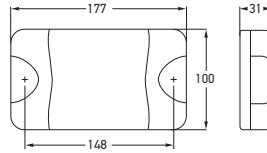


P/N 98071901

Suitable for all DuraLED® Combi Lamps, see page 66.

ILLUMINATION CHARTS





Part Numbers	WHITE LENS		CHARCOAL LENS	
	95903730		95903731	PENCIL
	95903740		95903741	NARROW
	95903720		95903721	SPREAD

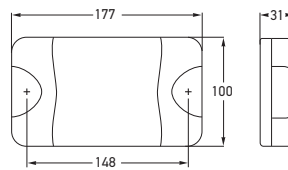
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	<9W
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Lens Material	Grilamid®
Compliance	CE Z208
See page 94 for DuraLED® accessories.	

DuraLED® White 36 LED Lamp

White high brightness LED lamp with Grilamid® lens. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<9 watts) and low heat. Lens manufactured from Grilamid® clear nylon which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.



P/N 9593721



Part Numbers	2JA 959 037-501		DIFFUSED
		2JA 959 037-511	

Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	<9W
Protection	See DuraLED® White 36 LED Lamp above.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Lens Material	Acrylic
Compliance	CE Z208

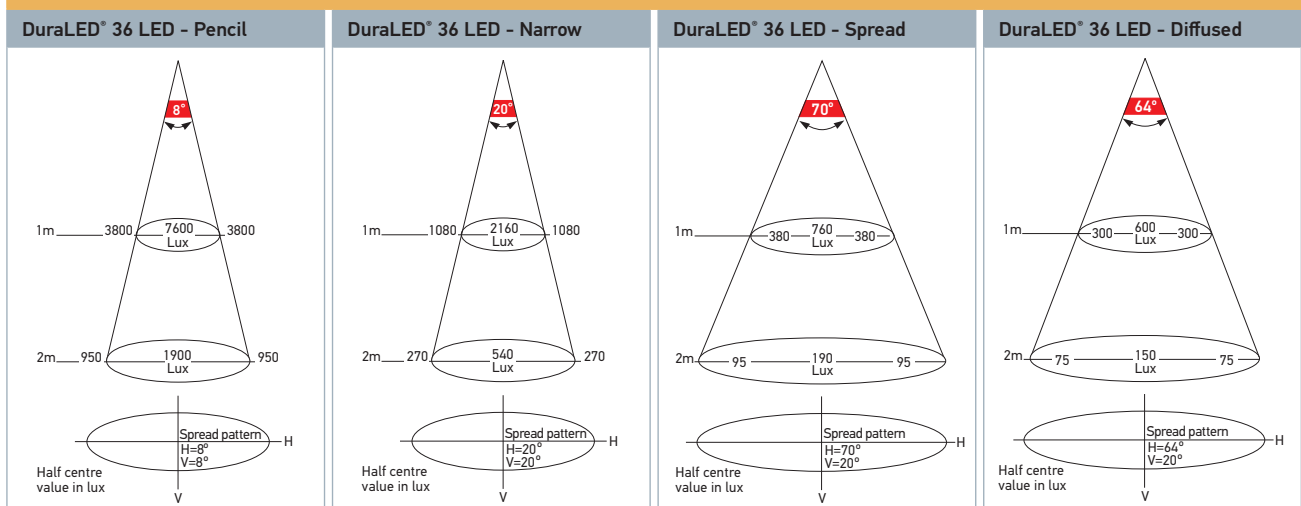
DuraLED® White 36 LED Lamp

White LED Interior Lamp with either a diffusion or clear acrylic lens. The lamps are shock and vibration proof and are fully sealed against dust and moisture ingress.



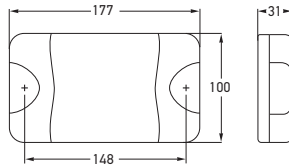
P/N 2JA 959 037-511

ILLUMINATION CHARTS



**DuraLED® 20 LED
Wide Spread Lamp**

White high brightness LED Lamp. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<5 watts) and low heat. The lamp is fully sealed against dust and moisture ingress.



20 LED

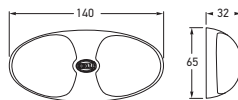
Power Supply
MULTI VOLT

Part Number	98060801	WHITE
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	5W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	CE Z208	

See page 94 for DuraLED® accessories.

**DuraLED® White 12 LED
Wide Spread Lamp**

White high brightness LED Lamp. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<3 watts) and low heat. The lamp is fully sealed against dust and moisture ingress.



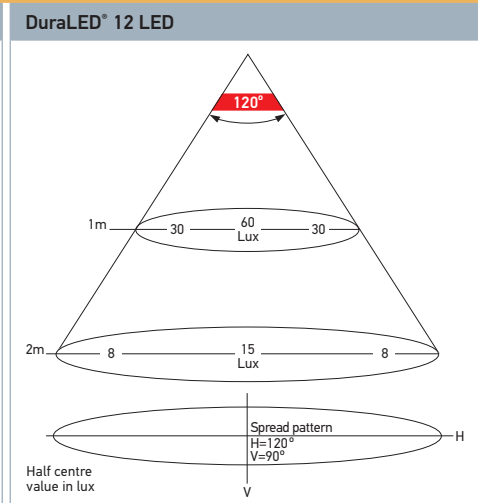
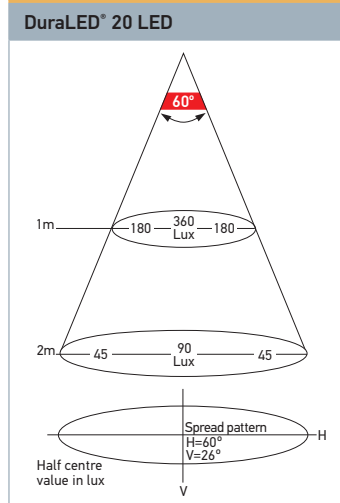
Visibility Optic
Wide

12 LED

Power Supply
MULTI VOLT

Part Number	95970010 (White Shroud)	WHITE
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<3W	
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	CE Z208	

ILLUMINATION CHARTS



INTERIOR/EXTERIOR



Part Numbers	2JA 959 700-121 (Black Shroud)	WHITE
	2JA 959 700-711 (Black Shroud)	WARM WHITE
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<3W	
Colour Temperature	5000K (White) / 3000K (Warm White)	
Temperature Range	-40°C to +60°C	
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 500mm of sheathed multi-core tinned cable.	
Compliance	CE Z208	

DuraLED® White 12 LED Wide Spread Lamp

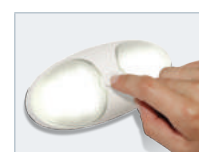
Multi-purpose LED Lamps offering class leading efficiency and durability.



Part Numbers	2JA 980 704-001 (White Shroud)	WHITE
	2JA 980 704-021 (Black Shroud)	WHITE
	2JA 980 704-501 (White Shroud)	WARM WHITE
	2JA 980 704-521 (Black Shroud)	WARM WHITE
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<3W	
Colour Temperature	5000K (White) / 3000K (Warm White)	
Temperature Range	-40°C to +60°C	
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 500mm of sheathed multi-core tinned cable.	
Compliance	CE Z208	

DuraLED® White 12 LED Wide Spread Lamp with Switch

Multi-purpose LED lamps offering class leading efficiency and durability.

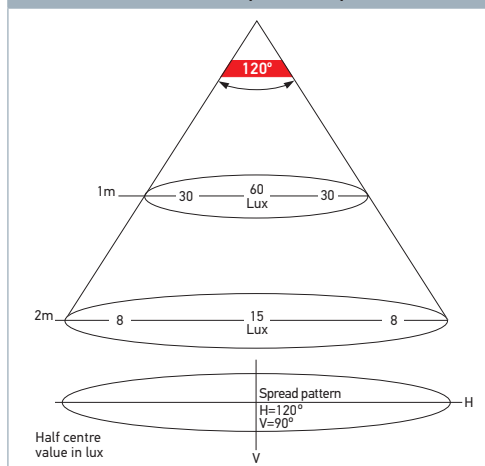


P/N 2JA 980 704-001

INTERIOR/EXTERIOR

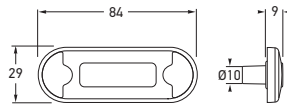
ILLUMINATION CHARTS

DuraLED® 12 LED - Wide Spread Lamp/...with Switch



DuraLED® Surface Mount Courtesy Lamp - Low Profile

These LED Courtesy Lamps feature a shallow 9mm profile and completely sealed housing. Available in a range of colours. Optic appears clear until illuminated.



P/N 98085515	P/N 98085525
P/N 98085535	P/N 98085540
P/N 98085550	

Part Numbers	Colour
98085510	WHITE
98085515	WARM WHITE
98085525	AMBER
98085535	RED
98085540	BLUE
98085550	GREEN

Mounting	Two hole surface mount.
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.
Power Consumption	<0.5W
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.
Lens Material	Grilamid®
Compliance	

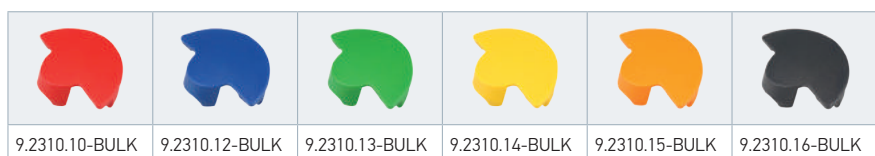
DuraLED® Surface Mount Courtesy Lamp Accessories

Accessory Rims and Screw Caps for the LED surface mount courtesy lamp family.



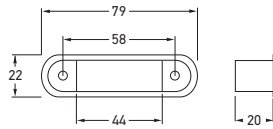
RIMS		
Part Numbers	Colour	Material
95968500	POLISHED	316 STAINLESS STEEL
95968502	GOLD PLATED	
95968506	SATIN CHROME PLATED	

SCREW CAPS		
Part Numbers	Colour	Quantity
9.2310.09-BULK	BLACK	PACK OF 4
9.2310.10-BULK	RED	
9.2310.11-BULK	WHITE	
9.2310.12-BULK	BLUE	
9.2310.13-BULK	GREEN	
9.2310.14-BULK	YELLOW	
9.2310.15-BULK	AMBER	
9.2310.16-BULK	GREY	



LED Narrow Rim Rectangular Courtesy Lamp

Narrow Rim Flush Mount Courtesy Lamp with either white, red, amber, green or blue LEDs.



Part Numbers	12/24 VOLT		
	95951040 (Clear lens)		WHITE
	95951015 (Clear lens)		GREEN
	95951025 (Clear lens)		BLUE

Voltage Multivolt™ for optimum brightness in 12 and 24 volt systems.

Compliance C E



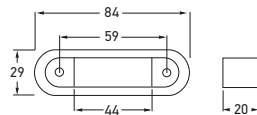
Part Numbers	12 VOLT DC	24 VOLT DC
	95951031	95951033
	95951001	95951006
		RED AMBER

Mounting Recess mount.

Power Consumption <1W

Protection Reverse polarity protection.
IP 6K6 (Protection against dust and high-pressure water jets)
IP 6K7 (Protection against dust and temporary water immersion)

Cable Length Pre-wired with 120mm of cable.



LED Wide Rim Rectangular Courtesy Lamp

Wide Rim Flush Mount Courtesy Lamp with either white, red, amber, green or blue LEDs.

Part Numbers	12/24 VOLT DC		
	95951080 (Clear lens)		WHITE
	95951095 (Clear lens)		GREEN
	95951065 (Clear lens)		BLUE

Voltage Multivolt™ for optimum brightness in 12 and 24 volt systems.

Compliance C E



Part Numbers	12 VOLT DC	24 VOLT DC
	95951071	95951073
	95951051	95951053
		RED AMBER

Mounting Recess mount.

Power Consumption <1W

Protection Reverse polarity protection.
IP 6K6 (Protection against dust and high-pressure water jets)
IP 6K7 (Protection against dust and temporary water immersion)

Cable Length Pre-wired with 120mm of cable.

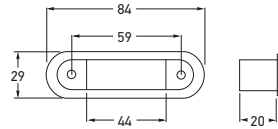
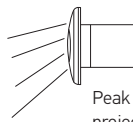


See page 95 and 99 for spare parts and accessories.

INTERIOR/EXTERIOR

LED Wide Rim Rectangular Courtesy Step Lamp

Wide Rim, Flush Mount, Courtesy Step Lamp with either white, red, green or blue LEDs. Optic appears clear until illuminated.

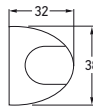
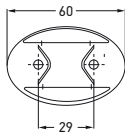


Part Numbers	12/24 VOLT (CLEAR LENS)	
95968080		WHITE
95968070		RED
95968090		GREEN
95968060		BLUE
Mounting	Recess mount.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 120mm of cable.	
Compliance	CE	

See page 95 and 99 for spare parts and accessories.

DuraLED® Surface Mount Courtesy Lamp

Blue, white or green LED Courtesy Lamps. Optic appears clear until illuminated.



Part Numbers	12/24 VOLT (CLEAR LENS)	
95963046		WHITE
95963025		GREEN
95963055		BLUE
Mounting	Two hole surface mount.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of cable.	
Compliance	CE	

See page 95 for spare parts and accessories.

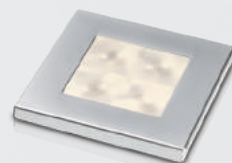


Technology with Vision



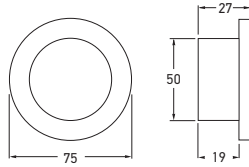
LED Interior Lighting

To suit your lifestyle choice



LED High Intensity Courtesy Lamps

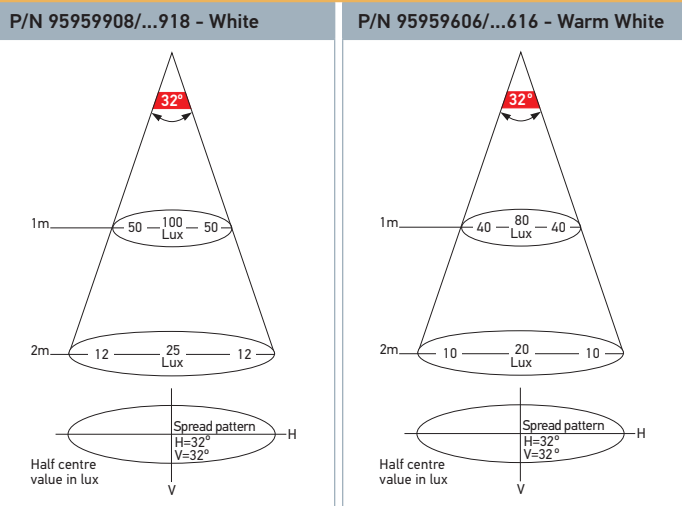
Round LED High Intensity Courtesy Lamps for interior and exterior use. Includes a black and a white plastic rim (as shown). Additional rims and housings are available as spare parts.



P/N 95959606

Part Numbers	12 VOLT DC		24 VOLT DC	
	95959908		95959918	
95959606		95959616		■ WARM WHITE
Mounting	Recess mount with 50mm diameter hole.			
Power Consumption	1W			
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.			
Cable Length	Pre-wired with 120mm of cable.			

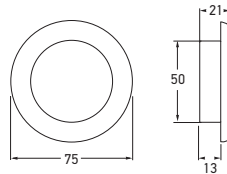
ILLUMINATION CHARTS



INTERIOR/EXTERIOR



LED High Intensity Courtesy Lamps



LED Round Courtesy Lamps - Clear Lens

Attractive, energy efficient Round LED Courtesy Lamps for interior and exterior use. Available in nine exciting colours with a range of different rim finishes. Optic appears clear until illuminated.

Part Numbers	12 VOLT DC		24 VOLT DC		Colour
	98050001		98050101		
98050051		98050151		ENHANCED BRIGHTNESS WHITE	
98050021		98050121		WARM WHITE	
98050071		98050171		ENHANCED BRIGHTNESS WARM WHITE	
98050741		98050841		DEEP RED	
98050721		98050821		RED	
98050761		98050861		ORANGE	
98050701		98050801		AMBER	
98050201		98050301		GREEN	
98050241		98050341		CYAN	
98050221		98050321		BLUE	

Mounting	Recess mount with 50mm diameter hole.
Power Consumption	1W
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 120mm of cable.

Each lamp includes a black and a white plastic rim. Additional rims and housings are available as spare parts.



P/N 98050001



ROUND RIMS - SINGLE		
Part Numbers	Colour	Material
95950501	CHROME PLATED	PLASTIC
95950502	GOLD PLATED	
95950520	BLACK	
95950550	POLISHED	316 STAINLESS STEEL
95950552	GOLD PLATED	
95950556	SATIN CHROME PLATED	

ROUND HOUSING		
Part Numbers	Colour	Material
95999310	BLACK	PLASTIC
95999311	WHITE	

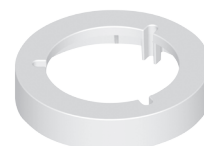
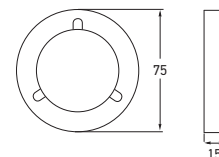
Housing does not suit high intensity courtesy lamps.



P/N 95999310 P/N 95950550 P/N 95950552 P/N 95950556

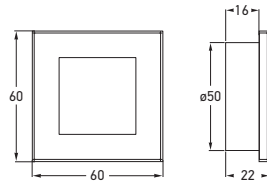
Round Courtesy Lamp Accessories

Spare Rims and housings for the round courtesy lamp family. One rim is required per lamp.



LED High Intensity Courtesy Lamps

Square LED high Intensity Courtesy Lamps for interior and exterior use. Includes a black and a white plastic rim (as shown). Additional rims and housings are available as spare parts.



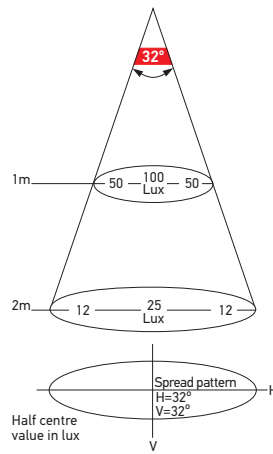
P/N 98059704

Part Numbers	12 VOLT DC		24 VOLT DC	
	98059604		98059614	
98059704		98059714		■ WARM WHITE

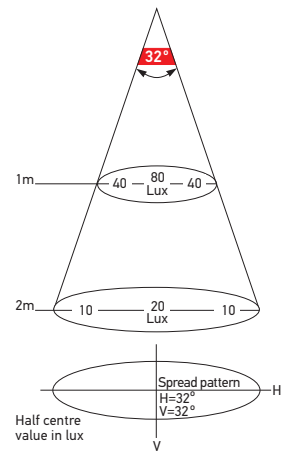
Mounting	Recess mount with 50mm diameter hole.
Power Consumption	1W
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 120mm of cable.

ILLUMINATION CHARTS

P/N 98059604/...614 - White



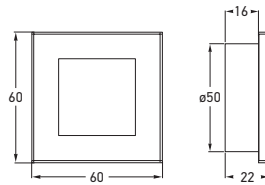
P/N 95959704/...714 - Warm White



INTERIOR/EXTERIOR



Square Courtesy lamps



LED Square Courtesy Lamps - Clear Lens

Attractive, energy efficient Square LED Courtesy Lamps for interior and exterior use. Available in nine exciting colours with a range of different rim finishes. Optic appears clear until illuminated.

Part Numbers	12 VOLT DC		24 VOLT DC		Colour
	98058001		98058101		
98058051		98058151		ENHANCED BRIGHTNESS WHITE	
98058021		98058121		WARM WHITE	
98058071		98058171		ENHANCED BRIGHTNESS WARM WHITE	
98058741		98058841		DEEP RED	
98058721		98058821		RED	
98058761		98058861		ORANGE	
98058701		98058801		AMBER	
98058201		98058301		GREEN	
98058241		98058341		CYAN	
98058221		98058321		BLUE	

Mounting	Recess mount, 50mm diameter hole.
Power Consumption	1W
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 120mm of cable.

Each lamp includes a black and a white plastic rim. Additional rims and housings are available as spare parts.



P/N 98058001



SQUARE RIMS - SINGLE		
Part Numbers	Colour	Material
98058520	BLACK	PLASTIC
98058531	WHITE	
98058501	CHROME PLATED	
98058502	GOLD PLATED	
98058503	SATIN CHROME PLATED	

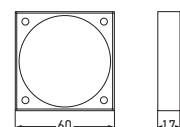
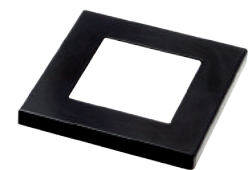
SQUARE HOUSING		
Part Numbers	Colour	Material
95999360	BLACK	PLASTIC
95999354	WHITE	



P/N 95999360 P/N 98058503 P/N 98058502 P/N 98058501 P/N 98058531

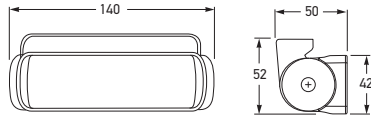
Square Courtesy Lamp Accessories

Spare rims and housings for the square courtesy lamp family. One rim is required per lamp.

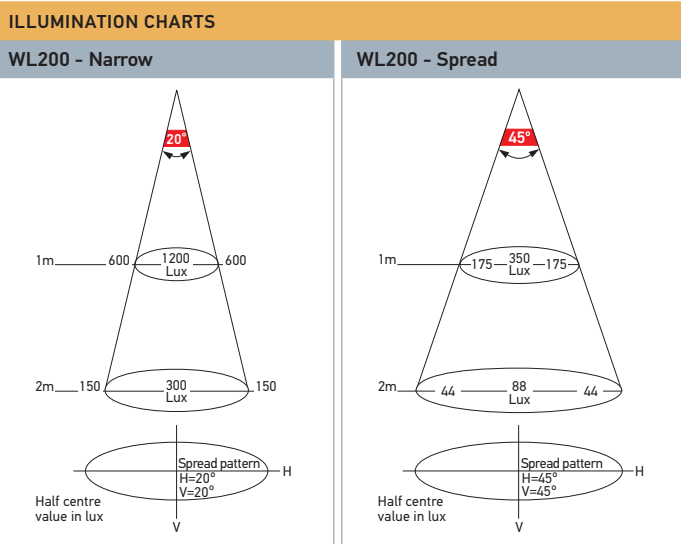


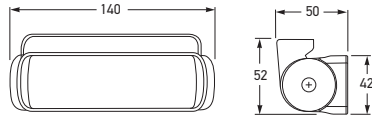
DuraLED® WL200 Work Lamp

LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, chemical resistant Grilamid® lens. Option of two light patterns, narrow or spread.



Part Numbers	NARROW	SPREAD	WHITE
	98067020	98067030	
Mounting	Upright or Pendant.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	3W		
Max. Light Output	200 lumens		
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Grilamid®		
Compliance	CE Z208		





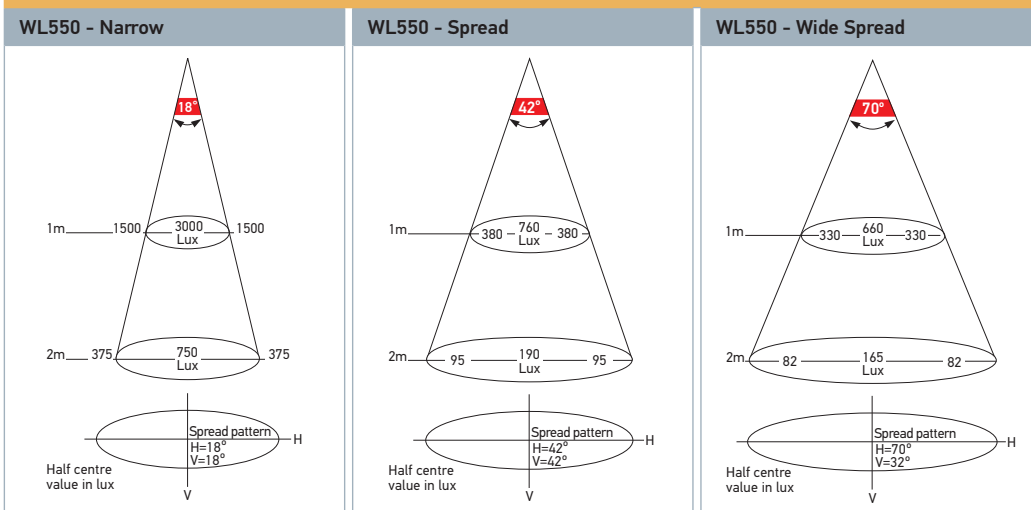
DuraLED® WL550 Work Lamp

LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, chemical resistant Grilamid® lens. Option of two light patterns, spread or wide spread.

Part Numbers	NARROW	SPREAD	WIDE SPREAD	WHITE
	98057330	98057310	98057300	
Mounting	Upright or Pendant.			
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.			
Power Consumption	7W			
Max. Light Output	550 lumens			
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.			
Lens Material	Grilamid®			
Compliance	CE Z208			

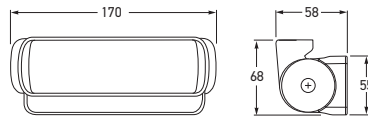


ILLUMINATION CHARTS



DuraLED® WL750 Work Lamp

Featuring an integrated dual-intensity circuit, a high level of spike protection and energy efficient Multivolt™ technology, the innovative DuraLED® WL750 will appeal for applications where energy efficiency and reliability is a must. Features a tough, chemical-resistant Grilamid® lens, a highly impact-resistant Swiss-made crystal clear polyamide with superior tolerance to chemical and long term harsh UV exposure, as well as technologically advanced thermally conductive non-metal housing.



Dual Intensity: Switch Control

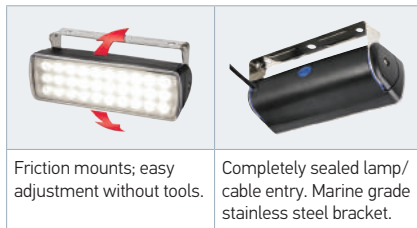
Power Supply
MULTI VOLT

30 LED

Lens Material
GMD

Bracket
STAINLESS STEEL

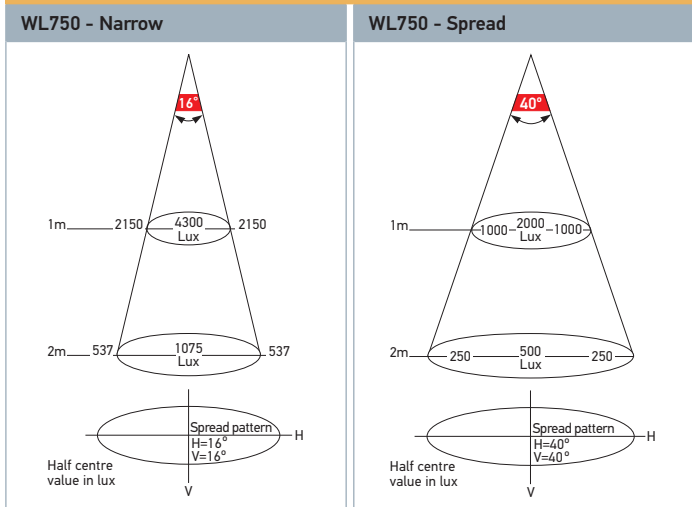
Part Numbers	NARROW	SPREAD	
	98095023	98095003	98095014
	98095033		■ WARM WHITE
Mounting	Upright or Pendant.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	High intensity mode: 12W (1A@12V DC/0.50A@24V DC) Low intensity mode: 2W (0.17A@12V DC/0.08A@24V DC)		
Max. Light Output	650 lumens		
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Grilamid®		
Compliance	CE Z208		

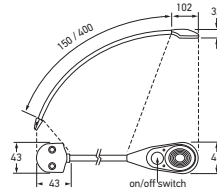


Friction mounts; easy adjustment without tools.

Completely sealed lamp/cable entry. Marine grade stainless steel bracket.

ILLUMINATION CHARTS



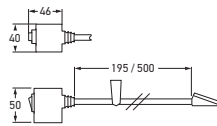


LED Flexible Map Reading Lamp

LED Map Reading Light featuring a strong flexible shaft and an on/off switch on the lamp head. Low power consumption.

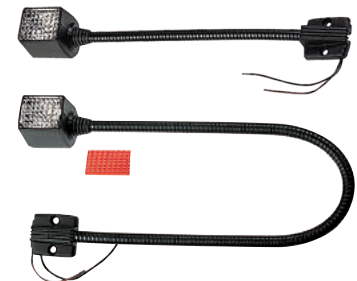


Part Numbers	2638	150MM
	2639	400MM
Mounting	Screw Mount.	
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 31 volts.	
Power Consumption	2.4W	
Protection	Reverse polarity protection. IP 53 (Protection against dust and water spray)	
Cable Length	Pre-wired with 150mm of cable.	
Compliance	CE	
Suitable for interior use only.		

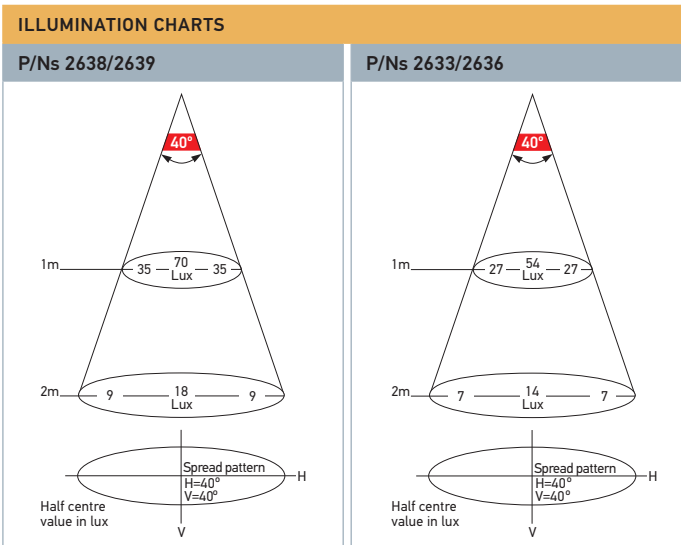


Halogen Map Reading Lamp

Flexible black arm. Lamp head has an integral rocker on/off switch and is fitted with a clear diffuser lens for glare-free illumination. Pillar or dash mounting. Includes additional red lens.



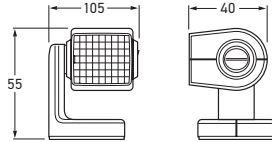
Part Numbers	2633	295MM
	2636	600MM
Mounting	Screw Mount.	
Power Consumption	5W	
Globes to Suit	12V	YL125
	24V	HL247





INTERIOR/EXTERIOR

Map Reading Lamp - 12V DC

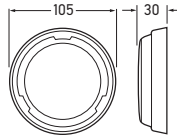
Integrated on /off Rocker Switch. Fitted with opaque white lens for glare-free illumination. Includes additional red lens.



Part Number	2637		 WHITE
Mounting	Pedestal Mount		
Power Consumption	5W		
Globes to Suit	12V	HL126X Minixen (included)	
	12V	YL125 Halogen (optional)	

Roof Lamp

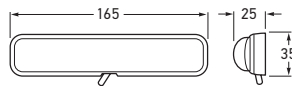
Brilliant-finished rim.



Part Number	2605	CHROME LOOK RIM
Voltage	Globe to be ordered separately.	
Mounting	Surface Mount.	
Function	3 position on / off / door contact switch (suitable for positive door contact only).	
Globes to Suit	2 x 6V	K610
	2 x 12V	K1210
	2 x 24V	K2410

Roof Lamp

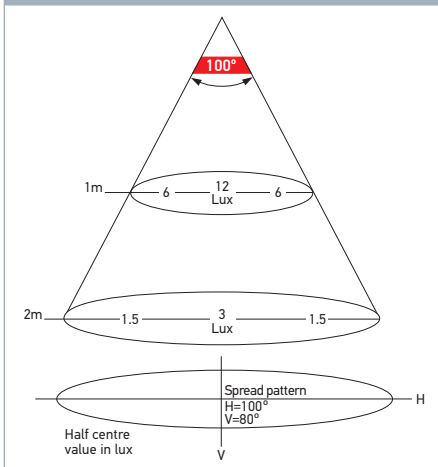
White plastic rim and two globe holders.
Integrated on / off switch.



Part Number	2608	WHITE RIM
Voltage	Globe to be ordered separately.	
Mounting	Surface Mount.	
Globes to Suit	2 x 6V	L65
	2 x 12V	L125
	2 x 24V	L245

ILLUMINATION CHART

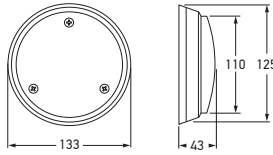
P/N 2608



INTERIOR/EXTERIOR

Interior Lamp

Suitable for insulated earth circuits.



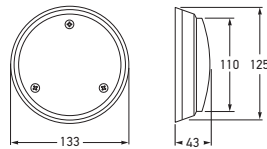
Part Numbers	2610	■ WHITE RIM
	2611	■ CHROME RIM
Globes to Suit	12V 24V	K1210 K2410
Spare Part	2.9800.08	Clear Lens



P/N 2611

Interior Lamp - Polycarbonate Base with Switch

Complete with on/off switch. Suitable for insulated earth circuits.

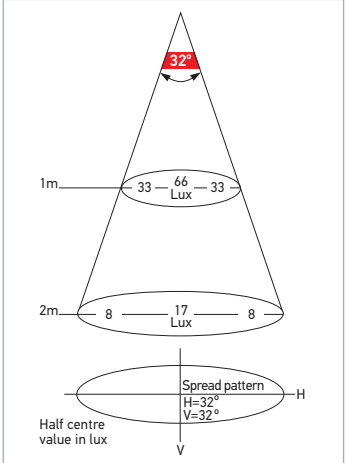


Part Number	2617	■ WHITE RIM
Globes to Suit	12V 24V	K1210 K2410
Spare Part	2.9800.08	Clear Lens

INTERIOR/EXTERIOR

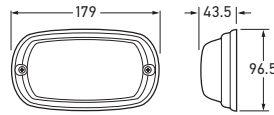
ILLUMINATION CHART

P/Ns 2610/2611/2617



Roof Lamp

Chrome rim and rubber base. Two globe holders. Suitable for insulated earth circuits.

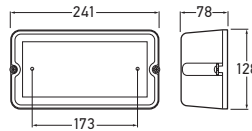


Part Number	2612	CHROME RIM
Voltage	Globe to be ordered separately.	
Mounting	Surface Mount.	
Globes to Suit	2 x 6V	L65
	2 x 12V	L125/K1210
	2 x 24V	L245/K2410
Spare Parts	2.9801.05	Lens
	2.6826.03	Chromed Rim



Caravan Entry Lamp

White base with two globe holders - 240V AC bayonet base and 12V DC bayonet base.

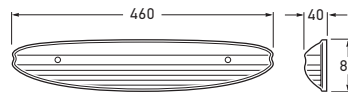


Part Number	2621	WHITE BASE
Voltage	Globes to be ordered separately.	
Mounting	Surface Mount.	
Globes to Suit	12V (FD1221) Bayonet base. 240V 40W Max.	
Spare Part	9.2620.01	Lens
Note	For exterior use only.	



Caravan Entry Lamp - Silver, 12V DC

Entry Lamp with neutral silver-coloured finish. Provides outstanding homogeneous, dazzle-free illumination of doorsteps and the area in front. Suitable for all door widths.

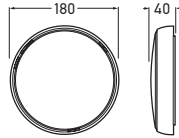


Part Number	2622	12 VOLT
Voltage	12V Globes included	
Mounting	Surface Mount (with 2 screws). Includes moulded sealing gasket with integrated cable grommet.	
Globes to Suit	3 x 12V (L125)	



Round Fluorescent Lamp - 7 Watt

Compact Interior Lamp featuring Multivolt™ electronics with under-voltage and excess-voltage protection. Additional lens seal prevents ingress of dust and moisture allowing use on external applications.

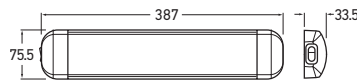


Part Number	2645
Voltage	Multivolt™ for optimum brightness at input voltages from 10 to 33 volts.
Mounting	Surface Mount (with 3 screws)
Power Consumption	7W Fluorescent twin tube included
Cable Length	120mm
Protection	Sealed against dust and moisture to IP6K4
Globes to Suit	FL7CW4P FL7WW4P
RF Suppression	EN 55 015/2000 (disturbance voltage, magnetic field strength) EN 61 547/1995 + A1/2000 (EMC-immunity) EN 61 000-4-3:96 + A1:98 + A2:01 (electromagnetic field immunity) EN 61 000-4-2:95 + A1:98 + A2:01 (electrostatic discharge) EN 61 000-4-4:95 + A1:01 + A2:01 (electrical fast transient/burst immunity) EN 61 000-4-5:95 + A1:01 (immunity-surge) EN 61 000-4-5:96 + A1:01 (immunity of conducted RF-disturbance, inducted by RF-field in the frequency range from 150kHz to 80Mhz) EN 61 000-4-8:93 + A1:01 (power frequency magnetic field)

Fluorescent Lamp - 8 Watt

Tough, impact resistant housing with integrated on / off switch. New and improved design.

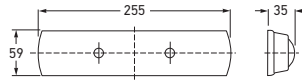
INTERIOR/EXTERIOR



Part Number	7033	12 VOLT
Mounting	Surface Mount (2 screws)	
Current Draw	1 x tube - 0.5 Amps 2 x tubes - 0.9 Amps	
Globe to Suit	FL8	

Fluorescent Lamp - 7 Watt

High quality, fully suppressed Fluorescent Interior Lamp with impact resistant lens, on/off switch and compact fluorescent tube 7W.

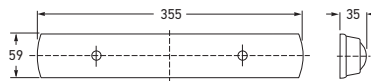


Part Numbers	2642		12 VOLT DC
	2642-24V		24 VOLT DC
Mounting	Surface Mount.		
Power Consumption	4W @ 12V DC, 8W @ 24V DC		
Globes to Suit	FL7CW4P FL7WW4P		
RF Suppression	Suppression Class K in accordance with VDE 0871 Class B and VDE 0879 Part 3.		



Fluorescent Lamp - 11 Watt

High quality, fully suppressed Fluorescent Interior Lamp with impact resistant lens, on/off switch and compact fluorescent tube.

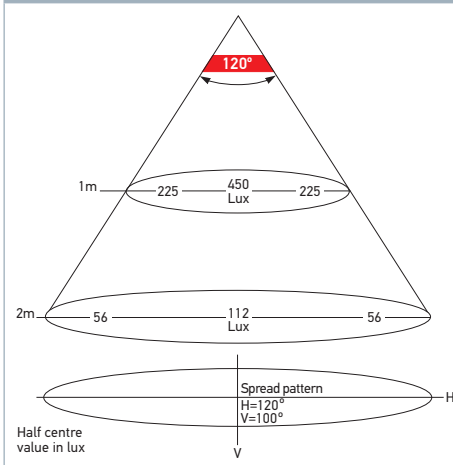


Part Numbers	2643		12 VOLT DC
	2643-24V		24 VOLT DC
Mounting	Surface Mount.		
Power Consumption	7W @ 12V DC, 14W @ 24V DC		
Globes to Suit	FL11CW4P FL11WW4P		
RF Suppression	Suppression Class K in accordance with VDE 0871 Class B and VDE 0879 Part 3.		

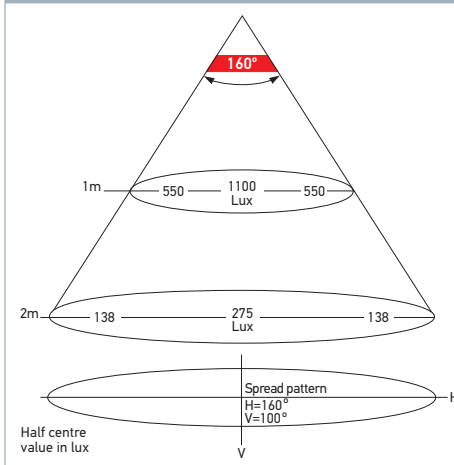


ILLUMINATION CHARTS

P/Ns 2642/2642-24V



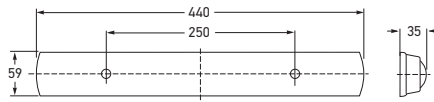
P/Ns 2643/2643-24V



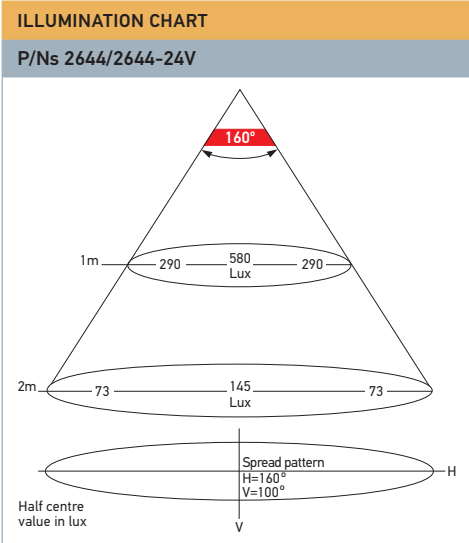
INTERIOR/EXTERIOR

Fluorescent Lamp - 8 Watt

High quality, fully suppressed Fluorescent Interior Lamp with impact resistant lens, on/off switch and compact fluorescent tube.



Part Numbers	2644	12 VOLT DC
	2644-24V	24 VOLT DC
Mounting	Surface Mount.	
Power Consumption	5W @ 12V DC, 10W @ 24V DC	
Globe to Suit	FL8	
RF Suppression	Suppression Class K in accordance with VDE 0871 Class B and VDE 0879 Part 3.	



Premium Quality LED interior lighting solutions

Choose HELLA quality LED 'Fit & Forget' lighting products for style, safety and comfort.



LED Internal Lights



LED Strip Lights



LED Courtesy Lights

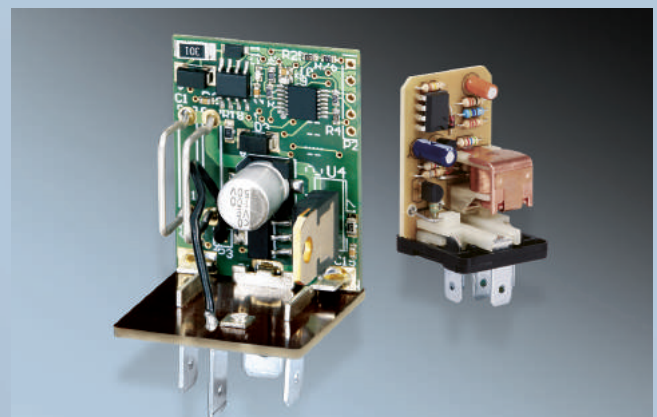
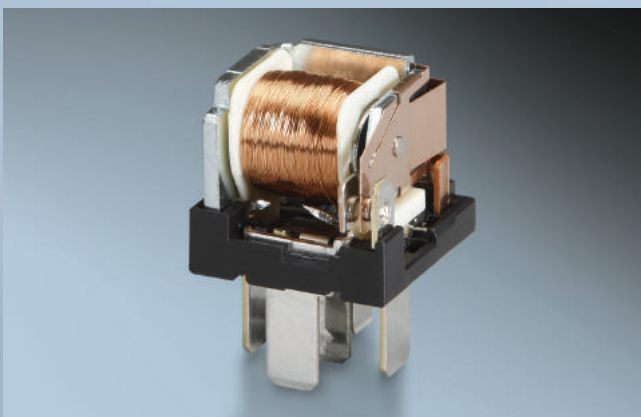
Technology with Vision





Relays and Flasher Units

HELLA manufactures more than 100 million units per year and thanks to optimised production, HELLA relay and flasher units consistently benchmark with the highest reliability in the industry.



Contents

Relays and Flasher Units

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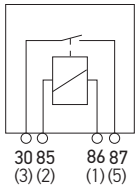
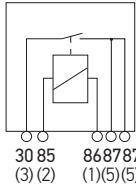
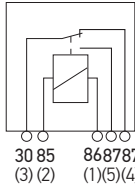
HELLA RELAYS

HELLA offers a comprehensive range of relays to suit 12 and 24 volt applications. Quality accessories facilitate the expansion into new applications and provide customers with new solutions.

COMMON PIN DESIGNATIONS FOR RELAYS

Pin No.	Description	Eliminating Voltage Spikes Voltage spikes from 300V to 500V can occur momentarily when a relay is switched off. Sensitive electronic equipment can be damaged or malfunctions can occur if these spikes reach the vehicle electrical network without suppression. A relay with a diode eliminates voltage spikes completely.
85/2	Earth (end of winding to ground or negative)	
86/1	Positive	
87/5	Output (to consumer e.g. driving lamp)	
87a/4	Alternative output (1st output, break side)	
30/3	Positive supply (Input from + battery terminal, direct)	

The Different Types of Relays

The Normally Open Relay	The Normally Open Relay with Dual Output	The Change-over Relay
 <p>30 85 86 87 (3) (2) (1) (5)</p>	 <p>30 85 86 87 87a (3) (2) (1) (5) (5)</p>	 <p>30 85 86 87 87a (3) (2) (1) (5) (4)</p>
<p>A normally open relay is used to close the electric circuit between power source and electrical load, i.e. the load is switched on. Relays are operated by means of switches, pulse generators or control devices.</p> <p>Application: Headlamps, auxiliary driving lamps, auxiliary fog lamps, horns, heaters, motors for fans and power windows, air-conditioners and ignition assemblies.</p>		<p>The change-over relay changes the load path from one electrical load to another. The relay is operated by a dashboard switch.</p> <p>Application: Switching over from town horn to fanfare horn, for 2 speed appliances such as heated rear window or fan motors.</p> <p>Change-over relays can be used as:</p> <ul style="list-style-type: none"> • Change-over relays • Normally open relays • Normally closed relays

Relays have been predicted to be obsolete in modern vehicles, however the automotive industry needs relays since relay functions cannot always be replaced by control units. Only relays make "galvanic isolation" possible between input and output. Semi-conductor devices cannot manage this at the moment. Another positive factor is the cost advantage relays have compared with an electronic solution.

In motor vehicles, relays are used to switch high currents. For example the engine control unit is switched by a relay. Their sturdiness allows them to be installed near electric consumers. As only low control currents are required, the cable cross-sections can be kept small. The switching/amplifier function of a relay can only be achieved with a lot more effort and a lot less reliability using "modern" electronics. An additional advantage is that the replacement of a relay is quick and easy. These characteristics guarantee that relays will have a regular place in many vehicles for a long time to come.

Trust in our Quality Relays

- Production expertise: HELLA produces more than 100 million relays per year. Thanks to optimised production we can offer a competitive price for customers. HELLA relays have an extremely low failure rate.
- OEM customers: HELLA develops and produces relays for AGCO, Claas, Daimler AG, Ford, VW, GM, JCB, Opel, Nissan, John Deere, Chrysler and Jaguar/Land Rover among others. We have been working with many customers for decades.

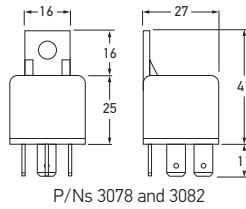
RELAY QUICK REFERENCE CHART

MINI RELAYS - NORMALLY OPEN								
Part Numbers	Voltage	Pins	Function	Protection	Maximum Load	Current Draw	Bracket	Description
3078	12V DC	4	N/O		30A	140mA	Yes	
3053	12V DC	4	N/O	Diode	40A	170mA	Yes	
3059	12V DC	4	N/O	Diode	50A	210mA	Yes	Terminals 30 and 87 are 8.1mm terminals
3082	12V DC	5	N/O		40A	140mA	Yes	
3055	12V DC	5	N/O	Diode	40A	170mA	Yes	
3079	24V DC	4	N/O		30A	70mA	Yes	
3054	24V DC	4	N/O	Diode	22A	90mA	Yes	
3060	24V DC	4	N/O	Diode	30A	90mA	Yes	Terminals 30 and 87 are 8.1mm terminals
3056	24V DC	5	N/O	Diode	22A	90mA	Yes	
MINI RELAYS - NORMALLY OPEN FUSED								
3076	12V DC	4	N/O		25A	140mA	Yes	
3077	24V DC	4	N/O		15A	80mA	Yes	
MINI RELAYS - CHANGE-OVER								
3080	12V DC	5	N/O-N/C		30-87, 30A/30-87a, 20A	140mA	Yes	
3057	12V DC	5	N/O-N/C	Diode	30-87, 40A/30-87a, 15A	170mA	Yes	
3081	24V DC	5	N/O-N/C		30-87, 20A/30-87a, 10A	70mA	Yes	
3058	24V DC	5	N/O-N/C	Diode	30-87, 22A/30-87a, 10A	90mA	Yes	
HIGH CAPACITY RELAYS - NORMALLY OPEN								
3084	12V DC	4	N/O		60A	140mA	Yes	Terminals 30 and 87 are 9.5mm terminals
3061	12V DC	4	N/O		180A peak (100A continuous)	380mA	Yes	
3085	24V DC	4	N/O		60A	70mA	Yes	Terminals 30 and 87 are 9.5mm terminals
3062	24V DC	4	N/O		80A peak (60A continuous)	180mA	Yes	
TIME CONTROL RELAYS								
3086-12V	12V DC	5	N/O-N/C	Contact opened 10A, Contact closed 20A 30min			Yes	
3087-12V	12V DC	5	N/O-N/C	Contact opened 10A, Contact closed 20A 30min			Yes	
3086-24V	24V DC	5	N/O-N/C	Contact opened 10A, Contact closed 20A 30min			Yes	
3087-24V	24V DC	5	N/O-N/C	Contact opened 10A, Contact closed 20A 30min			Yes	

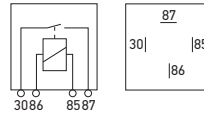
Normally Open Mini Relay



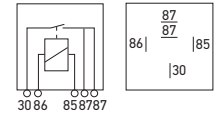
P/Ns 3078 and 3082



P/Ns 3078 and 3082



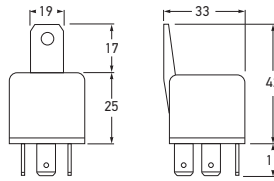
P/N 3078



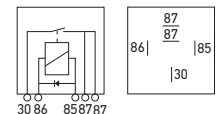
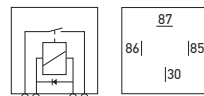
P/N 3082

Part Numbers	3078	4 PIN	12 VOLT DC
	3082	5 PIN	
Maximum Load	P/N 3078: 30A	P/N 3082: 40A	
Current Draw	140mA		

Normally Open Mini Relay with Diode



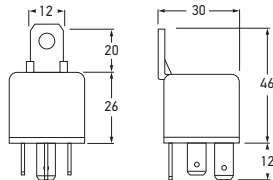
P/N 3053



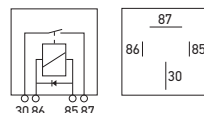
P/N 3055

Part Numbers	3053	4 PIN	12 VOLT DC
	3055	5 PIN	
Maximum Load	40A		
Protection	Diode		
Current Draw	170mA		

Normally Open Mini Relay with Diode

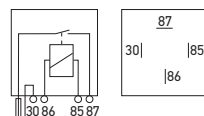
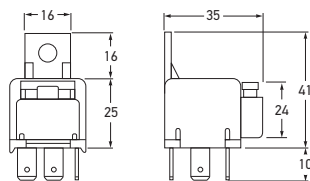


Terminals 30 and 87 are 8.1mm terminals



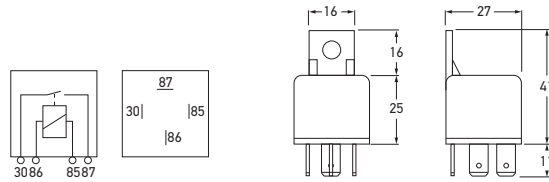
Part Number	3059	4 PIN	12 VOLT DC
Maximum Load	50A		
Protection	Diode		
Current Draw	210mA		

Normally Open Fused Relay



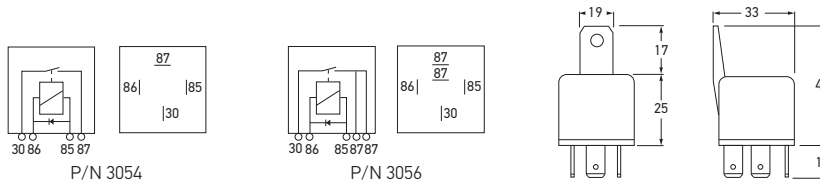
Part Number	3076	4 PIN	12 VOLT DC
Maximum Load	25A with 25A fuse		
Current Draw	140mA		

RELAYS AND FLASHER UNITS



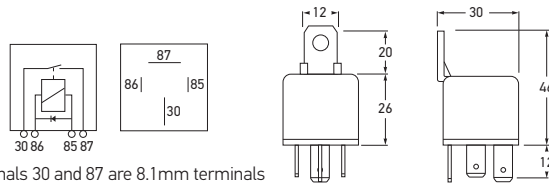
Part Number	3079		4 PIN	24 VOLT DC
Maximum Load	30A			
Current Draw	70mA			

Normally Open Mini Relay



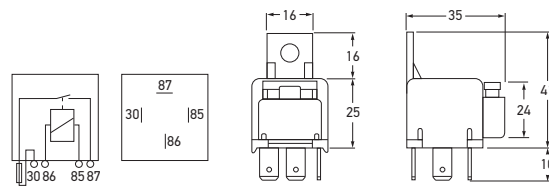
Part Numbers	3054	4 PIN	24 VOLT DC
	3056	5 PIN	
Maximum Load	22A		
Protection	Diode		
Current Draw	90mA		

Normally Open Mini Relay With Diode



Part Number	3060		4 PIN	24 VOLT DC
Maximum Load	30A			
Protection	Diode			
Current Draw	90mA			

Normally Open Mini Relay With Diode



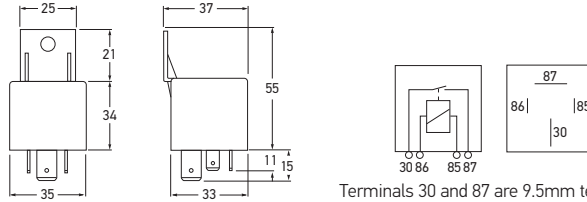
Part Number	3077		4 PIN	12 VOLT DC
Maximum Load	15A with 15A fuse			
Current Draw	80mA			

Normally Open Fused Relay



RELAYS

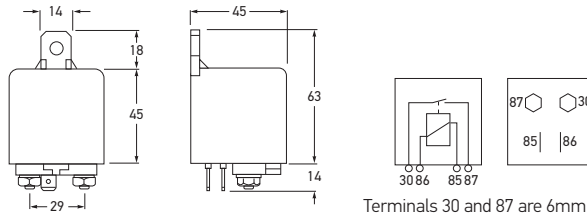
High Capacity Normally Open Relay



Terminals 30 and 87 are 9.5mm terminals

Part Number	3084	4 PIN	12 VOLT DC
Maximum Load	60A		
Current Draw	140mA		

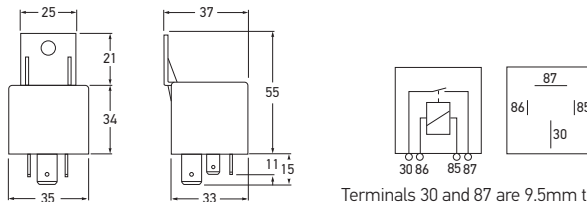
High Capacity Normally Open Relay



Terminals 30 and 87 are 6mm studs

Part Number	3061	4 PIN	12 VOLT DC
Maximum Load	180A peak current (100A continuous)		
Current Draw	380mA		

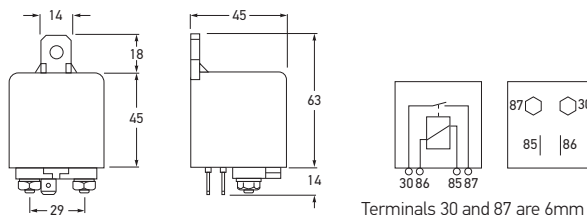
High Capacity Normally Open Relay



Terminals 30 and 87 are 9.5mm terminals

Part Number	3085	4 PIN	24 VOLT DC
Maximum Load	60A		
Current Draw	70mA		

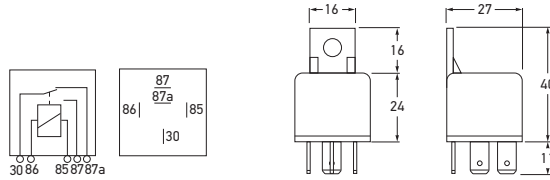
High Capacity Normally Open Relay



Terminals 30 and 87 are 6mm studs

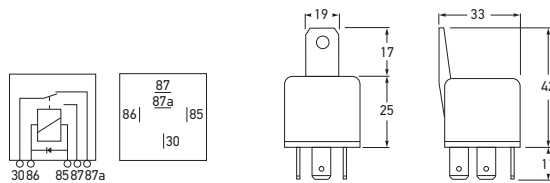
Part Number	3062	4 PIN	24 VOLT DC
Maximum Load	80A peak current (60A continuous)		
Current Draw	180mA		

RELAYS AND FLASHER UNITS



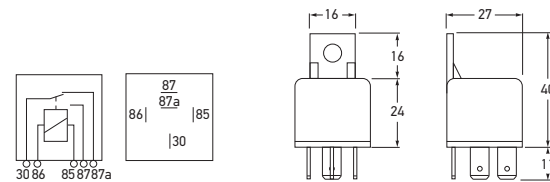
Part Number	3080		5 PIN	12 VOLT DC
Maximum Load	30-87, 30A/30-87a, 20A			
Current Draw	140mA			

Change-over Relay



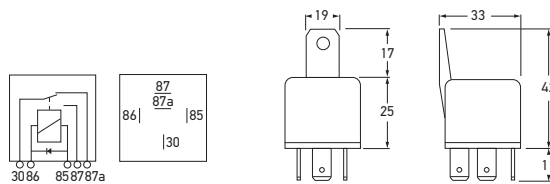
Part Number	3057		5 PIN	12 VOLT DC
Maximum Load	30-87, 40A/30-87a, 15A			
Protection	Diode			
Current Draw	170mA			

Change-over Relay with Diode



Part Number	3081		5 PIN	24 VOLT DC
Maximum Load	30-87, 20A/30-87a, 10A			
Current Draw	70mA			

Change-over Relay



Part Number	3058		5 PIN	24 VOLT DC
Maximum Load	30-87, 22A/30-87a, 10A			
Protection	Diode			
Current Draw	90mA			

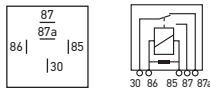
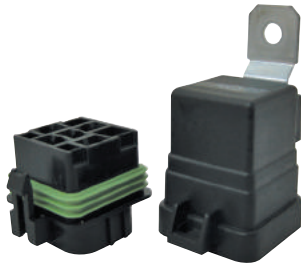
Change-over Relay with Diode



RELAYS

Weather Proof Changeover Relays

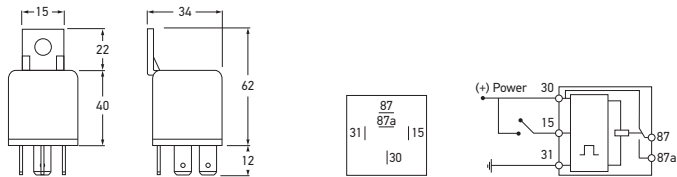
Weather Proof Relay and connector assembly kits



Part Numbers	HMWPR001	12 VOLT DC
	HMWPR002	24 VOLT DC
Voltage	10 - 16V DC	
Operating Range	-40°C to +125°C	
Contact Current Rating	NO 35A / NC 20A	
Coil Resistance	70-90 Ohms @ 23°C	
Transient Suppressor Resistor	680 Ohms	
Kit Contents	12V ISO mini relay and connector assembly kit contains: 1 x ISO-style 12 volt changeover relay. 1 x Connector body with seals for pull to seat terminals. 3 x Large barrel pull to seat terminal 6.3mm width suits cable size 3.00mm ² . 2 x Small barrel pull to seat terminal 6.3mm width suits cable size 1.00 - 2.00mm ² Transient Suppressor Resistor: 680 Ohms.	

Time Control Unit with Drop-out Delay

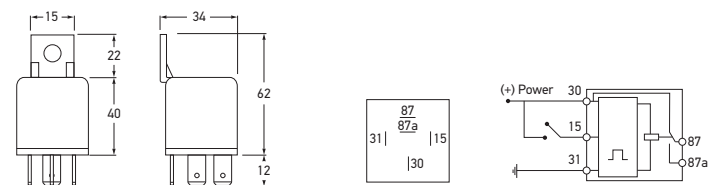
Relay with manually adjustable drop-out delay function, 0 – 900 seconds.



Part Numbers	3086-12V	5 PIN	12 VOLT DC
	3086-24V		24 VOLT DC
Maximum Load	Contact opened 10A Contact closed 20A/30min		
Protection	IP 50 (Protection against dust)		
Switching terminal 15 starts timing.			

Time Control Unit with Pick-up Delay

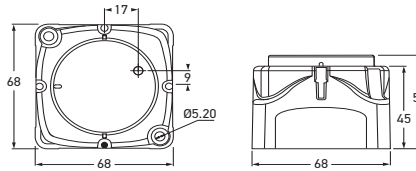
Relay with manually adjustable pick-up delay function, 0 – 900 seconds.



Part Numbers	3087-12V	5 PIN	12 VOLT DC
	3087-24V		24 VOLT DC
Maximum Load	Contact opened 10A Contact closed 20A/30min		
Protection	IP 50 (Protection against dust)		
Switching terminal 15 starts timing.			

RELAYS

RELAYS AND FLASHER UNITS



Part Number	3099	12/24 VOLT DC
Voltage	Multivolt™, suitable for 12 and 24 volt systems.	
Mounting	Recess or surface mount.	
Maximum Continuous Load	140A	
Termination	2 x 6mm studs	

Voltage Sensitive Relay Module

Digital Voltage Sensitive Relay with dual sensing for 12 and 24 volt systems. Suitable for boats, caravans and 4WD vehicles, this relay allows a separate battery to be used independently from another battery permitting, for example, the starting battery not to be discharged. However when either battery is charged, the relay will connect both batteries to allow dual charging. The relay automatically detects either 12 or 24 volt operation. Very low power consumption (less than 2mA) or none in power storage mode.



Part Numbers	4973	PACK OF 50
	4973BULK	
Mounting	Single screw mounting.	
To Suit	4 and 5 pin relays with 6.3mm flat pin connectors.	
P/Ns 3076 and 3077 are not suitable for multiple installation using this connector.		

Mini Relay Connector

Single screw mounting. Sturdy plastic casing. Supplied with 5 blade terminals. Several holders may be joined together or mated with fuse holder P/N 8704.





Technology with Vision



SAFETY DAYLIGHTS™ SMART CONTROLLER



The new smart controller is designed to simplify the installation of HELLA's LED Safety DayLights™ (SDL) range by eliminating the need to wire the lamp, or changeover relay to ignition terminal 15.

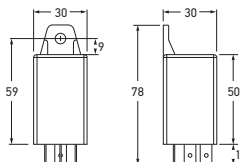
The Safety DayLights™ Smart Controller can be wired directly to the positive terminal of the battery, which saves the difficult and often time consuming task of finding the ignition feed.

The smart controller monitors the voltage supply from the battery and will automatically switch the Safety DayLights™ on when the engine is started, and automatically switch them off when the headlamps are activated, or the engine is turned off.



Advanced and standard versions available.

RELAYS AND FLASHER UNITS



Part Numbers	3090 (Advanced*)	
	3090BULK (Advanced*)	Pack of 20
	3091 (Standard)	
	3091BULK (Standard)	Pack of 20

Voltage Multivolt™, suitable for 12 and 24 volt DC systems.

Maximum Continuous Load 20W

To Suit HELLA LED Safety DayLights™ range.

Features a Safety DayLights™ OFF delay of approximately 10 seconds.

RECOMMENDED INSTALLATION DIAGRAM FOR WIRING

WIRING SPECIFICATIONS

Terminal Number	Connect to
30	Battery (+)
31	Earth return (-)
86	Front position or headlamps (+)
DL1 & DL2	Safety DayLights™ (+)

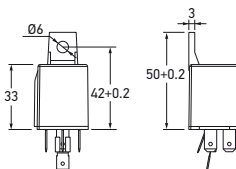
Safety DayLights™ Smart Controller

This Smart Controller is designed to simplify the installation of HELLA's LED Safety DayLights™ range by eliminating the need to wire the lamp, or changeover relay to ignition terminal 15.

The Safety DayLights™ Smart Controller can be wired directly to the positive terminal of the battery, which saves the difficult and often time consuming task of finding the ignition feed.

The Smart Controller monitors the voltage supply from the battery and will automatically switch the Safety DayLights™ on when the engine is started, and automatically switch them off when the headlamps are activated, or the engine is turned off.

*Advanced version with vibration monitor for installation in vehicles with fuel saving alternators.



Part Numbers	9.5630.03	12 VOLT DC
	9.5636.03	
	9.5630.04	24 VOLT DC
	9.5636.04	

To Suit P/N 9.5630.03 P/Ns 1009, 5619, 5630, 5631
 P/N 9.5636.03 P/N 5636
 P/N 9.5630.04 P/Ns 1009-24V, 5619-24V, 5630-24V, 5631-24V
 P/N 9.5636.04 P/N 5636-24V

RECOMMENDED INSTALLATION DIAGRAM FOR WIRING

WIRING SPECIFICATIONS

Terminal Number	Connect to
30	Ignition (+)
85	Earth return (-)
86	Front position or headlamps (+)
87A	Safety DayLights™ (+)

Dual Function Safety DayLights™ Controller

This Controller is designed to turn your HELLA Safety DayLights™ into front position lamps at night. The dual function controller is connected and activated by the headlamp of the vehicle.

The Dual Function Controller reduces the current to the Safety DayLights™ thus turning them into road legal* front position lamps. Only one controller is required for a pair of HELLA Safety DayLights™.

* Please note legally required spacing of front position lamps and only one pair of front position lamps is legally permitted.



RELAYS

HELLA COMPATIBILITY SOLUTION

HELLA HCS lamps, electronic control and flasher units are designed to the latest ISO International Standard to provide compatibility with commercial vehicle indicator failure systems.

Vehicles driven on public roads require the operation of direction indicator lamps to be monitored and a fault instantly signalled to the driver. Direction indicator lamps are an important road safety feature, signalling the direction change of the vehicle. Failure to signal or failure to recognise a direction indicator signal poses a significant risk of causing an accident.

LED direction indicator lamps offer a reliable Fit and Forget solution and have become the choice for cost conscious transport operators. LED lamps with their low power consumption and Multivolt™ features, are often a challenge for existing lamp failure detection systems on modern trucks and buses.

Transport fleets often feature a mix of trailers equipped with globe based lamps as well as trailers with full LED based lighting solutions. For the efficient operation of the fleet, each of these trailers should be compatible with the indicator failure detection systems of any of the trucks in the fleet, both now and in the future.

Some manufacturers recommend fitting additional resistive loads in parallel to the LED lamps, to simulate the 21 watts consumed by a traditional globe lamp.

Such pure resistive load solutions can be problematic for the following reasons:

- They mask the possible failure of the actual LED signal lamp itself.
- In many cases such pure resistive solutions do not function as they provide a linear time/current response which is significantly different to the time/current response of a globe filament when it heats up, as in the initial heat-up period the globes consume significantly more power than the rated 21 Watt.
- Additional parallel resistors consume a significant amount of energy and thus negate the lower power advantage that LED lamps offer.
- LED lamps marked with the HCS symbol feature patented indicator failure control technology which allows seamless communication with HELLA HCS control flasher units, or modern European trucks with body controllers compliant with the ISO 13207-1 standard.

International Organisation for Standardisation

The International Organisation for Standardisation (ISO) is a network of national standards bodies working together to develop International Standards. Currently ISO has members from 162 countries and 3,368 technical bodies working to a common goal of making international trade and industry more effective and efficient. The standards operate by global consensus, with many governments adopting the standards into their legislation.





“HELLA Australia has been instrumental in the development of the HELLA Compatibility System (HCS)”

ISO 13207-1 Standard

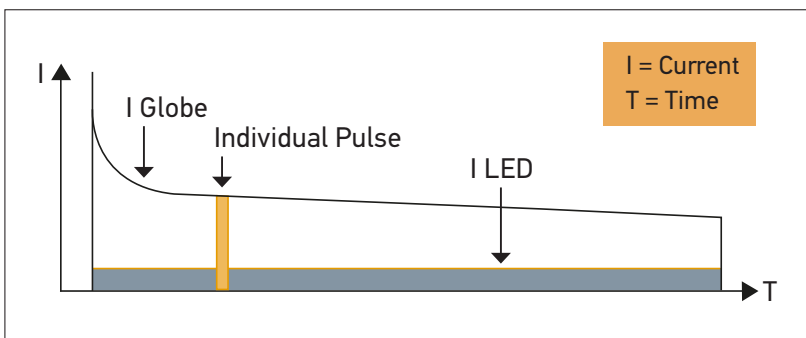
ISO 13207-1 specifies a precisely timed pulse for a low power LED lamp, which momentarily mimics the power consumption of a conventional incandescent globe. This pulse is suppressed when the LED direction indicator diagnoses itself as faulty. An ISO 13207-1 compatible flasher or vehicle body controller interprets the pulse suppression and alerts the driver to a faulty lamp or faulty wiring.

Body Control Modules or HCS flasher units together with LED lamps designed to ISO 13207-1 maintain the benefit of low power LED lamps, as opposed to a parallel resistor which increases the power consumption to that of a 21 watt globe.

HELLA Australia has been instrumental in laying the groundwork for the development of the HELLA Compatibility System (HCS), which became the blueprint for the new ISO 13207-1 standard. HELLA HCS lamps are fully compliant with ISO 13207-1.

ISO 13207-1 has been agreed to by European truck manufacturers and will be incorporated into the vehicle monitoring electronics of European trucks. Astute transport fleet operators are already future-proofing their trailers by specifying HELLA HCS Fit and Forget LED lighting solutions which will be plug-and-play with the 24 volt European trucks of tomorrow.

HELLA lamps which incorporate HCS readily comply with ISO 13207-1.



The HCS innovation generates a pulse that simulates the current draw equivalent to an incandescent globe.

HELLA HCS Lamps



HELLA products throughout this catalogue displaying the HCS logo incorporate HELLA Compatibility Solutions technology.



P/N 2391



P/N 2133-CS



P/N 2378-CS



P/N 2431-CS



P/N 2151-HCS

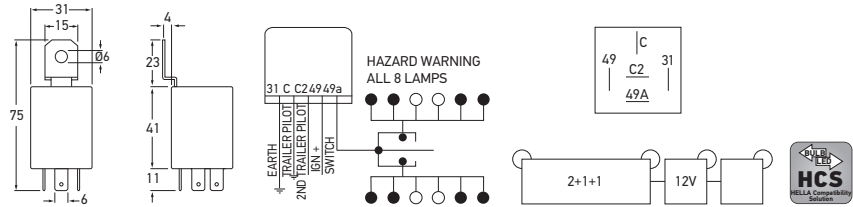


P/N 2146-HCS

A selection of HCS products.

HCS Electronic Flasher Unit - 2+1+1

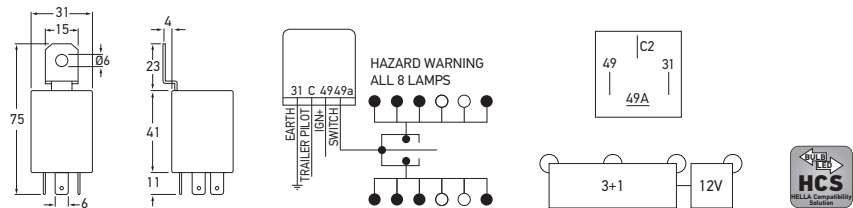
LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.



Part Number	3036	12 VOLT DC
Maximum Load	2+1+1(8) x 21W + 0-5W	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	
See page 319 for further information on HCS Technology		

HCS Electronic Flasher Unit - 3+1

LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.

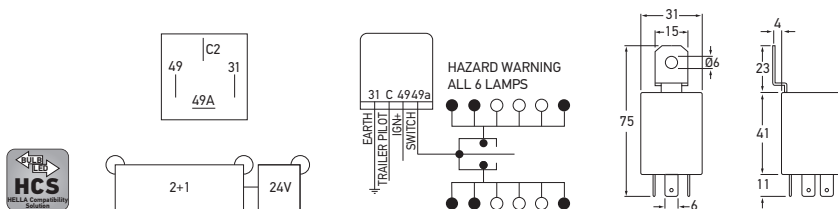


Part Number	3039	12 VOLT DC
Maximum Load	3+1 (8) x HCS or 21W	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	
See page 319 for further information on HCS Technology		

FLASHER UNITS

COMMON PIN DESIGNATIONS FOR FLASHER UNITS	
Terminal Number	Description
49/X	Flasher input (+)
49a/L	Flasher output (+) to lamps or indicator switch
30b	Flasher input (+) from hazard switch
31	Earth (-)
C/C1/CP/P	Pilot lamp output (+)
C2	1st trailer pilot lamp output (+)
C3	2nd trailer pilot lamp output (+)

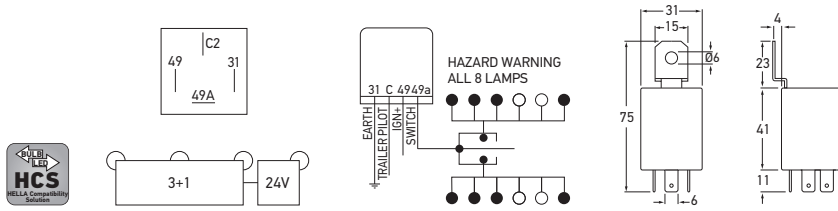
RELAYS AND FLASHER UNITS



Part Number	3037	24 VOLT DC
Maximum Load	2+1 (6) x HCS or 21W + 0-5W	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	
See page 319 for further information on HCS Technology		

HCS Electronic Flasher Unit - 2+1

LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.



Part Number	3038	24 VOLT DC
Maximum Load	3+1 (8) x HCS or 21W	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	
See page 319 for further information on HCS Technology		

HCS Electronic Flasher Unit - 3+1

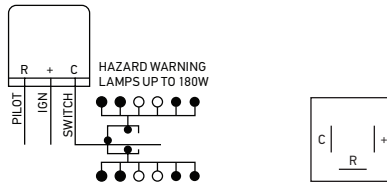
LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.



FLASHER UNITS

High Capacity Flasher Unit

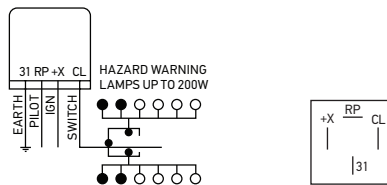
Heavy-Duty Flasher Unit manufactured to take up to 180W loads. Suits emergency flasher lamp Part No. 1692, 1694 and 1696.



Part Number	3014	3 PIN	12 VOLT DC
Maximum Load	180W		

High Capacity Flasher Unit

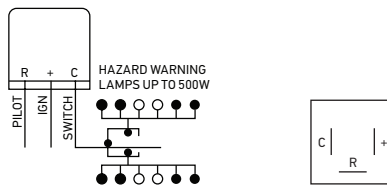
4-Pin Heavy-Duty Electronic Flasher Unit designed to take up to 200W loads.



Part Number	3014HD	4 PIN	12 VOLT DC
Maximum Load	10-200W		
Note	Not suitable for extended periods of continuous use at maximum load. Maximum pilot lamp load 3W.		

High Capacity Flasher Unit

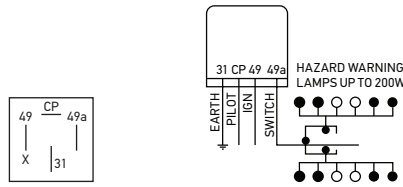
Heavy-Duty Flasher Unit manufactured to take up to 500W loads. Suits emergency flasher lamp Part No. 1692, 1694 and 1696.



Part Number	3015	3 PIN	24 VOLT DC
Maximum Load	500W 100W continuous		
Note	Not suitable for extended periods of continuous use at maximum load. For pilot (warning) signal output from terminal "R" a minimum load of $2 \times 21W + 5W = 47W$ must be applied. With less than 47W load the pilot (warning) signal output from terminal "R" will not operate to indicate globe failure to the driver. Maximum pilot lamp load 3W.		

FLASHER UNITS

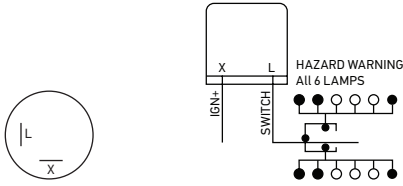
RELAYS AND FLASHER UNITS



High Capacity Flasher Unit

4-Pin Heavy-Duty Electronic Flasher Unit designed to take up to 200W loads.

Part Number	3015HD	4 PIN	24 VOLT DC
Maximum Load	3W 100W continuous		
Note	Not suitable for extended periods of continuous use at maximum load. Maximum pilot lamp load 3W.		



High Capacity Flasher Unit

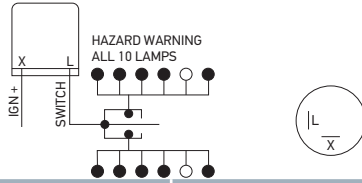
2-Pin High-Capacity Flasher. Max. 6 lamps. Suitable for hazard warning applications.

Part Number	3008	2 PIN	12 VOLT DC
Maximum Load	6 x 24W (32 cp)		



High Capacity Flasher Unit

High Capacity Electronic Flasher Unit. Complete with bracket. Designed to take up to 210W loads. Reverse polarity protection, polycarbonate cover and silver contacts. Clear audible signal.



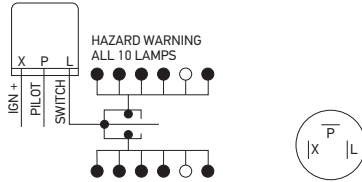
Part Number	3026	➔	2 PIN	12 VOLT DC
Maximum Load	1-10 x 21W			

High Capacity Flasher Unit

High Capacity Electronic Flasher Unit. Complete with bracket. Designed to take up to 210W loads. Reverse polarity protection, polycarbonate cover and silver contacts. Clear audible signal.



P/N 3027



Part Numbers	3027	➔	3 PIN	12 VOLT DC
	3028	➔		24 VOLT DC
Maximum Load	1-10 x 21W			

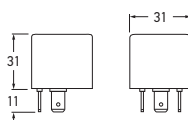
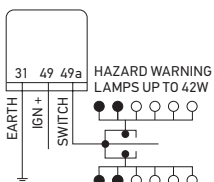
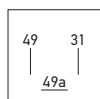
Universal Mounting Bracket

For mounting 32mm diameter HELLA Flasher Unit P/Ns 3026, 3027, 3028.



Part Number	8003
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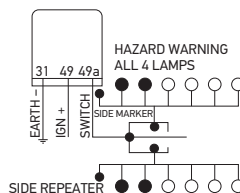
RELAYS AND FLASHER UNITS



Part Number	3040	3 PIN
Voltage	9-33V DC (suitable for 12V DC and 24V DC)	
Maximum Load	42W max.	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	

Electronic Flasher Unit

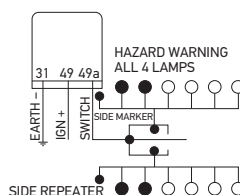
LED Compatible Flasher Unit for universal connection of LED indicator lamps without electronic pulse. Maintains the standard flash rate of 90 +/- 30 fpm and operates on globe and LED loads from 1W to 42W.



Part Number	3016	3 PIN	12 VOLT DC
Maximum Load	2(4) x 21W + 0 - 5W		

Electronic Flasher Unit

To operate 2 or 3 lamps on either side of vehicle. Incorporates hazard warning flasher system when used in conjunction with HELLA switch P/N 5227.



Part Numbers	3016LED1	3 PIN	12 VOLT DC
	3016LED2		
Maximum Load	Front direction indicator lamp	1(2) x 21W	
	Supplementary side direction indicator lamp	1(2) x 5W (P/N 3016LED2 only)	
	DuraLED® direction indicator lamp	1(2) x 9W	

LED Electronic Flasher Unit

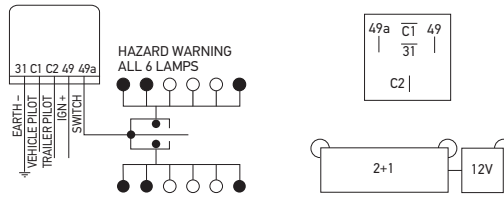
Modified version of P/N 3016 Electronic Flasher Unit. Specifically designed for use with DuraLED® rear direction indicator lamps on motor vehicles such as prime movers, trucks and motor homes, maintaining the mandatory globe failure warning signal function.



FLASHER UNITS

Electronic Flasher Unit - 2+1

Flasher Unit designed to operate 2 or 3 lamps on either side of a vehicle with caravan or trailer. Includes mounting bracket. Separate pilot lamp indicates operation of flasher lamp on the trailer. Incorporates hazard warning flasher system when used in conjunction with HELLA switch P/N 5227.

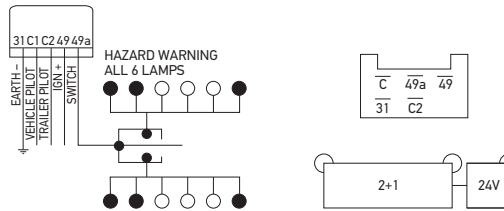


Part Number	3017	5 PIN	12 VOLT DC
Maximum Load	2+1 (6) x 21W		



Electronic Flasher Unit - 2+1

Flasher Unit designed to operate 2 or 3 lamps on either side of a vehicle with caravan or trailer. Includes mounting bracket. Separate pilot lamp indicates operation of flasher lamp on the trailer. Incorporates hazard warning flasher system when used in conjunction with HELLA switch P/N 5227.

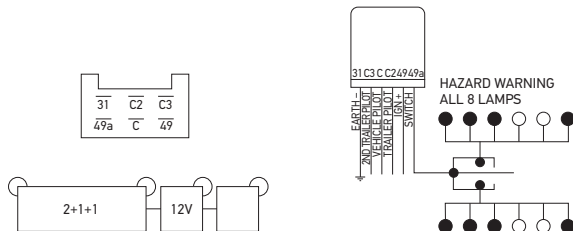


Part Number	3018	5 PIN	24 VOLT DC
Maximum Load	2+1 (6) x 21W		



FLASHER UNITS

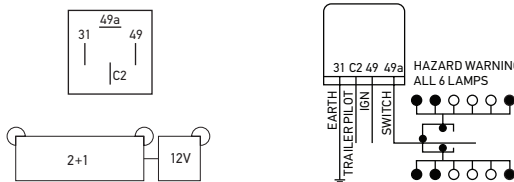
RELAYS AND FLASHER UNITS



Part Number	3033	6 PIN	12 VOLT DC
Maximum Load	2+1+1 (8) x 21W		

Electronic Flasher Unit - 2+1+1

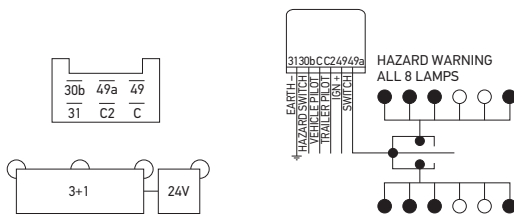
To operate 2 lamps on either side of a towing vehicle plus an additional lamp on either side of each of two trailers. Separate pilot lamps indicate operation of flasher lamps on the trailers.



Part Number	3035	4 PIN	12 VOLT DC
Maximum Load	2 + 1(6) x 21W + 0-5W		

Caravan/Trailer Conversion Flasher Unit

Designed to enable operation of 2 or 3 lamps simultaneously. Incorporates a specially designed mechanism which automatically compensates as the wattage load is varied.



Part Number	3032	6 PIN	24 VOLT DC
Maximum Load	3+1 (8) x 21W		

Electronic Flasher Unit - 3+1

For heavy trucks with trailers. With mounting bracket. To operate 3 lamps on either side of towing vehicle, plus an additional lamp on either side of a trailer. Separate pilot lamp indicates operation of flasher lamp on the trailer. Incorporates hazard warning flasher system when used in conjunction with HELLA switch P/N 5227.



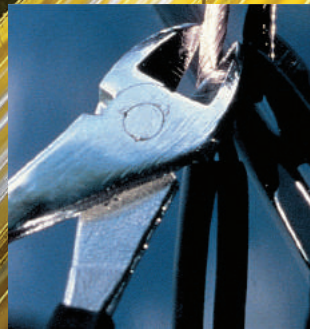
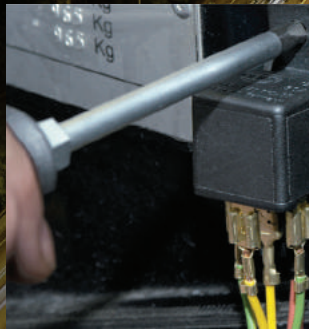
FLASHER UNITS

Accessories

Create New Possibilities

Selected for precision and compatibility.

Components for visibly improved performance.



Customisation provided by quality accessories makes new applications possible. Confidently do more than before.



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Accessories

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HELLA ACCESSORIES

LATEST TECHNOLOGY, EXTENSIVELY TESTED

HELLA's range of accessories perfectly complements its range of lighting products. HELLA accessories offer the latest in design, technology and features. All HELLA accessory products are extensively tested for quality, durability and function prior to being offered under the HELLA name.

▽ HCS – Patented LED Direction Indicator Failure Check

HELLA's patented HCS design is a revolutionary technology offering seamless compatibility of lamp failure indication in vehicles equipped with conventional globe type lamps and HELLA HCS LED direction indicators.

HELLA now offers LED compatible flasher units for standard industry configurations, which make it possible to convert the indicator failure display for various vehicles. This is necessary if the vehicle manufacturer does not guarantee indicator globe failure control via the vehicle wiring system. The flasher unit recognises either a standard globe type lamp or HELLA HCS LED lamp or a mixture thereof.

MagCode® Power Outlet Systems

MagCode® power systems are revolutionary power outlet systems for 12 and 24V DC circuits. Unlike conventional connectors, MagCode® power systems utilise magnetically coded flat contacts, delivering safe power across modular components far superior to the ubiquitous cigarette lighter sockets.

Both port (outlet) and clip (connector) feature powerful magnets with integral switching function ensuring a stable connection and safe power supply. Other metal objects or permanent magnets cannot energise the contacts at any time, making the outlet completely safe and 100% short-circuit-proof.

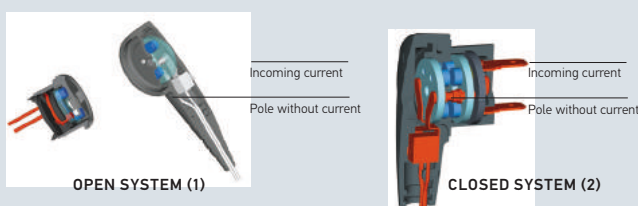
The advanced Power System Plus for higher power circuits features an additional mechanical twist lock offering even greater security (higher separation forces) and reliable prevention of arcing.

A protective cap is available for power ports to provide maximum environmental protection when mounted externally.

MagCode® Features:

- Latest high-tech design
- Stable connection
- 100% short-circuit-proof
- Easy to install
- Minimal mounting depth (port)
- Up to 25A current load
- Dust and water resistant
- Easy to clean
- Novel coded system to avoid inadvertent connection of 12V and 24V products

The advanced MagCode® power outlet system utilises a unique magnetic connection that delivers stable and safe power.



COLOUR CODE: ● Permanent Magnets ● Plate With Permanent Magnets ● Voltageless ● Under Current

Safety Triangles - Double Sided

Part Number	2900
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Double-sided Triangular Warning Device. Designed to withstand winds of 48 kph. Complete with protective carrying case that acts as base during use. Complies with Australian standard AS 3790B.



Safety Triangle Kit (Set of 3)

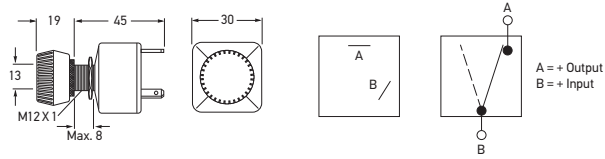
Part Number	2929
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The Emergency Safety Triangle Kit includes 3 units for use in cars, trucks and four wheel drives. Features include quick assembly, weighted base and double-sided reflective panels. Dimensions are in accordance with Australian standard AS3790-1992.



Rotary Switch - Off-On

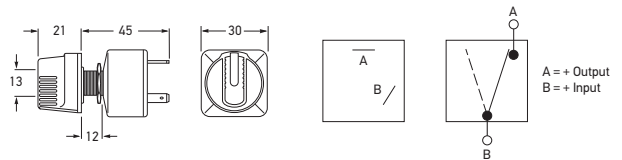
Rotary Switch with round knob.



Part Number	4020	OFF-ON
Mounting	12.5mm diameter opening.	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	

Rotary Switch - Off-On

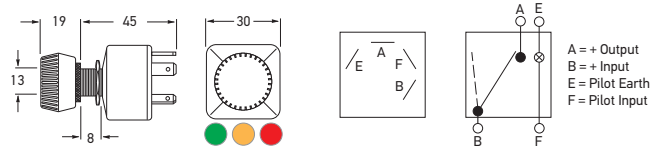
Rotary Switch with flat knob.



Part Number	4021	OFF-ON
Mounting	12.5mm diameter opening.	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	

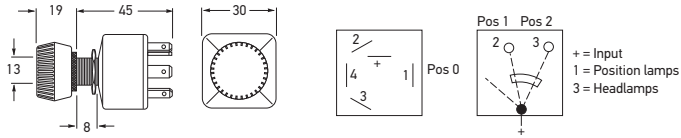
Illuminated Rotary Switch, Off-On - 12 Volt

Illuminated by inbuilt 12V capillary Globe, complete with red, amber and green lenses.



Part Number	4022	OFF-ON
Mounting	12.5mm diameter opening.	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	
Suitable for 12V only. Globe not replaceable.		

ACCESSORIES



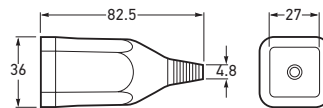
Rotary Headlamp Switch
- Off-On-On

Rotary Switch with round knob.

Part Number	4023	OFF-ON-ON
Mounting	12.5mm diameter opening.	
Maximum Load	23A @ 12V DC 11.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	



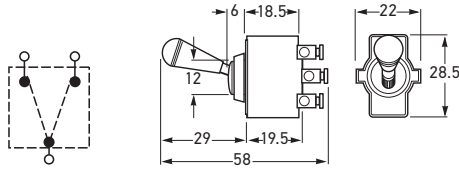
Rubber Sealing Boot



Part Number	4024	OFF-ON
To Suit	Parts No.s 4020-4023.	

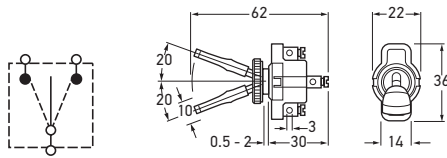


On-on Changeover Switch



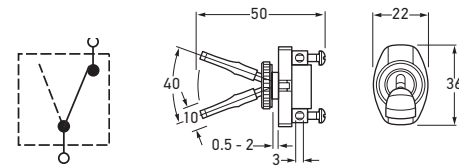
Part Number	4150	ON-ON
Mounting	13mm diameter opening.	
For Panels	Up to 2mm thick.	
Maximum Load	8A @ 12V DC 4A @ 24V DC	

Toggle Switch - On-Off-On



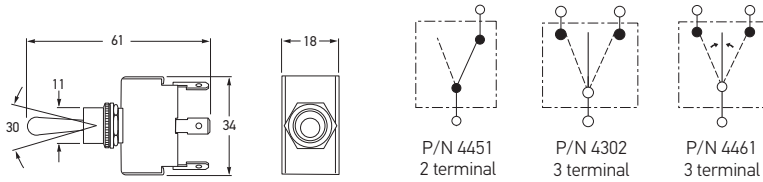
Part Number	4300	ON-OFF-ON
Mounting	13mm diameter opening.	
For Panels	Up to 2mm thick.	
Maximum Load	8A @ 12V DC 4A @ 24V DC	

Off-On Switch



Part Number	4450	OFF-ON
Mounting	13mm diameter opening.	
For Panels	Up to 2mm thick.	
Maximum Load	10A @ 12V DC 5A @ 24V DC	

ACCESSORIES

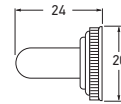


Metal Shaft Toggle Switch



P/N 4451

Part Numbers	4451		OFF-ON
	4302		ON-OFF-ON
	4461 (Momentary spring return)		(ON)-OFF-(ON)
Mounting	12mm diameter opening.		
For Panels	Up to 5mm thick.		
Maximum Load	20A @ 12V DC 10A @ 24V DC		

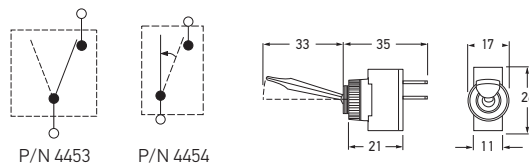


Toggle Boot

To be used with toggle switches.



Part Number	4452	
To Suit	Toggle switch P/Ns 4302, 4451 and 4461.	



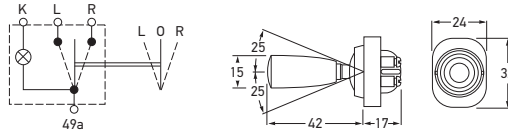
Plastic Toggle Switch



Part Numbers	4453		OFF-ON
	4454 (Momentary spring return)		OFF-(ON)
Mounting	13mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	8A @ 12V DC		

Illuminated Toggle Switch, On-Off-On

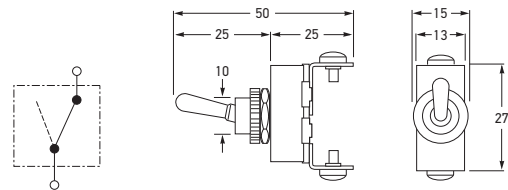
Three position latching switch for indicators. Illuminates green.



Part Number	4206	ON-OFF-ON
Mounting	19mm diameter opening.	
For Panels	Up to 2mm thick.	
Maximum Load	6A @ 12V DC	
Globe to Suit	12V 292	

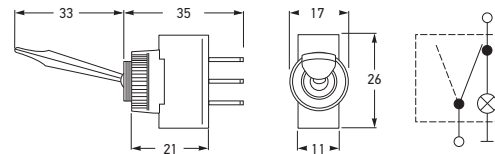
Brass Toggle Switch - Off-On

Chrome toggle and face nut. Brass construction.

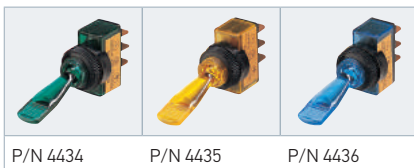


Part Number	2762	OFF-ON
Mounting	11mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	20A @ 12V DC 10A @ 24V DC	
Toggle boot P/N 4452 does not fit this switch.		

Illuminated Toggle Switch, Off-On - 12 Volt



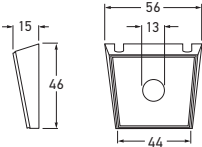
Part Numbers	4433	RED
	4434	GREEN
	4435	AMBER
	4436	BLUE
Mounting	12.5mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	10A @ 12V DC	
Suitable for 12V only. Globe not replaceable.		



ACCESSORIES

Switch Mounting Panel

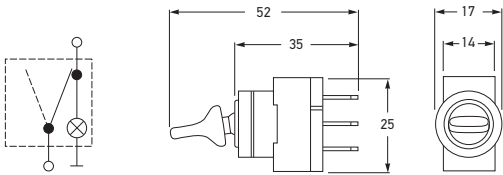
Single Switch Mounting Panel. Plastic moulded with black grain finish.



Part Number	4437	SINGLE
Mounting	12.5mm diameter opening.	



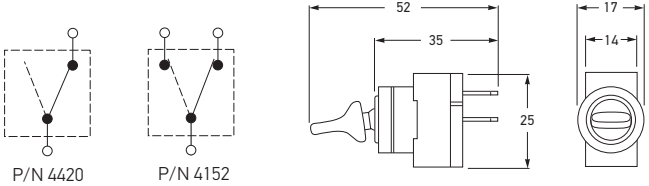
Illuminated Duckbill Switch, Off-On - 12 Volt



Part Numbers	4421	RED
	4422	GREEN
	4423	BLUE
	4424	AMBER
Mounting	12.5mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	10A @ 12V DC	
Suitable for 12V only. Globe not replaceable.		



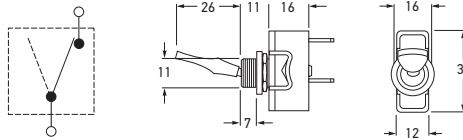
Duckbill Switch



Part Numbers	4420	OFF-ON
	4152	ON-ON
Mounting	12.5mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	10A @ 12V DC 5A @ 24V DC	



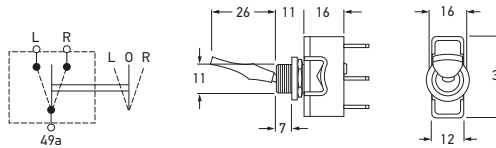
Toggle Switch - Off-On



Part Number	4456	OFF-ON
Mounting	13mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	

Toggle Switch - On-Off-On

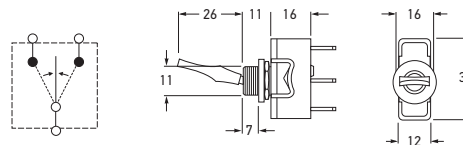
Toggle switch, suitable for controlling direction indicator lamps.



Part Number	4202	ON-OFF-ON
Mounting	13mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	

Momentary Spring Return Switch - (On)-Off-(On)

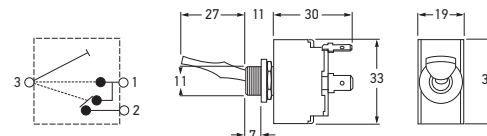
Momentary on-off-on, spring return aerial switch. Flick toggle with spring return to centre.



Part Number	4460	(ON)-OFF-(ON)
Mounting	13mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	

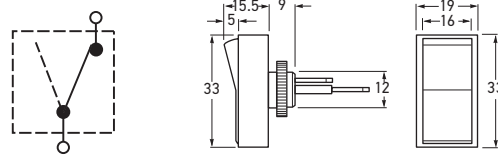
Headlamp Switch - Off-On-On

Three position switch:
Upper = Off
Centre = Position lamps
Lower = Headlamps and position lamps



Part Number	4056	OFF-ON-ON
Mounting	13mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	20A @ 12V DC 10A @ 24V DC	

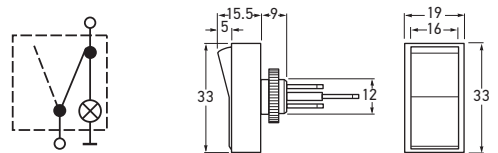
Rocker Switch - Off-On



Part Number	4439		OFF-ON
Mounting	12mm diameter opening.		
For Panels	Up to 12mm thick.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		



Rocker Switch - Off-On



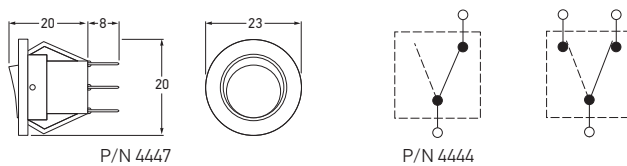
Push-on terminals.

Part Numbers	4440		RED
	4441		GREEN
	4442		AMBER
	4443		BLUE
Mounting	12.5mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	10A @ 12V DC		
Suitable for 12V only. Globe not replaceable.			



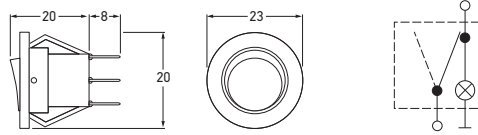
Rocker Switch

Panel push fit.



Part Numbers	4444		OFF-ON
	4447		ON-ON
Mounting	20mm diameter opening.		
For Panels	Up to 4mm thick.		
Maximum Load	10A @ 12V DC		





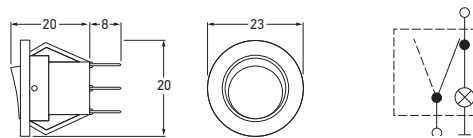
Illuminated Rocker Switch, Off-On - 12 Volt

Panel push fit.



P/N 4446

Part Numbers	4445	■ AMBER
	4446	■ RED
Mounting	20mm diameter opening.	
For Panels	Up to 4mm thick.	
Maximum Load	10A @ 12V DC	
Suitable for 12V only. Globe not replaceable.		

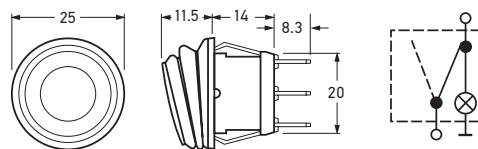


LED Rocker Switch, Off-On - 12 Volt DC

Panel push fit.



Part Number	4448	■ RED
Mounting	20mm diameter opening.	
For Panels	Up to 4mm thick.	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC only. LED included, not replaceable.		



Illuminated Compact LED Rocker Switch, Off - On

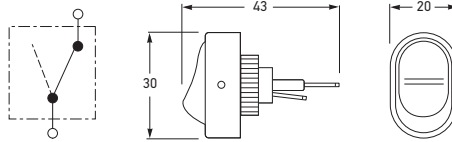
Compact, heavy-duty LED illuminated Rocker Switches featuring durable nylon frame and waterproof rubber sealing boot for additional protection in industrial environments. Push-on terminals.




Part Numbers	HM4400A	■	24V DC	■ AMBER
	HM4400-12V	■	12V DC	■ AMBER
	HM4400B	■	24V DC	■ BLUE
	HM4400B-12V	■	12V DC	■ BLUE
	HM4400G	■	24V DC	■ GREEN
	HM4400G-12V	■	12V DC	■ GREEN
	HM4400R	■	24V DC	■ RED
	HM4400R-12V	■	12V DC	■ RED

Voltage	12V DC (non-replaceable LED included) 24V DC (non-replaceable LED included)	
Mounting	20mm diameter opening.	
For Panels	Up to 2.5mm thick.	
Maximum Load	20A @ 12V DC 10A @ 24V DC	
Suitable for 12V only. LED included, not replaceable.		

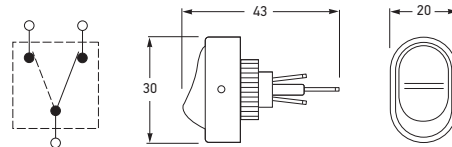
Rocker Switch - Off-On




Part Number	4470		OFF-ON
Mounting	12mm diameter opening.		
For Panels	Up to 5mm thick.		
Maximum Load	10A @ 12V DC		



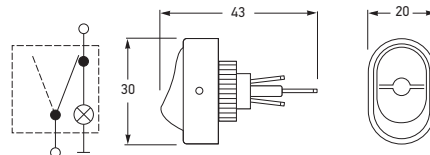
Rocker Switch - On-On











Part Number	4475		ON-ON
Mounting	12mm diameter opening.		
For Panels	Up to 5mm thick.		
Maximum Load	10A @ 12V DC		



Illuminated Rocker Switch, Off-On - 12 Volt



Part Numbers	4471		 AMBER
	4472		 BLUE
	4473		 GREEN
	4474		 RED
Mounting	12mm diameter opening.		
For Panels	Up to 5mm thick.		
Maximum Load	10A @ 12V DC		
Suitable for 12V only. Globe not replaceable.			

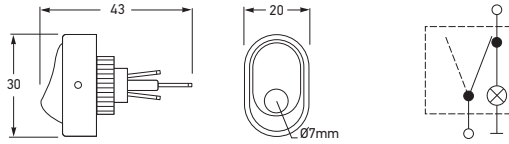


P/N 4472

P/N 4473

P/N 4474

Illuminated Rocker Switch, Off-On - 12 Volt



Part Numbers	4476		AMBER
	4477		GREEN
	4478		RED

Mounting 12mm diameter opening.

For Panels Up to 5mm thick.

Maximum Load 10A @ 12V DC

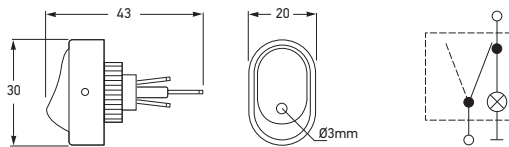
Suitable for 12V only. Globe not replaceable.



P/N 4477

P/N 4478

LED Rocker Switch, Off-On - 12 Volt DC



Part Numbers	4479		AMBER
	4480		GREEN
	4481		RED

Mounting 12mm diameter opening.

For Panels Up to 5mm thick.

Maximum Load 10A @ 12V DC

Suitable for 12V DC only. LED included, not replaceable.

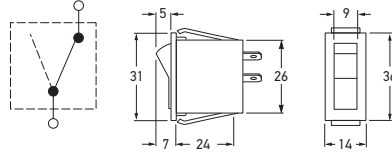


P/N 4480

P/N 4481

Rocker Switch - Off-On

Panel push fit.

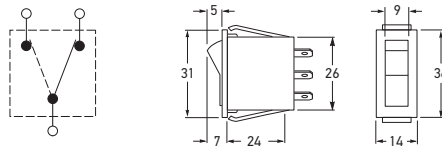



Part Number	4426		OFF-ON
Mounting	29 x 12mm opening.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		



Rocker Switch - On-On

Panel push fit.

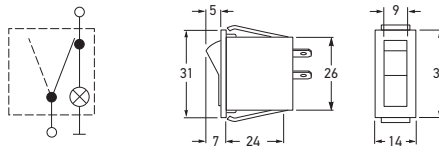






Part Number	4151		ON-ON
Mounting	29 x 12mm opening.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		



Illuminated Rocker Switch, Off-On - 12 Volt

Panel push fit.

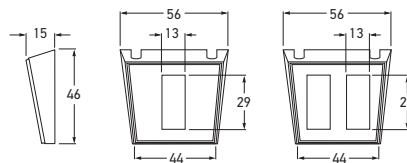




Part Numbers	4427		RED
	4428		GREEN
	4429		BLUE
	4430		AMBER
Mounting	29 x 12mm opening.		
Maximum Load	10A @ 12V DC		
Suitable for 12V only. Globe not replaceable.			



Rocker Switch Mounting Panel

Plastic moulded with black grain finish.

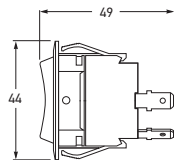


Part Numbers	4431		SINGLE
	4432		DOUBLE
To Suit	Rocker switch P/Ns 4426, 4427, 4428, 4429, 4430 and 4151.		

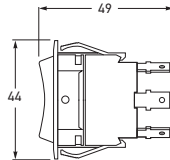


Heavy Duty Rocker Switch

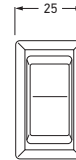
Extremely robust Rocker Switch featuring push-on terminals and weather resistant black plastic housing. Panel push fit.



P/N 4482



P/N 4483 and 4484

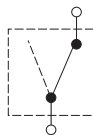


Part Numbers	4482		OFF-ON
	4483		ON-OFF-ON
	4484 (Momentary spring return)		(ON)-OFF-(ON)

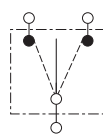
Mounting 20 x 36mm opening.

For Panels Up to 4mm thick.

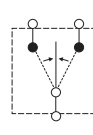
Maximum Load 25A @ 12V DC
12.5A @ 24V DC



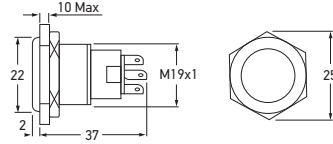
P/N 4482



P/N 4483



P/N 4484



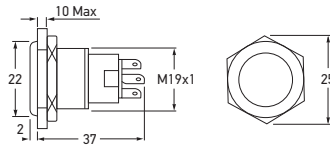
Part Numbers	12 VOLT DC	24 VOLT DC	
	8HG 958 455-001	8HG 958 455-101	RED
8HG 958 455-011	8HG 958 455-111	BLUE	
Mounting	19mm diameter opening.		
Maximum Load	5A		
Protection	IP 67 (Protection against dust and temporary water immersion)		
For Panels	Up to 10mm thick.		

Stainless Steel Latching Switch with LED Ring - Off-On

Exterior durable, 304 Stainless Steel Switches featuring a ring of LED light. These through panel mount switches are ideal for switching lighting or installing into custom switch panels. The light rings may be wired to show power to a system or signal circuit activation.



P/N 8HG 958 455-011



Part Numbers	12 VOLT DC	24 VOLT DC	
	8HG 958 455-201	8HG 958 455-301	RED
8HG 958 455-211	8HG 958 455-311	BLUE	
Mounting	19mm diameter opening.		
Maximum Load	5A		
Protection	IP 67 (Protection against dust and temporary water immersion)		
For Panels	Up to 10mm thick.		

Stainless Steel Momentary Switch with LED Ring - Off-(On)

Exterior durable, 304 Stainless Steel Switches featuring a ring of LED light. These through panel mount switches are ideal for switching lighting or installing into custom switch panels. The light rings may be wired to show power to a system or signal circuit activation.



P/N 8HG 958 455-211

Part Numbers	12 VOLT DC	24 VOLT DC	
	8HG 958 456-001	8HG 958 456-101	RED
Mounting	19mm diameter opening.		
Sound Level	>80dB (1m)		
Protection	IP 50 (Protection against dust)		
For Panels	Up to 10mm thick.		

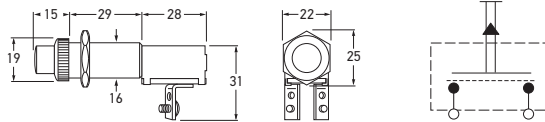
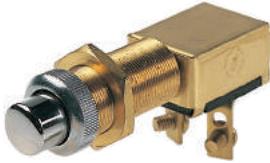
Stainless Steel Buzzer with LED Ring

Exterior durable, 304 Stainless Steel Warning Buzzer to match stainless steel switches (above). Also feature a ring of LED light.



Momentary Spring Return Push Button Starter Switch - Off-(On)

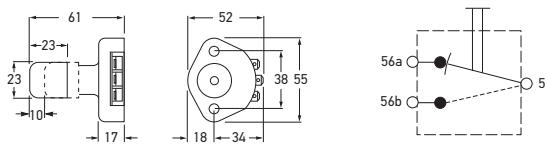
Brass construction. Chrome plated face nut and button. Off-momentary on push button (spring return).



Part Number	2763	OFF-(ON)
Mounting	16mm diameter opening.	
For Panels	Up to 25mm thick.	
Maximum Load	20A @ 12V DC 10A @ 24V DC	

Foot Operated Dipper Switch

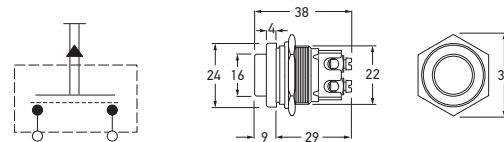
Push on terminals. Latching spring return mechanism.



Part Number	4100	ON-ON
Mounting	Surface mount.	
Maximum Load	12A @ 12V DC 6A @ 24V DC	

Momentary Spring Return Push Button Switch - Off-(On)

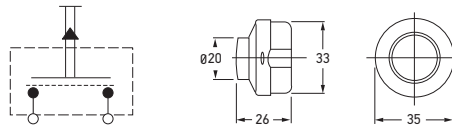
Off-momentary on push button (spring return) switch.



Part Number	4501	OFF-(ON)
Mounting	22.5mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	16A @ 12V DC 8A @ 24V DC	

Momentary Spring Return Push Button Switch -Off-(On)

Chrome body. Off-momentary on push button (spring return) switch.

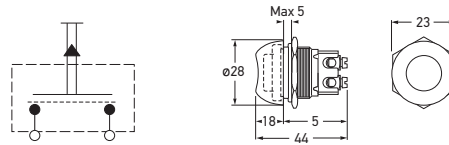


Part Number	4502	OFF-(ON)
Mounting	Surface mount.	
Maximum Load	10A @ 12V DC 5A @ 24V DC	



Momentary Spring Return Push Button Switch - Off-(On)

Water resistant push button type switch with rubber cap. Off-momentary on push button (spring return).

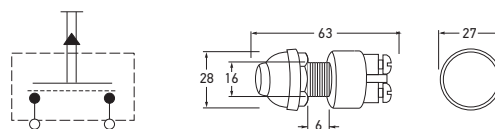


Part Number	4503	OFF-(ON)
Mounting	22.5mm diameter opening.	
For Panels	Up to 2mm thick.	
Maximum Load	16A @ 12V DC 8A @ 24V DC	
Do not remove rubber cap/front face nut when fitting.		



Momentary Spring Return Push Button Switch - Off-(On)

Water resistant starter switch. Off-momentary on push button (spring return).

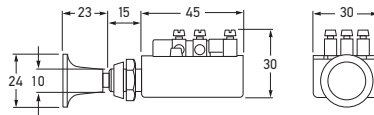
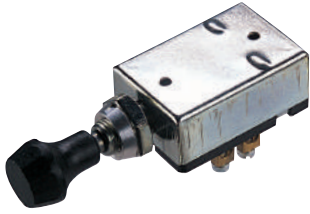


Part Number	4506	OFF-(ON)
Mounting	16mm diameter opening.	
For Panels	Up to 10mm thick.	
Maximum Load	60A @ 12V DC 40A @ 24V DC	



Headlamp Switch - Off-On - On

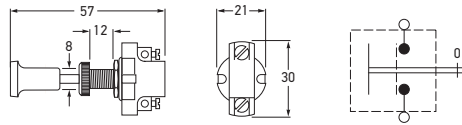
Three position headlamp switch without pilot lamp. Features black grip and 20 amp glass fuse.



Part Number	4055		OFF-ON-ON
Mounting	11mm diameter opening.		
For Panels	Up to 10mm thick.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		

Long Reach Switch - Off-On

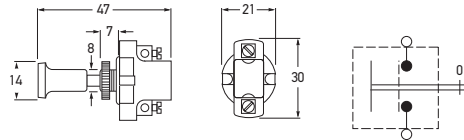
Two position long reach switch.



Part Number	4400		OFF-ON
Mounting	9mm diameter opening.		
For Panels	Up to 12mm thick.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		

Short Reach Switch - Off-On

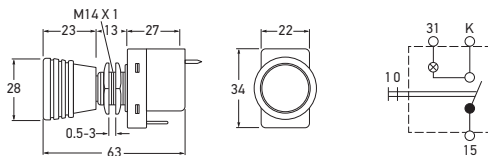
Two position short reach switch.



Part Number	4403		OFF-ON
Mounting	9mm diameter opening.		
For Panels	Up to 2mm thick.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		

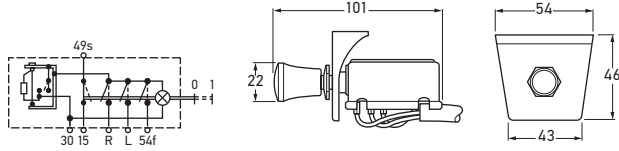
Illuminated Switch - Off-On

Knob incorporates red or green pilot lamp.



Part Numbers	4411		GREEN
	4412		RED
Mounting	14mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		
Globes to Suit	12V DC 24V DC	W121.2 W241.2	

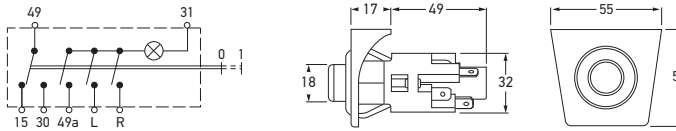
ACCESSORIES



Part Numbers	5225	12V DC
	5226	24V DC
Mounting	12mm diameter opening.	
Voltage	12V DC (Globe included) 24V DC (Globe included)	
For Panels	Up to 7mm thick.	
Globes to Suit	12V DC	W121.2
	24VDC	W243
Note	Not suitable for extended periods of continuous use	

Hazard Warning Switch

Operates all the flasher lamps of a 12V DC vehicle (and trailer) simultaneously. Red knob with pilot lamp. Complete with cables, terminals and wiring instructions for easy installation.



Part Number	5227	OFF-ON
Mounting	29mm diameter opening.	
Maximum Load	7A @12VDC	
For Panels	Up to 3mm thick.	
Globes to Suit	12V DC	J122
	24V DC	J243

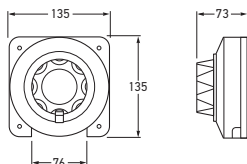
Hazard Warning Switch

For cars, trucks, buses with and without trailers. Black plastic mounting panel. Red knob with pilot lamp. Includes 8 pole multiple adaptor. Push-on 6mm terminals supplied. Wiring diagram and instructions are included.



Heavy Battery Master Switch

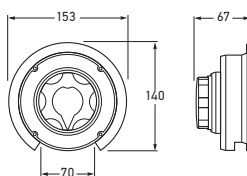
Enables switching between battery 1 and 2 or linking up of both batteries for extra power. May also be used as a manual isolator for charging batteries.



Part Number	2754	OFF-1-2-BOTH
Maximum Load	175A @12V DC Continuous 87.5A @ 24V DC Continuous	
Function	4-position switch (off-1-2-both)	

Dual Battery Master Switch - Weatherproof

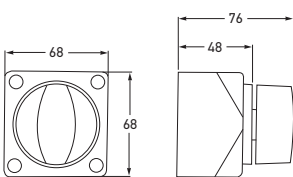
For 6-36V DC battery systems with alternators or generators. Water and vapour resistant.



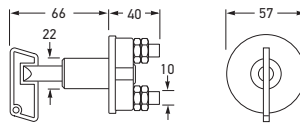
Part Number	2767	OFF-1-2-BOTH
Mounting	Surface mount. or 84mm diameter opening	
Maximum Load	500A at 12V DC for 10 seconds 250A at 24V DC for 10 seconds 310A at 12V DC continuous 155A at 24V DC continuous	
Function	4-position switch (off-1-2-both)	
For Panels	Up to 25mm thick.	

Battery Master Switch

Suitable for cars and medium sized trucks. Complete with removable key.



Part Number	4640	OFF-ON
Mounting	Recess or surface mount.	
Maximum Load	12/24V DC	1250A for up to 10 seconds
Maximum Continuous Load	12/24V DC	275A
Termination	2 x 10mm studs.	
Protection	IP 56	
Spare Part	4641	Spare key

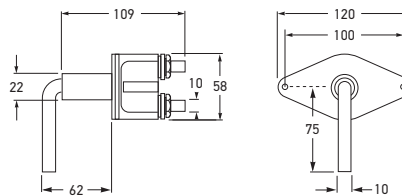


Part Number	4650	OFF-ON
Mounting	24mm diameter opening	
Maximum Load	12V DC 24V DC	1000A for up to 10 seconds. 500A for up to 10 seconds.
Maximum Continuous Load	12/24V - 50A at a maximum ambient temperature of 80°C with 35mm ² lead, connected with ring-type terminals.	
Termination	2 x 10mm studs.	
Protection	IP X4 (Protection against water splashing)	
Spare Part	4652	Spare key

Switch not designed for Marine applications.

Battery Master Switch

Suitable for cars and medium sized trucks. Complete with removable key. For interrupting circuits (prevents theft and short circuit).

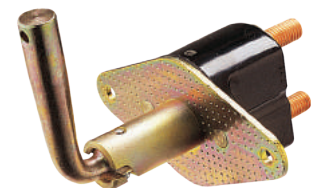


Part Number	4653	OFF-ON
Mounting	22mm diameter opening.	
Maximum Load	12V DC 24V DC	5000A for 10 seconds. 2500A for 10 seconds
Maximum Continuous Load	12/24V DC	100A continuous at a maximum ambient temperature of 60°C with 50mm ² lead connected with ring-type terminals.
Termination	2 x 10mm studs.	
Protection	IP X4 (Protection against water splashing)	
Spare Part	4654	Spare key

Switch not designed for Marine applications.

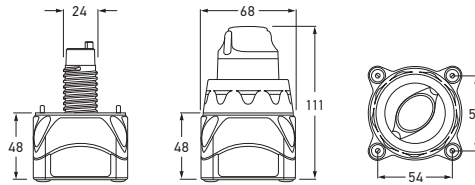
Heavy Duty Battery Master Switch


For trucks, buses and earth moving equipment. Complete with removable key.



Battery Master Switch

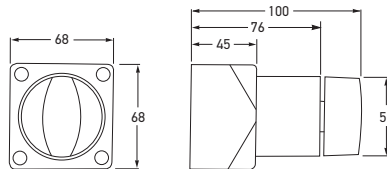
Battery master switch with threaded collar. Suitable for cars and medium sized trucks. Complete with removable key, labelled handle and removable back cover. For interrupting circuits (prevents theft and short circuit).




Part Number	4722		OFF-ON
Mounting	Recess or surface mount. 25mm diameter opening.		
Maximum Load	12/24V DC	1250A for up to 10 seconds.	
Maximum Continuous Load	12/24V DC	275A	
Termination	2 x 10mm studs.		
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)		

Remote Operated Battery Master Switch

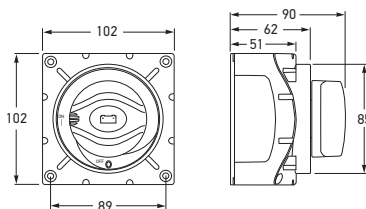
Battery switch with tin-plated copper studs and nuts. Can be operated manually or remotely with a separate switch (not supplied). Suitable for mounting alongside battery reducing cable lengths to starter motor. Complete with removable key and 3 way DTM plug.




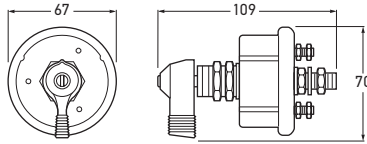
Part Number	4724		OFF-ON
Mounting	Recess or surface mount. 55mm diameter opening.		
Voltage	12/24V DC		
Power Consumption	2W @ 12V DC when operating, 0.25W static.		
Maximum Load	12/24V DC	1250A for up to 10 seconds.	
Maximum Continuous Load	12/24V DC	275A	
Termination	2 x 10mm studs.		
Cable Length	500mm		

Heavy Duty Battery Master Switch

For commercial use. Features sliding contact for self cleaning.



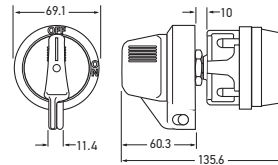
Part Number	4720		OFF-ON
Mounting	Recess or surface mount. 85mm diameter opening.		
Maximum Load	12/24V DC	2500A for up to 10 seconds.	
Maximum Continuous Load	12/24V DC	600A	
Termination	2 x 12mm studs.		
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)		



Part Numbers	4642	
	4643	■ SILVER CONTACTS
Mounting	19mm diameter opening.	
Maximum Load	1000A at 6-36V DC intermittent	
Maximum Continuous Load	125A at 6-36V DC continuous (large studs) 20A continuous (small studs)	
For Panels	Up to 4.75mm thick.	
Spare Part	4645	Key ①
Accessories	4646	Face Plate ②
	4647	Lockout lever kit ③

Battery Master Switch

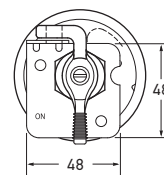
Double-pole, 2-position (off-on) Battery Master Switch with plated steel case designed to disconnect both battery and field circuit. Actuated by chrome-plated die-cast lever. Part No. 4643 features silver laminated contacts.



Part Numbers	HM7592B	■ RED HANDLE
	HM7592Y	■ YELLOW HANDLE
Mounting	Sealed design allows switch to be mounted in the best location regardless of environment.	
Operating Temp.	-40°C to +85°C	
Maximum Continuous Load	300A at 12V DC continuous 250A at 24V DC continuous	
Protection	Waterproof and dustproof to IP67.	

Battery Master Lockout Switches - 2 Pole

Heavy-duty 2-pole lockable battery lock out switch. The Battery lockout switch provides a reliable power disconnection and safety cut-off that protects the vehicle against tampering, theft and battery drain. It also protects service personnel from electrical hazards during service operations.



Part Numbers	HM7590R	■ RED HANDLE
	HM7590Y	■ YELLOW HANDLE
Mounting	19mm diameter opening.	
Operating Temp.	-40°C to +29°C	
Maximum Load	300A at 6-33V DC continuous	
Protection	Waterproof and dustproof to IP67.	
Spare Parts	9.HM759RED	Red Lockout Cover ①
	9.HM759YEL	Yellow Lockout Cover ②

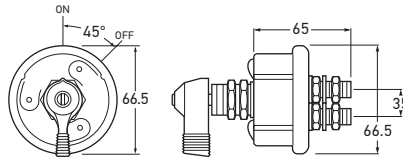
Battery Master Lockout Switches - 2 Pole

Heavy-duty 2-pole Lockable Battery Lockout Switch. The Battery lockout switch provides a reliable power disconnection and safety cut-off that protects the vehicle against tampering, theft and battery drain. It also protects service personnel from electrical hazards during service operations.



**Battery Master Lockout Switch
- 4 Pole**

Heavy-duty 4-pole lockable battery lock out switch. The Battery lockout switch provides a reliable power disconnection and safety cut-off that protects the vehicle against tampering, theft and battery drain. It also protects service personnel from electrical hazards during service operations. Isolates of both positive and negative sides from the battery, or isolation of 2 circuits with only one switch.

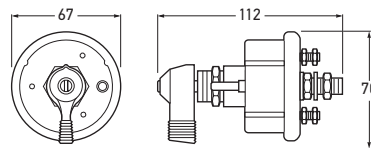


Part Number	HM7591S	■ SILVER HANDLE
Mounting	19mm diameter opening.	
Operating Temp.	-40°C to +29°C	
Maximum Load	125A at 6-36V DC continuous	
Protection	Waterproof and dustproof to IP67.	
Spare Parts	9.HM759RED 9.HM759YEL	Red Lockout Cover ① Yellow Lockout Cover ②



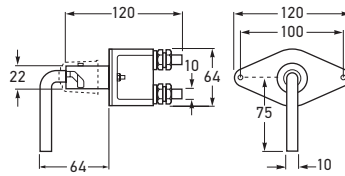
**Battery Master Switch - Silver
Contacts - Weatherproof**

Weatherproof double-pole, 2-position (off-on) Battery Master Switch featuring plated steel case, silver laminated contacts and O-ring seal to protect from dirt and moisture. Also features index pin to align unit and prevent rotation.



Part Number	4644	■ SILVER CONTACTS
Mounting	19mm diameter opening.	
Maximum Load	1000A at 6-36V DC intermittent	
Maximum Continuous Load	125A at 6-36V DC continuous (large studs) 20A continuous (small studs)	
For Panels	Up to 6.75mm thick.	
Spare Part	4645	Key ①
Accessories	4646 4647	Face Plate ② Lockout lever kit ③

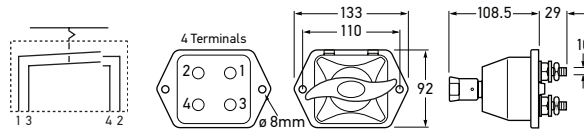
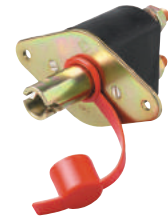




Part Number	4655	
Mounting	24mm diameter opening.	
Maximum Load	2500A at 12-24V DC for 5 seconds	
Maximum Continuous Load	250A at 12-24V DC continuous	
Protection	IP 66	
Spare Parts	4655COV	Strap & PVC Protective Cover ①
	4655KEY	Handle, Chain & Protective Cover ②

Heavy Duty Battery Master Switch

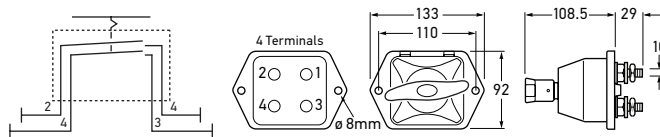
Extremely robust, single-pole (2 post) Battery Master Switch featuring double-cut copper contacts. Supplied complete with removable handle, security chain and PVC protective cover. Suitable for industrial vehicles and agricultural machinery.



Part Number	4657	
Mounting	82mm x 77mm opening Mounting hole diameter 8mm	
Maximum Load	2500A at 12-24V DC for 5 seconds	
Maximum Continuous Load	250A at 12-24V DC continuous	
Termination	2 x 12mm studs.	
Protection	IP 65	

Heavy Duty Battery Master Switch

Extremely robust, double-pole (4 post) Battery Master Switch featuring corrosion-resistant zinc-plated housing and double-cut copper contacts. Suitable for industrial and agricultural vehicles.



Part Number	2769	
Mounting	82mm x 77mm opening Mounting hole diameter 8mm	
Maximum Load	2500A at 12-24V DC for 5 seconds	
Maximum Continuous Load	250A at 12-24V DC continuous	
Termination	2 x 12mm studs.	
Protection	IP 65	

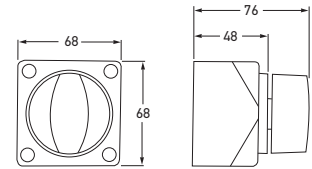
Heavy Duty Battery Master Switch - Weatherproof

Extremely robust, double-pole (4 post) Battery Master Switch with corrosion-resistant zinc-plated housing and double-cut copper contacts. Specifically designed for marine applications featuring additional white surface protection coating for extended durability.



Battery Selector Switch

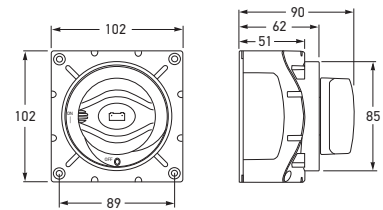
Battery Switch to select either from two power sources or combine together. Will also isolate from the power sources.



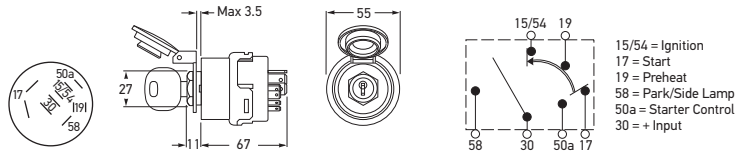
Part Number	4723	OFF-B1-BOTH-B2
Mounting	Recess or Surface Mount.	
Maximum Load	12/24V DC	1000A for up to 10 seconds.
Maximum Continuous Load	12/24V DC	200A
Termination	3 x 5/16" studs.	
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)	

Battery Selector Switch

Battery Switch to select either from two power sources or combine together. Will also isolate from the power sources.



Part Number	4721	OFF-B1-BOTH-B2
Mounting	Recess or Surface Mount. 85mm diameter opening.	
Maximum Load	12/24V DC	1500A for 10 seconds
Maximum Continuous Load	12/24V DC	350A
Termination	3 x 10mm studs.	
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)	
Switch can be locked using 6mm diameter padlock with 75mm reach.		



Diesel Pre-heating Starter Switch

Pre-heating Starter Switch supplied with two keys. Key removes in park and off.

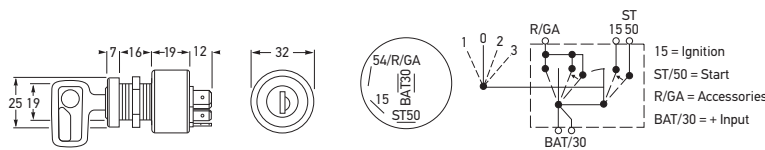


Part Number	4005
Mounting	26.5mm diameter opening.
For Panels	Up to 3.5mm thick.
Function	5 position switch (park, off, driving, pre-heat, start).

TERMINAL	POSITION	FUNCTION	CURRENT @ 24V
30-58	P	Park Lamps	4A
30-15/54	1	Driving	18A
30-19	2	Preheat	35A
30-50a/17	3	Start	5A/35A

Ignition and Starter Switch

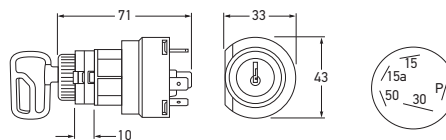
Switch with spring loaded return. Supplied with two keys.



Part Number	4008
Mounting	19mm diameter opening.
For Panels	Up to 19mm thick.
Maximum Load	@12V ignition 25A, start 12A, accessory 15A.
Spare Part	Blank key number Silica BH4.
Function	Four position switch (accessory, off, ignition, start).

Heavy Duty Ignition and Starter Switch

Heavy Duty Ignition and Starter Switch, featuring plastic outer construction for maximum protection against damage. Supplied with two keys.

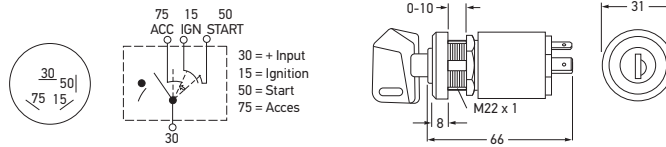


Part Number	4008HD
Mounting	19mm diameter opening.
For Panels	Up to 10mm thick.
Maximum Load	@12V park 2A, ignition 20A, start 25A., accessory 30A
Function	Four position switch (park, off, ignition, start). Key removes in park and off.



Ignition and Starter Switch

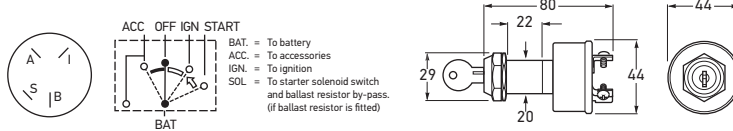
Two keys supplied. Start-lockout mechanism to prevent accidental engagement of starter.



Part Numbers	4009	22MM SHAFT
	4010	18MM SHAFT
Mounting	4009 22.5mm diameter opening 4010 18.5mm diameter opening	
For Panels	Up to 19mm thick.	
Maximum Load	@12V ignition 25A, start 50A, accessory 20A.	
Function	Four position switch (accessory, off, ignition, start).	

Ignition and Starter Switch

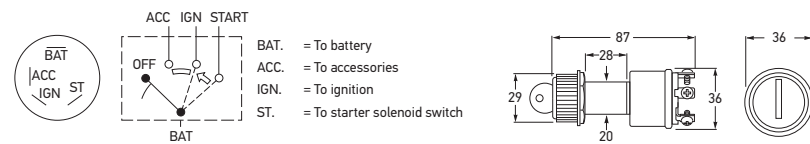
Switch with spring-loaded return. 4 screw terminals and satin finish. Corrosion-resistant brass construction.



Part Number	2760	
Mounting	21mm diameter opening.	
For Panels	Up to 30mm thick.	
Maximum Load	@12V ignition 10A, start 5A, accessory 10A.	
Function	Four position switch (accessory, off, ignition and start)	

Ignition and Starter Switch

Four position switch with spring loaded return. Four screw terminals.

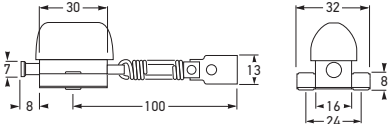


Part Number	2766	
Mounting	21mm diameter opening.	
For Panels	Up to 25mm thick.	
Maximum Load	@12V ignition 10A, start 5A, accessory 10A.	
Function	Four position switch (accessory, off, ignition and start)	

ACCESSORIES

Stop Lamp Switch - Off-On

Normally open, contacts are closed when tension is applied to the spring. Complete with splash proof rubber cap. Brake linkage clamp 6mm diameter.

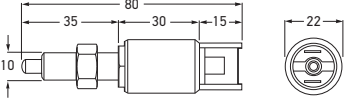


Part Number	4560	OFF-ON
Maximum Load	10A @ 12V DC 5A @ 24V DC	



Stop Lamp Switch - On-Off

Thread M10 x 1.25. Suits most Japanese vehicles.

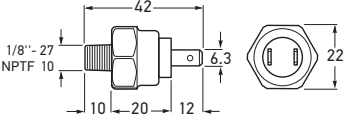


Part Number	4562	ON-OFF
Maximum Load	10A @ 12V DC	



Stop Lamp Switch - Hydraulic

1/8" x 27 NPT Thread. Complete with 2 blade terminals.

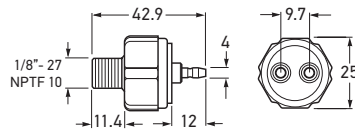


Part Number	4565	HYDRAULIC
Maximum Load	6A @ 12V DC 3A @ 24V DC	
Replaces	Original No. 476S; No. P1201A; No. 1200, No. 34542	
Suits	GMH, Ford, Chrysler, Austin, BMC and Leyland.	
Actuating Pressure	3-6 Bar	
Note	Only suitable for use with brake fluid (not silicone based).	



Stop Lamp Switch - Hydraulic

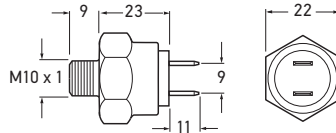
1/8" x 27 NPT Thread.



Part Number	4566	HYDRAULIC
Maximum Load	9A @ 12V DC 4.5A @ 24V DC	
Replaces	Original No. 1997725, No. LC6870, No. P7715	
Suits	GMH, Ford, Chrysler, and Dodge	
Actuating Pressure	3.7-8.2 Bar	
Note	Only suitable for use with brake fluid (not silicone based).	

Stop Lamp Switch - Hydraulic

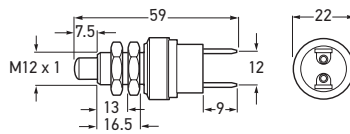
M 10 x 1 Thread.



Part Number	4567	HYDRAULIC
Maximum Load	9A @ 12V DC 4.5A @ 24V DC	
Replaces	Original No. 113 945 515C	
Suits	Volkswagen to 1970	
Actuating Pressure	3-6 Bar	
Note	Only suitable for use with brake fluid (not silicone based).	

Stop Lamp Switch - Mechanical

M 12 x 1 Thread, Plunger length 20mm

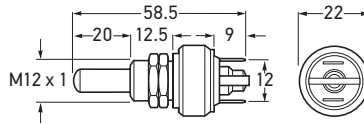


Part Number	4568	MECHANICAL
Maximum Load	40A @ 12V for 60 seconds 20A @ 24V for 60 seconds 10.5A @ 12V continuous 5.25A @ 24V continuous	

ACCESSORIES

Stop Lamp Switch - Mechanical

M 12 x 1 Thread, Plunger length 20mm

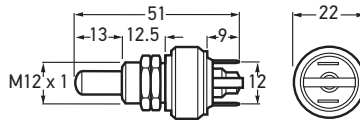


Part Number	4569	MECHANICAL
Maximum Load	5A @ 12V DC 2.5A @ 24V DC	
Replaces	Part No. 7419748	
To Suit	Ford Capri 1969-73, Escort 1970-81, Jeep C17 and Holden HR.	



Stop Lamp Switch - Mechanical

M 12 x 1 Thread.

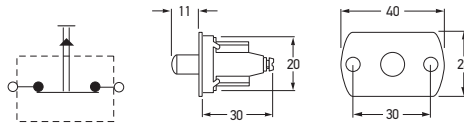


Part Number	4570	MECHANICAL
Maximum Load	5A @ 12V DC 2.5A @ 24V DC	
Replaces	Original No. 7438915	



Door Contact Switch - On-Off

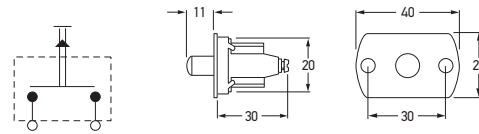
Switch closes circuit if door is opened.



Part Number	4550		ON-OFF
Mounting	21mm diameter opening.		
Maximum Load	2A @ 12V DC 1A @ 24V DC		

Door Contact Switch - Off-On

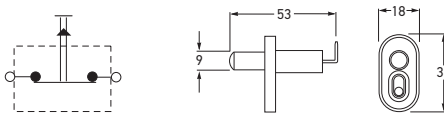
Switch opens circuit if door is opened.
May be used as safety cut-off switch.



Part Number	4551		OFF-ON
Mounting	21mm diameter opening.		
Maximum Load	2A @ 12V DC 1A @ 24V DC		

Door Contact Switch - On-Off

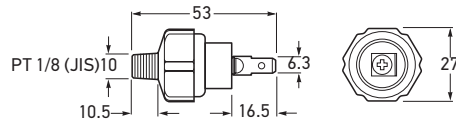
Switch closes circuit if door is opened.
Corrosion proof black plastic. Rubber seal.
Push-on terminal.



Part Number	4553		ON-OFF
Mounting	12mm diameter opening and screw.		
Maximum Load	3.5A @ 12V DC		
Plunger automatically adjusts to door gap on initial operation.			

Oil Pressure Switch

1/8" x 28 BSP Thread

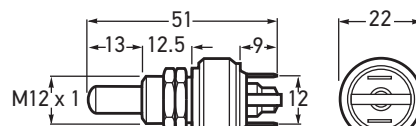


Part Number	4571
Actuating Pressure	0.14 - 0.48 Bar



Oil Pressure Switch

1/4" x 18 NPTF Thread

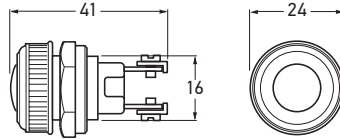


Part Number	4574
Actuating Pressure	0.14 - 0.48 Bar



Pilot Lamp

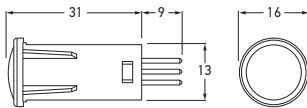
Panel push fit Pilot Lamp with non-replaceable globe. See page 253 for function descriptions.



Part Numbers	2700		GREEN
	2702		BLUE
	2704		AMBER
	2706		RED
Mounting	17.5mm diameter opening.		
Voltage	Globe to be ordered separately		
Globes to Suit	6V (W61.2) 12V (W121.2) 24V (W241.2)		

Pilot Lamp - 12 Volt

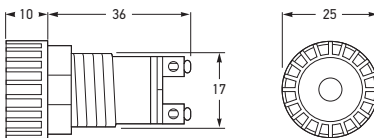
Panel push fit Pilot Lamp with non-replaceable globe. See page 253 for function descriptions.



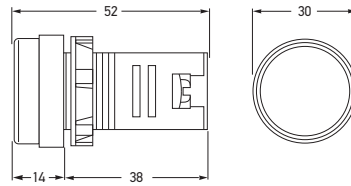
Part Numbers	2708		RED
	2709		GREEN
	2710		BLUE
	2711		AMBER
Mounting	12.5mm diameter opening.		
Voltage	12V DC		
Suitable for 12V only. Globe not replaceable.			

Pilot Lamp - 12 Volt

Pilot Lamp utilizing bayonet based globe for use under heavy duty conditions. See page 253 for function descriptions.



Part Numbers	2712		RED
	2713		GREEN
	2714		BLUE
	2715		AMBER
Mounting	17mm diameter opening.		
Globes to Suit	12V DC 24V DC	H122 (included) H242	



LED Pilot Lamp - 12/24V AC/DC

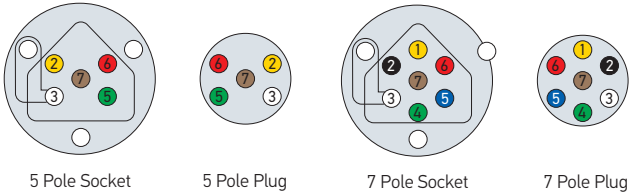
Heavy duty multi-chip LED Pilot Lamp featuring shock-resistant one-piece construction for long service life and polycarbonate lens. See below for function descriptions.

Part Numbers	2716	12V AC/DC	■ RED
	2716-24V	24V AC/DC	
	2717	12V AC/DC	■ GREEN
	2717-24V	24V AC/DC	
	2718	12V AC/DC	■ AMBER
	2718-24V	24V AC/DC	
	2719	12V AC/DC	■ WHITE
	2719-24V	24V AC/DC	
	2720	12V AC/DC	■ BLUE
	2720-24V	24V AC/DC	
Mounting	22mm diameter opening.		
For Panels	Up to 38mm thick.		
Voltage	12V or 24V AC/DC		
Protection	IP 65 (Protection against dust and water jets) when installed.		



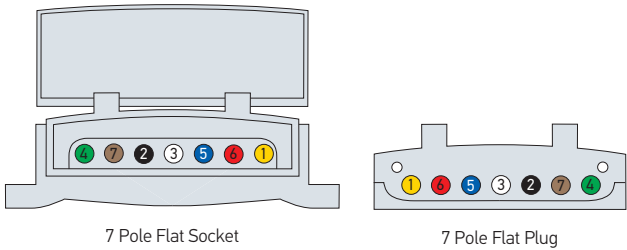
Trailer Connector
Wiring Specifications

Cable Entry View (old AS2513)



5 POLE CONNECTOR WIRING SPECIFICATIONS	
Terminal Number	Connect to
2	Left-hand flasher lamps
3	Earth return
5	Right-hand flasher lamps
6	Stop lamps
7	Rear position, number plate and clearance lamps

Front View (old AS41775-2004)



7 POLE CONNECTOR WIRING SPECIFICATIONS	
Terminal Number	Connect to
1	Left-hand flasher lamps
2	Reversing lamps
3	Earth return
4	Right-hand flasher lamps
5	Service brakes (or Auxiliary)
6	Stop lamps
7	Rear position, number plate and clearance lamps

Note If separate earth cable is not used on vehicle, earthing strip supplied should be fitted into Terminal No. 3 of socket and under mounting screw as shown. * Where service brakes are not fitted, Terminal No. 5 may be used for auxiliaries.

Trailer Socket Bracket

Zinc plated steel. To suit P/Ns 4901 and 4912.



Part Number	8022
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ACCESSORIES

7 Pole Metal Socket

Metal housing with securing cap locks plug in position



Part Numbers	4901	
	4901BULK (Pack of 25) Metal	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	

7 Pole Plastic Plug

Black Plastic Plug with strain relief.



Part Number	4902	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	

7 Pole Plastic Socket

Simply stores in boot until required.
Requires no permanent bumper mounting.



Part Number	4909	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	

7 Pole Plastic Plug

Metal housing.



Part Number	4911	
	4911BULK (Metal)	PACK OF 25
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	

7 Pole Plastic Socket

Plastic housing.



Part Number	4912	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	

7 Pole Base Socket

Impact-resistant, UV-stabilised plastic spring loaded lid. Nickel plated contacts for excellent electrical performance. Mates with all standard 7 pole connectors



Part Number	4920	
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	

7 Pole Flat Plug

Impact-resistant, UV-stabilised plastic. Nickel plated contacts for excellent electrical performance. Mates with all standard 7 and 12 pole connectors



Part Number	4921	
	4921-BULK	PACK OF 50
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	

7 Pole Socket - Metal, Small

Diecast in robust zinc alloy. High-conductivity brass contacts for superior current flow.



Part Number	4930	
Mounting	Flush Mount	
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	

7 Pole Plug - Metal, Small

Diecast in robust zinc alloy. High-conductivity brass contacts for superior current flow.

Part Number	4931
Maximum Load	20A @ 12V (total) 10A @ 24V (total)



7 Pole Socket - Plastic, Small

Unique twist lock/electrical connection block. Compact design. Made of impact and UV-resistant thermoplastic. High-conductivity brass contacts for superior current flow.

Part Number	4932
Mounting	Flush Mount
Maximum Load	20A @ 12V (total) 10A @ 24V (total)



7 Pole Plug - Plastic, Small

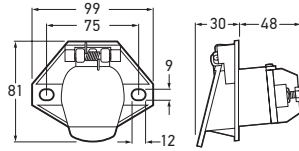
Made of impact and UV-resistant thermoplastic. High-conductivity brass contacts for superior current flow.

Part Number	4933
Maximum Load	20A @ 12V (total) 10A @ 24V (total)



2 Pole Socket - 200A

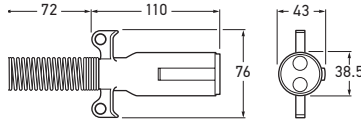
2 Pole Socket designed for applications with high Current Draw requirements. Easy to install and operates independently of lighting circuit.



Part Number	4941	SOCKET
Maximum Load	200A @ 12V	

2 Pole Plug - 200A

2 Pole Plug designed for applications with high Current Draw requirements. Easy to install and operates independently of lighting circuit.

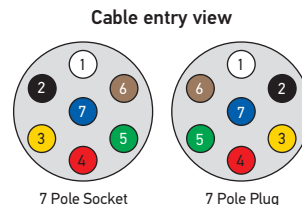


Part Number	4940	PLUG
Maximum Load	200A @ 12V	

DIN ISO Connector Wiring Specifications

Diecast in robust zinc alloy. High-conductivity brass contacts for superior current flow. AS4735 - 2003 (SAE + ISO)

5 POLE CONNECTOR WIRING SPECIFICATIONS	
Terminal Number	Connect to:
1 (31)	Common Earth Return
2 (58L)	Left-hand Rear Position/Marker & Clearance Lamps
3 (L)	Left-Hand Direction Indicators
4 (54)	Stop Lamps
5 (R)	Right-hand Direction Indicators
6 (58R)	Right-hand Rear Position/Marker, Clearance and Licence Plate Lamps
7 (Centre)	Reversing Lamps



Part Number	4907	SOCKET
	4908	PLUG
Maximum Load	15A @ 24V with 1.5mm ² cable (total) 20A @ 24V with 2.5mm ² cable (total)	7 x 40A @ +12V 7 x 20A @ +24V
Suitability	4907 suits 4908, 4934 & 4934NY 4908 suits 4907, 4935 & 4935NY	

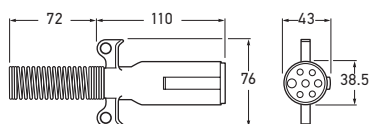


7 Pole Heavy Duty Plug and Socket

Plug and Socket made from metal, with screw terminals (ISO 1185). Manufactured in accordance with AS4735-2003 (ISO1185 & SAE J560B)

7 Pole Heavy Duty SAE Plug- Metal

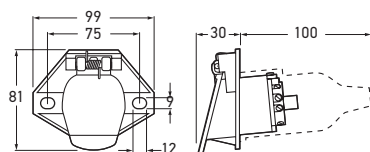
Heavy-duty 7 Pole Metal Plug manufactured in accordance with AS 4735-2003 (ISO1185 & SAE J560B) standards. Features die-cast zinc housing, high-conductivity 100% brass floating pins held between sonic-welded inserts and spring cable guard for additional support and protection. Larger finger grips set back from the latched socket lid allow for safe and trouble-free disconnection.



Part Number	4934	PLUG
Maximum Load	70A @ 12V	
Suits	Part No's 4907, 4935 and 4935NY	

7 Pole SAE Socket- Metal

Heavy-duty 7 Pole Metal Socket die-cast in robust zinc and manufactured in accordance with AS 4375-2003 (ISO1185 & SAE J560B) standards. Features include full opening lid for ease of plug insertion and extended front barrel housing for added plug support. Raised internal ribs allow for drainage of moisture to prevent corrosion and short circuits. Includes protective rubber boot, Part No. 4936.

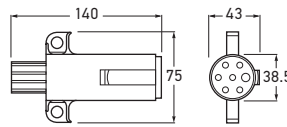


Part Number	4935	SOCKET
Mounting	58.9mm diameter opening	
Maximum Load	70A @ 12V	
Suits	Part Nos 4908, 4934 and 4934NY	
Spare Part	4936 Protective Rubber Boot ①	



① P/N 4936

7 Pole SAE Plug - Nylon

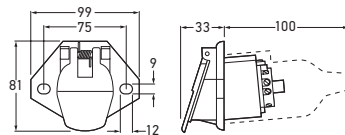


Heavy-duty 7 Pole Plug manufactured in accordance with AS 4735-2003 (ISO1185 & SAE J560B) standards. The ultra-durable nylon housing is of lightweight and resistant to degreasers, solvents and contact cleaners. Other features include high-conductivity 100% brass pins, exclusive cable guard and 360 degree compression clamp creating a rear moisture seal, whilst also preventing accidental cable pull out.

Part Number	4934NY	PLUG
Maximum Load	70A @ 12V	
Suits	Part No's 4907, 4935 and 4935NY	



7 Pole SAE Socket - Nylon



Heavy-duty 7 Pole Socket made from composite glass-filled nylon and manufactured in accordance with AS 4735-2003 (ISO1185 & SAE J560B) standards. The ultra-durable nylon housing is of lightweight and resistant to petrochemicals, solvents and contact cleaners. Raised internal ribs allow for drainage of moisture to prevent corrosion and short circuits. Other features include full opening lid and extended front barrel housing for additional support and protection. Supplied complete with protective rubber boot, Part No. 4936.

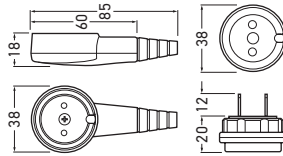
Part Number	4935NY	SOCKET
Mounting	58.9mm diameter opening	
Maximum Load	70A @ 12V	
Suits	Part No's 4908, 4934NY and 4934	
Spare Part	4936 Protective Rubber Boot ¹	



¹ P/N 4936

Magcode® Power Outlet Systems

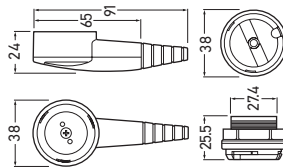
System with magnetically coded flat contacts. Port (outlet) and clip (connector) feature powerful magnets with integral switching function ensuring stable connection and safe power supply. Easy to install, 100% shortcircuit-proof. Suits retro-fitting.



Part Numbers	HMPS12VKIT	☐	POWER SYSTEM - 12 V DC
	HMPS24VKIT	☐	POWER SYSTEM - 24V DC
	HMPS12VPT	☐	POWER PORT - 12 V DC
	HMPS24VPT	☐	POWER PORT - 24 V DC
	HMPS12VCP	☐	POWER CLIP - 12 V DC
	HMPS24VCP	☐	POWER CLIP - 24 V DC
Mounting	28mm dia. (M28) opening		
Maximum Load	25A @ +20°C	25A @ +70°C	20A @ +85°C
Rated Voltage	12V DC	24V DC	
Locking Mechanism	Magnetic Connection		
Protection	Port (front side installed) IP6K9K Port (connection side) IP5K0	Clip (not connected) IP40 Clip (on port) IP42	

MagCode® Power Outlet Systems

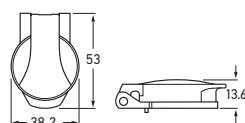
Advanced system for higher power circuits featuring additional mechanical twist lock for greater security (higher separation forces) and reliable prevention from arcing.



Part Numbers	HMPSPRO12VKIT	☐	POWER SYSTEM PLUS - 12 V DC
	HMPSPRO24VKIT	☐	POWER SYSTEM PLUS - 24V DC
	HMPSPRO12VPT	☐	POWER PORT PLUS - 12 V DC
	HMPSPRO24VPT	☐	POWER PORT PLUS - 24 V DC
	HMPSPRO12VCP	☐	POWER CLIP PLUS - 12 V DC
	HMPSPRO24VCP	☐	POWER CLIP PLUS - 24 V DC
Mounting	28mm dia. (M28) opening		
Maximum Load	26A @ +20°C	25A @ +70°C	20A @ +85°C
Rated Voltage	12V DC	24V DC	
Locking Mechanism	Magnetic Connection plus mechanical twist lock		
Protection	Port (front side installed) IP6K9K Port (connection side) IP5K0	Clip (not connected) IP40 Clip (on port) IP42	

MagCode® Power Port Protective Cap

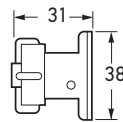
Protective cap for all MagCode® Power Ports



Part Number	HMPSPCAP
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2 Pole Socket

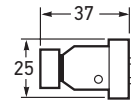
Chrome-plated 2-pin polarised. All-brass connection



Part Number	2741	SOCKET
Maximum Load	22A @ 12V	
Mounting	Surface Mount (3x3mm holes).	

**2 Pole Plug**

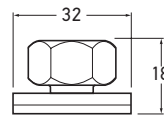
Chrome-plated 2-pin polarised. All-brass construction. Waterproof gland cable entry.



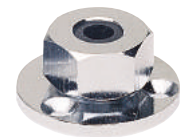
Part Number	2742	SOCKET
Maximum Load	22A @ 12V	

**Grommet - Surface Mount - 8mm**

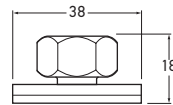
Chrome-plated Grommet ensures waterproof cable entry. All-brass construction



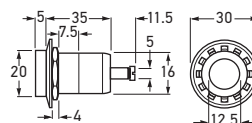
Part Number	2746	GROMMET
Cable Dimensions	Up to 8mm diameter.	

**Grommet - Surface Mount - 12mm**

Chrome-plated Grommet ensures waterproof cable entry. All-brass construction



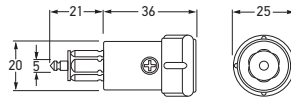
Part Number	2747	GROMMET
Cable Dimensions	Up to 12mm diameter.	

**2 Pole Socket**

Part Number	4913	SOCKET
Mounting	19mm diameter opening.	
Maximum Load	8A @ 12V	4A @ 24V
Suits	Plug to suit 4914, 4951, 4952 and 4939	

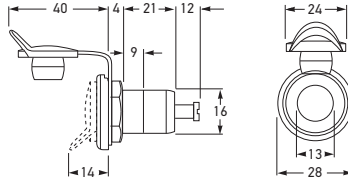


2 Pole Plug



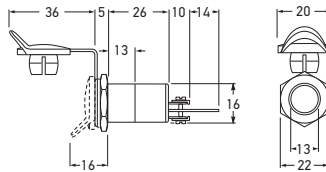
Part Number	4914	PLUG
Maximum Load	32A @ 12V 16A @ 24V	
Sockets to Suit	P/Ns 4915, 4916, 4917 and 4918.	

2 Pole Socket with Cover



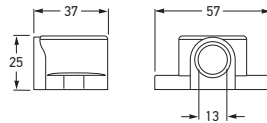
Part Number	4915	SOCKET
Mounting	19mm diameter opening.	
Maximum Load	16A @ 12V 8A @ 24V	

2 Pole Socket with Cover - Insulated Earth



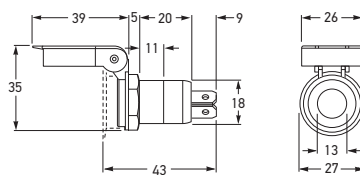
Part Number	4916	SOCKET
Mounting	19mm diameter opening.	
Maximum Load	16A @ 12V 8A @ 24V	

2 Pole Surface Mount Socket



Part Number	4917	SOCKET
Mounting	Surface Mount.	
Maximum Load	32A @ 12V 16A @ 24V	

2 Pole Socket with Metal Earth Tab and Cover

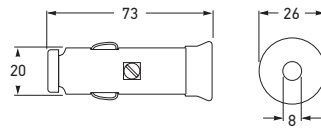


Part Number	4918	SOCKET
Mounting	22mm diameter opening.	
Maximum Load	16A @ 12V 8A @ 24V	

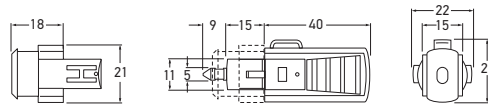
ACCESSORIES

2 Pole Power Plug

Suitable for standard cigarette sockets.



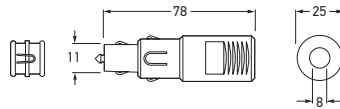
Part Number	4950	PLUG
Maximum Load	8A @ 12V 4A @ 24V	
Socket to Suit	4942 & 4943	

**2 Pole Universal Power/DIN Plug**

Part Number	4951	PLUG
Maximum Load	8A @ 12V 4A @ 24V	
Sockets to Suit	P/Ns 4915, 4916, 4917, 4918, 4942 and 4943.	

**2 Pole Fused Power/DIN Plug**

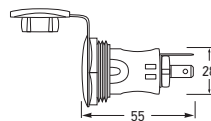
Combination Lighter/DIN 2 Pole Plug with in-built 8A ceramic type fuse suitable for both cigarette lighter and DIN ISO 4165 sockets (standard 2 pole sockets).



Part Number	4952	PLUG
Maximum Load	8A @ 12V	
Sockets to Suit	P/Ns 4913, 4915, 4916, 4917, 4918, 4939, 4942 and 4943.	

**2 Pole Power Socket**

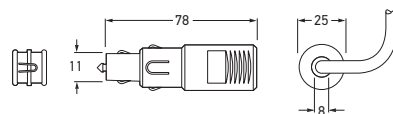
2 Pole lighter size Power Socket with protective cover for connection of a variety of electrical accessories.



Part Number	4943	SOCKET
Maximum Load	15A @ 12V	
Plugs to Suit	P/Ns 4950, 4951, 4952 & 4939.	

**2 Pole Power Socket - Twin DIN Output**

Twin Power Socket featuring two DIN 1465 output sockets for connection of accessories. Plugs into standard vehicle cigarette lighter sockets. Primary lighter plug connection features a removable extension piece allowing the unit to also plug into DIN 2 pole sockets if required.

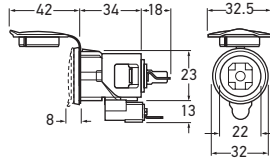


Part Number	4939	SOCKET
Maximum Load	10A	



**2 Pole Power Socket
- Illuminated - 12V DC**

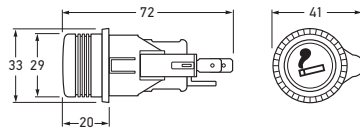
2-pole cigarette-lighter-size Power Socket with protective cover and illuminated collar for connection of a variety of electrical accessories.



Part Number	4942	SOCKET
Voltage	12V Globe included	
Maximum Load	15A @ 12V	
Globes to Suit	12V (W121.2) 24V (W241.2)	
Sockets to Suit	P/Ns 4950, 4951, 4952 & 4939.	

Cigarette Lighter - Illuminated

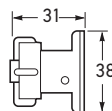
Illuminated Cigarette Lighter with inbuilt globe. Ready to light in 10 seconds.



Part Numbers	4937	12 VOLTS
	4938	24 VOLTS
Voltage	12V 24V	
Globes to Suit	12V (W121.2) 24V (W241.2)	

4 Pole SOCKET

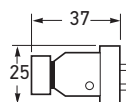
Chrome-plated 4-pin polarised. All-brass construction.



Part Number	2744	SOCKET
Mounting	Surface Mount (3 x 3mm holes)	
Maximum Load	22A @ 12V	

4 Pole Plug

Chrome-plated 4-pin polarised. All-brass construction. Waterproof gland cable entry.

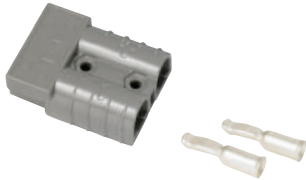


Part Number	2745	PLUG
Maximum Load	22A @ 12V	

Part Numbers	HM50AND	POWER CONNECTOR KIT - 50A
	HM175AND	POWER CONNECTOR KIT - 175A
	HM350AND	POWER CONNECTOR KIT - 350A
Rated Voltage	600V AC/DC	
Maximum Load	HM50AND – 50A (13.3mm ² cross sectional area (6AWG) wire) HM175AND – 175A (53.5mm ² cross sectional area (1/0AWG) wire) HM350AND – 350A (67.5mm ² cross sectional area (2/0AWG) wire)	

Power Connectors

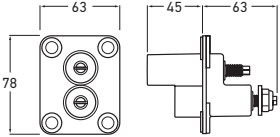
Robust 2 Pole Power Connectors with high current capacity. Suitable for a broad range of product applications. The polycarbonate housings are genderless to reduce inventory, and feature integral stainless steel locking springs for improved contact retention and mating force. Silver-plated copper contacts are cold-headed and designed to carry high currents. One-way fitment ensures correct polarity connection.



Part Numbers	HMPS75S	■ BLACK	POWER CONNECTOR KIT - 75A
	HMPS75G	■ GREEN	POWER CONNECTOR KIT - 75A
	HMPS75R	■ RED	POWER CONNECTOR KIT - 75A
	HMPS75B	■ BLUE	POWER CONNECTOR KIT - 75A
Rated Voltage	600V AC/DC		
Maximum Load	75A (13.3mm ² cross sectional area (6AWG) wire)		

Power Connectors

Single-pole Power Connectors with colour-coded, genderless housings and cold-headed, silver-plated copper contacts.



Part Numbers	HM7546J	JUMP START TERMINAL
	HM7546KIT	JUMP START TERMINAL KIT
	HM7546P	JUMP START PLUG
Spare Parts	HM7546B Terminal Bracket ① HM7546C Terminal Cap ②	

Jump Start Terminals

Heavy duty, high capacity Jump-Start Connectors for vehicles and equipment. Ideal for use where access to terminals is restricted or dangerous. Eliminates chance of cross polarity connections through the specially shaped plug. Reduces chance of sparking and possible ignition of flammable materials.. Kit contains terminal, bracket and cap.







Weatherproof Connectors

Plastic construction with screw-type connection and rubber O-ring seal for waterproof connection. Strain relief for plug cable and a protective cover to protect socket when not in use.



Part Numbers	2782	2 POLE PLUG & SOCKET
	2783	3 POLE PLUG & SOCKET
	2784	4 POLE PLUG & SOCKET
	2785	7 POLE PLUG & SOCKET

Mounting	Suitable for surface mounting with mounting base, Part No. 2786
Maximum Load	2, 3 and 4 pole – 16A at 12V (Suitable for up to 48V) 7 pole – 10A to 12V (Suitable for up to 48V)
Cable Dimensions	Cross section up to 2.5m ² (5mm insulation)
Protection	IP67

			
2782 Pin	2783 Pin	2784 Pin	2785 Pin

Mounting Base

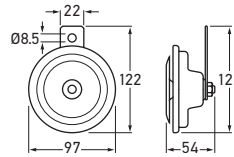
Surface Mounting Base to suit Part Nos 2782-2785. Eliminates need to recess the socket.



Part Number	2786
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Low Tone Disc Horn

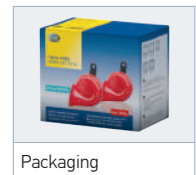
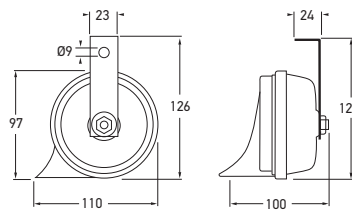
Single bolt mount. 92mm diameter.



Part Numbers	6001	400Hz	12 VOLT DC
	6002	335Hz	24 VOLT DC
Power Consumption	72W	6A - 12V DC,	3A - 24V DC
Frequency	6001 - 400Hz 6002 - 335Hz		
Sound Level	115dB @ 2.0m		

Twin Tone Scroll Horn - Set of 2

Includes 12 volt relay.

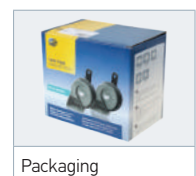
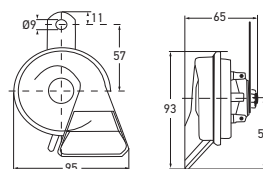


Packaging

Part Number	6004	12 VOLT DC
Power Consumption	72W x 2	6A x 2
Voltage	12V DC	
Frequency	High Tone	500Hz
	Low Tone	400Hz
Sound Level	Combined 110dB @ 2.0m	

Twin Tone Scroll Horn - Set of 2

Galvanised metal housing and plastic horn. Safe from corrosion.

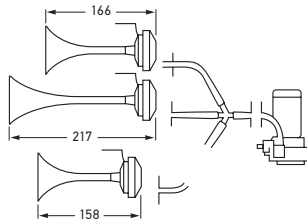


Packaging

Part Number	6005	12 VOLT DC
Power Consumption	72W x 2	6A x 2
Voltage	12V DC	
Frequency	High Tone	500Hz
	Low Tone	400Hz
Sound Level	Combined 110dB @ 2.0m	

Air Horn Kit - Triple Trumpet

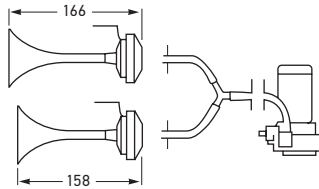
Polished stainless steel triple electric horns including support brackets.



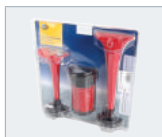
Part Number	6007	12 VOLT DC
Mounting	Installation accessories included.	
Current Draw	20A @ 12V DC	
Power Consumption	240W	
Sound Level	118dB (at 2.0 metres)	
Frequency	780 / 820 / 880Hz	
Operating Pressure	110kPA (16psi)	

Dual Trumpet Air Horn Kit

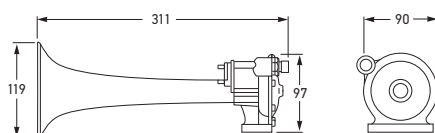
Installation accessories included.



Part Numbers	6014	12 VOLT DC
	6027	24 VOLT DC
Mounting	Installation accessories included.	
Current Draw	20A @ 12V DC 10A @ 24V DC	
Power Consumption	240W	
Sound Level	118dB	
Frequency	780/840Hz	
Operating Pressure	110Kpa (16psi)	



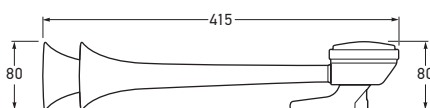
Blister packaging



Part Numbers	6025	12 VOLT DC
	6026	24 VOLT DC
Power Consumption	36W @ 12V DC, 48W @ 24V DC 3A @ 12V DC 2A @ 24V DC	
Sound Level	118dB (at 2.0m)	
Frequency	400Hz	
Operating Pressure	620-860Pa (90 - 125psi)	
Air Tube: 10mm internal diameter.		

Compressed Air Operated Horn

Ideal for trucks and buses. Grey shock-proof and corrosion resistant trumpet. This horn is designed to operate directly from the truck's air supply via the existing horn-button or separate switch.



Part Number	6032	
Air Tube	6mm dia (4mm dia. internal)	
Sound Level	118dB (at 2.0 metres)	
Frequency	300 / 320Hz	
Operating Pressure	4-8.5 bar	
Accessories	6033 Pull-operated hand valve ① 6034 Foot-operated valve ② 6035 Electro valve – 24V DC, 20W (activated via horn push-button) ③	

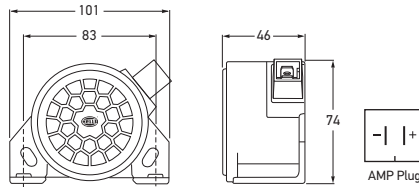
Highway Compressed Air Operated Twin Horn

Compressed-Air-Operated Twin Horn featuring rust-proof, chrome-plated housing with black base and two trumpets. Designed to operate off commercial vehicle air brake systems. The horn unit is supplied with brass fittings, mounting gear, connecting air tube, mounting gasket and detailed instructions.



Heavy Duty Reversing Alarm

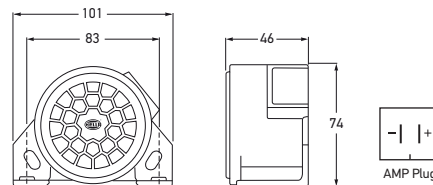
Heavy Duty Reversing Alarm with integral AMP connection and fixed sound pressure levels between 90 and 107dB @ 1.2 metres. Epoxy encapsulated circuit boards offer protection against humidity, dirt and vibration.



Part Numbers	6008	90dB
	6009	97dB
	6010	107dB
	6011	97dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	12-24V DC (P/N 6011 - 12-48V DC)	
Current Draw	P/N 6008	0.1A - 90db
	P/N 6009	0.2A - 97dB
	P/N 6010	0.3A - 107dB
	P/N 6011	0.2A - 97dB
Frequency	60 signals per minute (± 20%).	
Sound Level	P/N 6008	90 ± 4dB @ 1.2m
	P/N 6009	97 ± 4dB @ 1.2m
	P/N 6010	107 ± 4dB @ 1.2m
	P/N 6011	97 ± 4dB @ 1.2m
Temperature	Operating range -40°C to 85°C.	
Protection	IP 66 (Protection against dust and high pressure washing)	
Spare Parts	9.6008.05	Rubber boot for AMP connection 1
	9.6008.06	Wiring loom for AMP connection (2metres) 2
	6041	Activating Switch 3 (see page 387)
Compliance	SAE J994	

Multivolt™ Reversing Alarm and Signal Horn

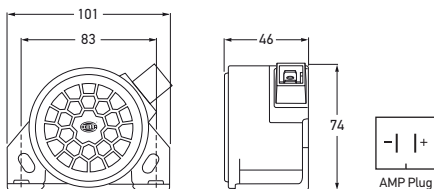
Heavy Duty Reversing Alarm with integrated, dual-tone Signal Horn. Reverse polarity and transient voltage spike protection.



Part Number	6012	102dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	12-24V DC	
Current Draw	0.3A	
Frequency	Back-up alarm	100 - 1500Hz
	High Tone	1000 - 1500Hz
	Low Tone	80Hz (+/- 37%)
Sound Level	102 +/- 4dB at 1.2m	
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	
Spare Part	6041	Activating Switch 1 (see page 387)
Compliance	SAE J994 Type F	

ACCESSORIES

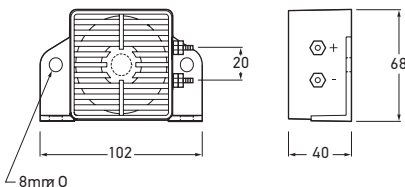
ACCESSORIES



Part Number	6013	82-102dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	12-24V DC	
Current Draw	0.4A	
Frequency	60 signals per minute (± 20%).	
Sound Level	82 - 102 ± 4dB @ 1.2m	
Temperature	Operating range -40°C to 85°C.	
Protection	IP 66 (Protection against dust and high pressure washing)	
Spare Parts	9.6008.05	Rubber boot for AMP connection ①
	9.6008.06	Wiring loom for AMP connection (2metres) ②
	6041	Activating Switch ③ (see page 387)
Compliance	SAE J994	

Heavy Duty Reversing Alarm

Heavy Duty Reversing Alarm with integral AMP connection. Automatically adjusts sound pressure level to changing noise environments. Solid state electronics, self-adjusting to the minimum of 5dB above surrounding noise levels effectively reducing irritation. Epoxy encapsulated circuit boards offer protection against humidity, dirt and vibration.



Part Number	6015	102dB
Mounting	Surface mount (2 x 8.3mm dia. mounting holes)	
Voltage	12-24V DC	
Current Draw	0.3A	
Frequency	80 signals per minute (typical).	
Sound Frequency	1200 Hz (typical)	
Sound Level	102 ± 4dB @ 1.2m	
Temperature	Operating range -40°C to +74°C.	
Protection	IP 55	
Accessory	6041	Activating Switch ① (see page 387)

Heavy Duty Reversing Alarm

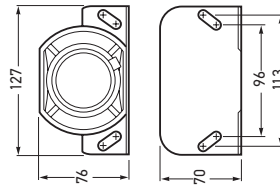
Heavy Duty Reversing Alarm equipped with reliable solid-state electronics. The compact design allows for installation on forklifts and other similarly sized vehicles. Manufactured in accordance with SAE J1446 and encapsulated in weather-resistant nylon housing for maximum protection against dust, moisture and vibration. Reverse-polarity and transient-voltage-spike protected.



ACCESSORIES

Heavy Duty Multivolt™ Reversing Alarm - 107dB

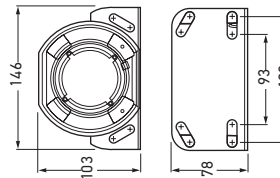
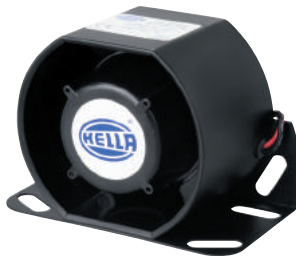
Heavy Duty Reversing Alarm with fixed sound pressure level of 107dB at 1.2 metres. Robust glass filled nylon housing and mounting plate protected with powder-coat paint for maximum durability. Completely sealed against humidity, dirt and vibration. Reverse-polarity and transient-voltage-spike protected. Manufactured in accordance with SAE J944 standards



Part Number	6016	107dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	Multivolt (12-36V DC)	
Current Draw	0.4A	
Frequency	1040-1560Hz	
Sound Level	107 +/- 4dB at 1.2m	
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	

Heavy Duty Multivolt™ Reversing Alarm - 112dB

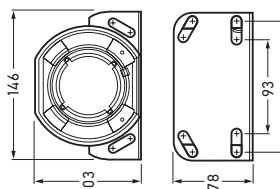
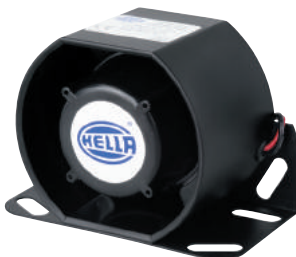
Heavy Duty Reversing Alarm with fixed sound pressure level of 112dB at 1.2 metres. Robust glass filled nylon housing and mounting plate protected with powder-coat paint for maximum durability. Completely sealed against humidity, dirt and vibration. Reverse-polarity and transient-voltage-spike protected. Manufactured in accordance with SAE J944 standards.



Part Number	6017	112dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	Multivolt (12-36V DC)	
Current Draw	0.4A	
Frequency	1000-1500Hz	
Sound Level	112 +/- 4dB at 1.2m	
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	

Heavy Duty Multivolt™ Reversing Alarm, 87 - 112dB Automatic

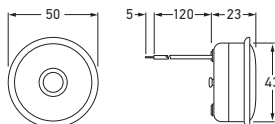
Heavy Duty Reversing Alarm automatically adjusts sound pressure level to changing noise environments. Solid-state electronics self-adjust to a minimum of 5dB above surrounding noise levels effectively reducing irritation and hearing impairment. Robust steel housing and mounting plate protected with powder-coat paint for maximum durability.



Part Number	6018	87 - 112dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	Multivolt (12-24V DC)	
Current Draw	0.4A	
Frequency	960-1440Hz	
Sound Level	87 to 112 +/- 4dB at 1.2m	
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	

ACCESSORIES

Warning Buzzer



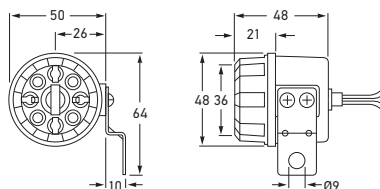
Piercing continuous sound. Suitable for a variety of applications e.g. headlamp, oil, handbrake, indicator, temperature, door close/open, brake fluid, etc.



Part Numbers	6021	85dB
	6022	
Voltage	P/N 6021 P/N 6022	12V DC 24V DC
Power Consumption	6W	
Current Draw	12V DC 24V DC	Less than 50mA Less than 25mA
Sound Level	85dB	

Multivolt™ Reversing Alarm

Durable intermittent Reversing Alarm. Easily fitted to any car or truck's reversing lamp wiring system or wire to a switch on your dashboard.



Part Number	6023	89dB
Voltage	12-36V DC	
Current Draw	Less than 50mA.	
Sound Level	89 +/- 2dB (at 1.2m)	



Activating Switch

Single direction. Off-on switch. Suits all reversing alarms and buzzers.

Part Number	6041	OFF-ON
Mounting	Adjacent to the gear shift lever or linkage.	
Protection	IP 55 (Protection against dust and water jets)	
Suits	6043 - 6049 and 6008 - 6015	

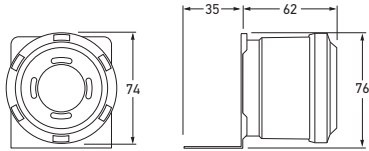


Evacuator Plus Heavy Duty Reversing Alarm

The Evacuator Plus Heavy Duty Reversing and Warning Alarm features a lightweight piezoelectric output circuit.

The reduced weight of just 129 grams makes the Evacuator Plus virtually immune to vibration damage. Unique nickel plated conductive terminal inserts, which provide power to the alarm, are hermetically sealed, giving superior water resistant performance.

The housing is constructed of high impact ABS plastic resin and is environmentally sealed against moisture, dust and corrosion. Evacuator Plus reversing and warning alarms are steam cleanable.

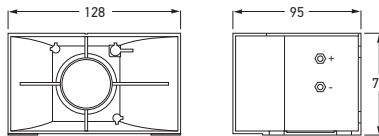


Part Numbers	6043	97dB
	6044	112dB
Mounting	Universal mounting comes complete with heavy-gauge plated steel mounting bracket. Can be installed on positive and negative ground vehicles.	
Voltage	P/N 6043/6044 - 12-48V DC	
Current Draw	Less than 0.10A	
Frequency	80 signals per minute +/- 20%	
Sound Level	P/N 6043 P/N 6044	97dB @ 1.2m 112dB @ 1.2m
Temperature	Operating range -40°C to 74°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	

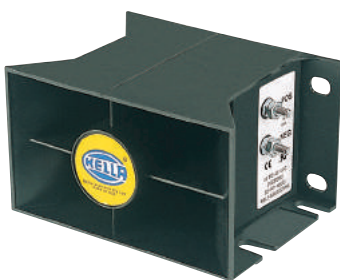
Reversing Alarm

Reactor Heavy Duty Reversing and Warning Alarm automatically adjusts to changing noise environments. State-of-the-art, solid-state electronics self-adjust to a minimum of 5dB above surrounding noise levels, thus reducing irritation, complaints and hearing impairment.

Reactor alarms feature integral universal mounting brackets and high impact ABS plastic resin housing and are totally environmentally sealed in epoxy to guard against moisture, dirt and vibration.



Part Number	6047	82-107dB AUTO
Mounting	Universal mounting brackets.	
Voltage	9 - 56V DC (12 - 48V DC Systems)	
Current draw	Less than 0.25A	
Frequency	80 signals per minute. 1.15kHz	
Sound level	82 to 107dB @ 1.2m	
Temperature	-40°C to 77°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	





Part Number	6048	87-112dB AUTO
Mounting	Universal mounting brackets.	
Voltage	9 - 36V DC (12 - 24V DC Systems)	
Current draw	Less than 0.50A	
Frequency	80 signals per minute. 1.15 kHz	
Sound level	87 to 112dB @ 1.2m	
Temperature	-40°C to 77°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	



Reversing Alarm

Durable intermittent Reversing Alarm. Easily fitted to any car or truck's reversing lamp wiring system or wire to a switch on your dashboard.



Part Number	6049	107/112dB MANUAL
Mounting	Universal mounting brackets.	
Voltage	6 - 36V DC (12 - 24V DC Systems)	
Current draw	Less than 0.8A	
Frequency	80 signals per minute. 1.2 kHz	
Sound level	107 or 112dB @ 1.2m	
Temperature	-40°C to 77°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	

Reactor alarms comply with SAE J994 requirements and OSHA regulations.



Reversing Alarm

Durable intermittent Reversing Alarm. Easily fitted to any car or truck's reversing lamp wiring system or wire to a switch on your dashboard.



Part Numbers	6051	92dB
	6052	97dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	12-24V DC	
Current Draw	Max. 0.5A	
Frequency	White noise/broadband.	
Sound Level	P/N 6051	92 ± 4dB @ 1.2m
	P/N 6052	97 ± 4dB @ 1.2m
Temperature	Operating range -40 to 85°C.	
Protection	IP 68 (Protection against dust and water immersion)	
Compliance	SAE J994	CE

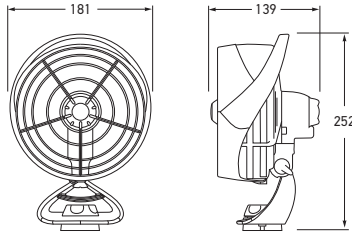


Broadband Reversing Alarm

Reversing Alarm with multi-frequency broadband sound.

**Oscillating Turbo 2.0 Fan
- Two Speed**

Highly regarded HELLA Turbo Fans are strengthened by the arrival of the Turbo 2.0 series, now featuring an oscillating function to deliver refreshingly cool air circulation on board. Turbo 2.0 fans continue with HELLA's benchmark quiet operation, low power consumption and proven durable materials.

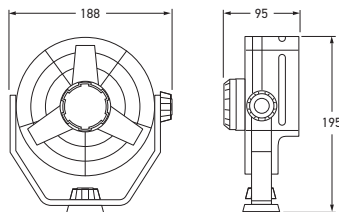


Part Numbers	8EV 003 366 012	■ BLACK	12 VOLT DC
	8EV 003 366-022	■ WHITE	
Switch	Integrated 2 stage rotary		
Output	Speed 1: 70 litre/sec. Speed 2: 95 litre/sec.		
Power Consumption	<4W (<0.33A@12V DC)		
Cable Length	Pre-wired with 1.8m of cable.		



Turbo Fan

Turbo Fans provide high capacity at low power consumption. Features include impact resistant housing, low-noise operation and soft plastic impellers, shielded by sturdy protective grille for added safety. Fans can be turned in all directions, and locked in position. Airflow can be regulated by two-stage switch.



Part Numbers	6100	12 VOLT DC
	6100-W (White)	
	6101	24 VOLT DC
Power Consumption	6.5W	
Cable Length	Pre-wired with 1.4m of cable.	
Min. Service Life	5000 hours (tested under extreme conditions)	

Battery Booster Cables

Durable Battery Booster Lead Set featuring fully-insulated clamps with shunt and 4.0 metres of jumper lead. Copper cross-section 39.5mm² (490/0.32mm).

Part Number	8852
Maximum Load	500A



Battery Booster Clamps

Fully-insulated Battery Booster Clamp with shunt featuring chrome-plated finish.

Part Numbers	8853	■ RED
	8854	■ BLACK
Maximum Load	500A	



PC Insulated
Double Crimp Terminals



PC FULLY-INSULATED FEMALE BLADE TERMINALS

Part Numbers	Type	Quantity Per Pack	Size	Cable
8206	BLISTER PACK	10	6.3mm	2.5 to 3mm/0.75 to 1.13mm ²
8506	BULK PACK	100		
8207	BLISTER PACK	10	6.3mm	4mm/1.84mm ²
8507	BULK PACK	100		
8208	BLISTER PACK	10	6.3mm	5 to 6mm/2.9 to 4.59mm ²
8508	BULK PACK	100		

PC INSULATED MALE BLADE TERMINALS

8209	BLISTER PACK	10	6.3mm	2.5 to 3mm/0.75 to 1.13mm ²
8509	BULK PACK	100		
8218	BLISTER PACK	10	6.3mm	4mm/1.84mm ²
8518	BULK PACK	100		
8219	BLISTER PACK	10	6.3mm	5 to 6mm/2.9 to 4.59mm ²
8519	BULK PACK	100		

PC INSULATED MALE BULLET TERMINALS

8225	BLISTER PACK	10	4.0mm	2.5 to 3mm/0.75 to 1.13mm ²
8525	BULK PACK	100		
8226	BLISTER PACK	10	5.0mm	4mm/1.84mm ²
8526	BULK PACK	100		

PC FULLY - INSULATED FEMALE BULLET TERMINALS

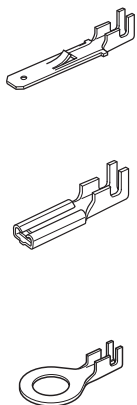
8227	BLISTER PACK	10	4.0mm	2.5 to 3mm/0.75 to 1.13mm ²
8527	BULK PACK	100		
8228	BLISTER PACK	10	5.0mm	4mm/1.84mm ²
8528	BULK PACK	100		

Insulated Double Crimp
Terminals/Connectors



PUSH-ON FEMALE TERMINALS				
Part Numbers	Type	Quantity Per Pack	Size	Cable
MALE BULLET CONNECTORS				
8220	BLISTER PACK	14		2.5 to 3mm cable 0.75 to 1.13mm ² cable
8520	BULK PACK	100		
8221	BLISTER PACK	14		4mm cable. 1.84mm ² cable
8521	BULK PACK	100		
FEMALE BULLET CONNECTORS				
8222	BLISTER PACK	12		2.5 to 3mm cable 0.75 to 1.13mm ² cable
8522	BULK PACK	100		
8223	BLISTER PACK	11		4mm cable. 1.84mm ² cable
8523	BULK PACK	100		
DOUBLE MALE BLADE CONNECTORS				
8216	BLISTER PACK	9	6.3mm	N/A

Non-Insulated Crimp Terminals

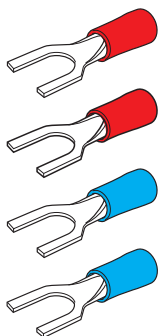


MALE BLADE TERMINALS				
Part Numbers	Type	Quantity Per Pack	Size	Cable
8570	BLISTER PACK	100	2.8mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8571	BLISTER PACK	100	6.3mm	
FEMALE BLADE TERMINALS				
8572	BLISTER PACK	100	2.8mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8573	BLISTER PACK	100	6.3mm	
EYE TERMINALS				
8574	BLISTER PACK	100	4.3mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8575	BLISTER PACK	100	5.0mm	
8576	BLISTER PACK	100	6.3mm	2.5 to 4mm cable. 0.75 to 1.84mm ² cable
8577	BLISTER PACK	100	8.4mm	

CABLE CONNECTORS				
Part Numbers	Type	Quantity Per Pack	Size	Cable
8230	BLISTER PACK	15		2.5 to 3mm cable 0.75 to 1.13mm ² cable
8530	BULK PACK	100		
8231	BLISTER PACK	14		4mm cable. 1.84mm ² cable
8531	BULK PACK	100		
8232	BLISTER PACK	8		5 to 6mm cable 2.9 to 4.59mm ² cable
8532	BULK PACK	100		
QUICK CONNECT CABLE CONNECTORS				
8235	BLISTER PACK	6		
8535	BULK PACK	25		
With the use of pliers, connects splices and insulates 0.75 to 1.13mm ² (2.5 to 3mm) cable.				
EYE TERMINALS				
8236	BLISTER PACK	25	4.3mm	4mm cable. 1.84mm ² cable
8536	BULK PACK	100		
8237	BLISTER PACK	12	9.5mm	4mm cable. 1.84mm ² cable
8537	BULK PACK	100		
8240	BLISTER PACK	25	4.3mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8540	BULK PACK	100		
8241	BLISTER PACK	25	5mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8541	BULK PACK	100		
8242	BLISTER PACK	16	6.3mm	4mm cable. 1.84mm ² cable
8542	BULK PACK	100		
8243	BLISTER PACK	25	5mm	4mm cable. 1.84mm ² cable
8543	BULK PACK	100		
8244	BLISTER PACK	20	6.3mm	4mm cable. 1.84mm ² cable
8544	BULK PACK	100		
8245	BLISTER PACK	14	8.4mm	5 to 6mm cable 2.9 to 4.59mm ² cable
8545	BULK PACK	100		
8246	BLISTER PACK	12	6.3mm	5 to 6mm cable 2.9 to 4.59mm ² cable
8546	BULK PACK	50		
8247	BLISTER PACK	12	8.4mm	5 to 6mm cable 2.9 to 4.59mm ² cable
8547	BULK PACK	50		
8248	BLISTER PACK	10	9.5mm	5 to 6mm cable 2.9 to 4.59mm ² cable
8548	BULK PACK	50		
8249	BLISTER PACK	17	5mm	5 to 6mm cable 2.9 to 4.59mm ² cable
8549	BULK PACK	50		

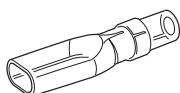


Insulated Crimp
Terminals/Connectors

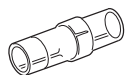


SPADE TERMINALS				
Part Numbers	Type	Quantity Per Pack	Size	Cable
8260	BLISTER PACK	21	4.3mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8560	BULK PACK	100		
8261	BLISTER PACK	21	5.0mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8561	BULK PACK	100		
8262	BLISTER PACK	20	4.3mm	4mm cable. 1.84mm ² cable
8562	BULK PACK	100		
8263	BLISTER PACK	21	5.0mm	4mm cable. 1.84mm ² cable
8563	BULK PACK	100		

PVC Terminal Insulators



FEMALE TERMINAL INSULATORS				
Part Numbers	Type	Quantity Per Pack	Size	Suits
8578	BLISTER PACK	100	2.8mm	Part No. 8572
8579	BLISTER PACK	50	6.3mm	Part No. 8573



MALE/FEMALE TERMINAL INSULATORS				
Part Number	Type	Quantity Per Pack	Size	Cable
8580	BLISTER PACK	100	6.3mm	Male bade and push-on Female (may be used to enclose crimp section of all types)

Part Numbers	HM8291	HANDY BOX® SERVICE KIT COMPLETE SET
	HM8296	HANDY BOX® CARRY CASE (EMPTY)

Handy Box® Service Kits

The Handy Box® Service Kit Complete Set contains all four Handy Box® Kits – Heat Shrink Kit, DT Connector Kit, Blade Fuse Kit and Crimp Terminal Kit. All parts in the kits are available as spares..



Part Number	HM8293	HANDY BOX® HEAT SHRINK KIT	
Replacement Parts	9.HM4810	Heat Shrink Tubing	3 Colors 1,2...5 9MJ
	9.HM4811	Heat Shrink Tubing	BK/TR 1,2...50 9MJ
	9.HM4812	Heat Shrink Tubing	3-COLOR 1,6...50 9MJ
	9.HM4813	Heat Shrink Tubing	BK/TR 1,6...50 9MJ
	9.HM4814	Heat Shrink Tubing	3-COLOR 2,4...50 9MJ
	9.HM4815	Heat Shrink Tubing	BK/TR 2,4...50 9MJ
	9.HM4816	Heat Shrink Tubing	3-COLOR 3,2...50 9MJ
	9.HM4817	Heat Shrink Tubing	BK/TR 3,2...50 9MJ
	9.HM4818	Heat Shrink Tubing	5-COLOR 4,8-100 9MJ
	9.HM4819	Heat Shrink Tubing	5-COLOR 6,2-100 9MJ
	9.HM4820	Heat Shrink Tubing	BK/TR 9,5-100 9MJ
	9.HM4821	Heat Shrink Tubing	5-COLOR 4,8-200 9MJ
	9.HM4822	Heat Shrink Tubing	BK 9,5/12,7-200 9MJ

Handy Box® Heat Shrink Kit

The Handy Box® Heat Shrink Kit contains 576 Heat Shrink tubes of various diameters and length. All parts in the kit are available as spares.



Part Number	HM8292	HANDY BOX® DT CONNECTOR KIT	
Replacement Parts	9.HM4940G	2 Pin DT Plug Set	(Pack of 10)
	9.HM4941G	2 Pin DT Receptacle Set	(Pack of 10)
	9.HM4942G	3 Pin DT Plug Set	(Pack of 10)
	9.HM4943G	3 Pin DT Receptacle Set	(Pack of 10)
	9.HM4946G	6 Pin DT Plug Set	(Pack of 8)
	9.HM4947G	6 Pin DT Receptacle Set	(Pack of 8)

Handy Box® DT Connector Kit

The Handy Box® DT Connector Kit contains 258 of the most popular DT Connectors including tools. All parts in the kit are available as spares.



Handy Box® Blade Fuse Kit

The Handy Box® Blade Fuse Kit contains 475 of the most popular amperage and blade fuse sizes. All parts in the kit are available as spares.



Part Number	HM8294	HANDY BOX® BLADE FUSE KIT
Contents	Flat Fuse Insert 2A 8JS Flat Fuse Insert 3A 8JS Flat Fuse Insert 4A 8JS Flat Fuse Insert 5A 8JS Flat Fuse Insert 7,5A 8JS Flat Fuse Insert 10A 8JS Flat Fuse Insert 15A 8JS Flat Fuse Insert 20A 8JS Flat Fuse Insert 25A 8JS Flat Fuse Insert 30A 8JS Flat Fuse Insert 2A 8JS Fuse-Link 3A 8JS Flat Fuse Insert 4A 8JS Flat Fuse Insert 5A Fivefold 8JS Flat Fuse Insert 7,5A 8JS Flat Fuse Insert 10A 8JS Fuse-Link 8JS Flat Fuse Insert 20A 8JS Flat Fuse Insert 25A 8JS Fuse Insert 30A 8JS Flat Fuse Insert 40A 8JS	

Handy Box® Crimp Terminal Kit

The Handy Box® Crimp Terminal Kit contains 401 of the most popular terminals and connectors and a crimp terminals tool. All parts in the kit are available as spares.



Part Number	HM8295	HANDY BOX® CRIMP TERMINAL KIT
Contents	Flat Fuse Insert 2A 8JS Cable Shoe 4-1 8KW Cable Shoe 5-1 8KW Flat Receptacle Female 8KW Flat Terminal 6,3 8KW Round Plug 4 8KW Cable Shoe 5-2,5 8KW Flat Receptacle Female 6,3 8KW Cable Shoe 4-2,5 8KW Cable Shoe 5-2,5 8KW Cable Lug Shoe 6-2,5 574-99 8KW 8KW Joint Connector 8KW Flat Terminal 6,3 8KW Flat Terminal 6,3 8KW Circular Socket D4 8KW Flat Terminal (Female) Receptacle 8KW Flat Terminal (Female) Receptacle 8KW Cable Shoe 8KW Cable Shoe 8KW Clutch 8KW Connector, Insulating Splice 8KV Crimping Tool 8PE	

Insulated Terminal Assortment

Pack of 16 and 29 popular HELLA connectors/terminals.

Part Numbers	8280		PACK OF 16
	8281		PACK OF 29



Part No 8280



Part No 8281

Part Number	8282
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Contents A quantity of 12 complete packs.

Part Numbers	Description	Quantity
8200	Female blade terminal	18
8201	Female blade terminal	14
8202	Female blade terminal	12
8203	Female blade terminal	10
8210	2-way male and female blade terminal	10
8211	2-way male and female blade terminal	10
8230	Cable connector	15
8231	Cable connector	14
8232	Cable connector	8
8241	Eye terminal	25
8244	Eye terminal	20
8247	Eye terminal	12

Garage/Auto Electrical Assortment Kit - 188 Piece

Assortment containing 12 complete packs of HELLA connectors/terminals specifically designed to meet the requirements of the automotive industry.



Part Number	8284
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Contents 20 types of HELLA connectors/terminals.

Part Numbers	Description	Quantity
8200	Female blade terminal	100
8201	Female blade terminal	100
8202	Female blade terminal	50
8204	Fully Insulated female blade terminal	50
8205	Female blade terminal	50
8213	Male blade terminal	50
8214	Male blade terminal	50
8220	Male bullet connector	50
8221	Male bullet connector	50
8222	Male bullet connector	50
8223	Female bullet connector	50
8230	Female bullet connector	50
8231	Cable connector	50
8232	Cable connector	50
8241	Eye terminal	50
8243	Eye terminal	50
8244	Eye terminal	50
8246	Eye terminal	25
8247	Eye terminal	25
8248	Eye terminal	25

Insulated Terminal and Connector Kit - 800 Piece

This Professional Assortment containing 1000 HELLA Connectors/Terminals and a Ratchet Crimping Tool Part No. 8273, is designed to meet the requirements of the automotive industry. Includes a quantity of 20 complete packs.





	CRIMPING TOOL	
Part Number	8270	

Positive-lock action when connector is correctly crimped. Adjustable for wear. Strips cable insulation from 2.5-6mm in diameter (0.75 - 6mm²). Cuts and sizes cable.



	CRIMPING TOOL - INSULATED TERMINALS	
Part Number	8271	

Specially designed for the handyman and hobbyist, a useful crimping tool that cuts cable, strips cable insulation and crimps all popular insulated terminals.



	CRIMPING TOOL - INSULATED TERMINALS	
Part Number	8272	

Spring return hand grips. Cuts and strips insulation from cable measuring 2.5-6mm in diameter (0.75-6mm²). Crimps all popular insulated and non-insulated terminals. Cuts bolts with metric threads M2.6, M3, M3.5, M4, M5.



	CRIMPING TOOL - INSULATED TERMINALS	
Part Number	8273	

Adjustable ratchet mechanism and spring release ensures a perfect crimp every time for insulated terminals.



	CRIMPING TOOL - NON-INSULATED TERMINALS	
Part Number	8274	

Adjustable ratchet mechanism and spring release ensures a perfect crimp every time for open barrel non-insulated terminals.



	CRIMPING TOOL - DT TERMINALS	
Part Number	HM8275	

Specially designed crimping tool with multiple jaws for an even crimp of DT terminals. See pages 401 for DT connectors.



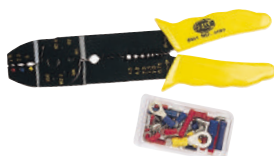
	CRIMPING TOOL - DT CONTACTS	
Part Number	HM8277	

DT Contact Crimping Tool – 0.5 - 1.0mm



	CRIMPING TOOL - SUPER SEAL TERMINALS	
Part Number	HM8298	

Crimping tool designed for use with super seal connector terminals. See pages 403 for super seal connectors.



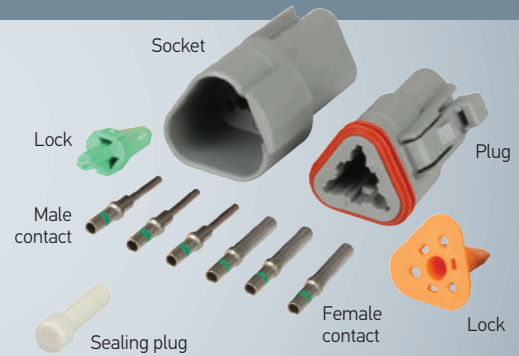
	HANDYMAN CRIMP KIT	
Part Number	8283	

Especially designed for the handyman and hobbyist, this kit contains a useful crimping tool that cuts cable, strips cable insulation and crimps all popular insulated terminals. Comes complete with an assortment of 29 popular HELLA connectors and terminals.

DT Connectors

Environmentally sealed connectors rated at -55° to 125°C. Supplied with solid copper crimp contacts, locking wedges and large I.D. removable contacts, 1.9mm in diameter.

Maximum Load	13A - all contacts	
Spare Parts	9.HM4960.01	Small I.D. female contact to suit plug
	9.HM4960.02	Small I.D. male contact to suit socket
	9.HM4960.03	Large I.D. female contact to suit plug
	9.HM4960.04	Large I.D. male contact to suit socket
	9.HM4960.05	Sealing plug

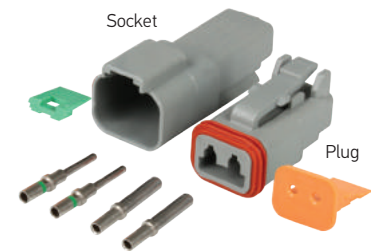


Small I.D. = 1.6mm diameter. Large I.D. = 1.9mm diameter. Plug and socket kits come complete with terminals and seals.

2 Pole Plug and Socket

Supplied with 4 solid copper crimp contacts and 2 locking wedges. Bulk pack supplied with 2 pole connectors and contacts to suit.

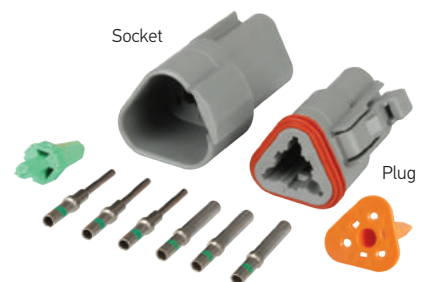
Part Number	2 POLE PLUG AND SOCKET	
	HM4960	
Part Number	2 POLE DT CONNECTOR HALF SET*	
	HM4960FM	PACK OF 10
Part Number	2 POLE PLUG KIT	
	4960-P	PACK OF 1



3 Pole Plug and Socket

Supplied with 6 solid copper crimp contacts and 2 locking wedges.

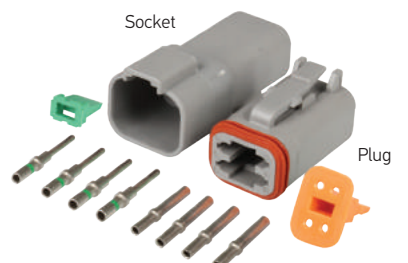
Part Numbers	HM4961	
	HM4961FM	PACK OF 10



4 Pole Plug and Socket

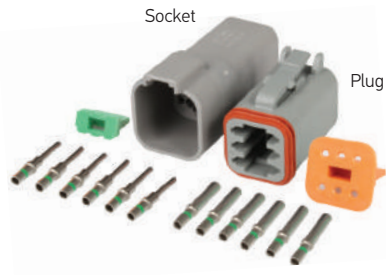
Supplied with 8 solid copper crimp contacts and 2 locking wedges.

Part Number	HM4962
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6 Pole Plug and Socket

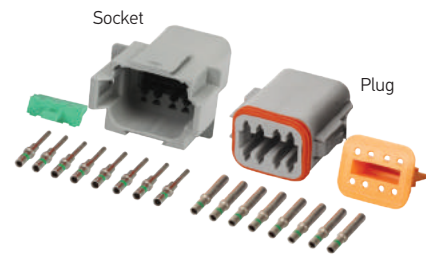
Supplied with 12 solid copper crimp contacts and 2 locking wedges.



Part Number	HM4963	
	6 PIN PLUG KIT	
Part Numbers	4963-P	PACK OF 1
	HM4963FM	PACK OF 10

8 Pole Plug and Socket

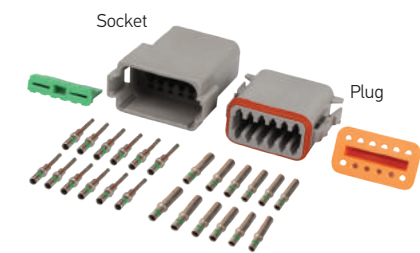
Supplied with 16 solid copper crimp contacts and 2 locking wedges.



Part Number	HM4964
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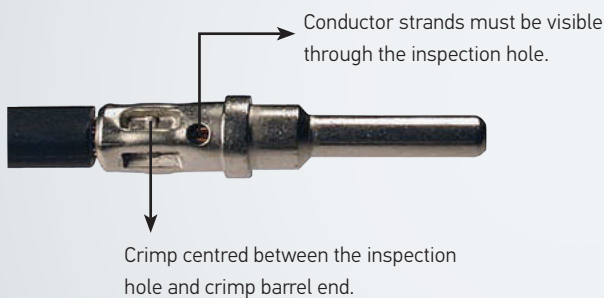
12 Pole Plug and Socket

Supplied with 24 solid copper crimp contacts and 2 locking wedges.



Part Number	HM4965
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A PROPER CRIMP



Visual Inspection Checklist

- ✓ NO damaged wire strands.
- ✓ NO missing wire strands.
- ✓ ALL strands entered into contact barrel.

Super Seal Connectors

Super seal connector housings were developed to satisfy increasing requirements for safety and reliability in the field of electrical connections. The connectors can be connected to existing components and used with the equipment presently in use in the automotive industry (sensors, oil pressure sensors, water temperature monitoring circuits, etc.).

- IP 67 (Protection against dust and temporary water immersion)
- Robust and reliable contact. Max. current 14A.
- Prefabricated secondary lock ensures that the terminal is plugged into the housing correctly and prevents slipping out of the connector.



For 'P' and 'S' versions only the bare connector is supplied. Select appropriate seals and terminals to suit. Plug and socket kits come complete with terminals and seals.

Part Numbers	1 POLE PLUG AND SOCKET	
	4981-P (Pack of 4)	PLUG
	4981-S (Pack of 4)	SOCKET



P/N 4981-P



P/N 4981-S

Part Numbers	2 POLE PLUG AND SOCKET	
	4982 (Kit)	PLUG AND SOCKET
	4982-P (Pack of 4)	PLUG
	4982-S (Pack of 4)	SOCKET



P/N 4982-P



P/N 4982-S

Spare Part 9.4982.05 Rubber sealing boot – cable support

Part Numbers	3 POLE PLUG AND SOCKET	
	4983-P (Pack of 3)	PLUG
	4983-S (Pack of 3)	SOCKET



P/N 4983-P



P/N 4983-S

Spare Part 9.4983.05 Rubber sealing boot – cable support

Part Numbers	4 POLE PLUG AND SOCKET	
	4984-P (Pack of 3)	PLUG
	4984-S (Pack of 3)	SOCKET



P/N 4984-P



P/N 4984-S

Part Numbers	5 POLE PLUG AND SOCKET	
	4985-P (Pack of 2)	PLUG
	4985-S (Pack of 2)	SOCKET



P/N 4985-P



P/N 4985-S

Part Numbers	6 POLE PLUG AND SOCKET	
	4986-P (Pack of 2)	PLUG
	4986-S (Pack of 2)	SOCKET



P/N 4986-P



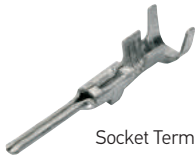
P/N 4986-S

Super Seal Connector Kit

Kit contains a variety of super seal connectors.



Plug Terminal



Socket Terminal

Part Number	4980	
Contents	Plug and Socket	5 x Super Seal Plug and Sockets
	Plug Terminals	100 x 9.HM4980.02
	Socket Terminals	100 x 9.HM4980.04
	Conductor Seals	100 x 9.HM4980.06 ■ Yellow
	Cavity Plugs	100 x 9.HM4980.09 ■ Red

Part Numbers	FEMALE TERMINALS FOR PLUG - PACK OF 50	
	9.HM4980.01	
	9.HM4980.02	
To Suit	P/N 9.4980.01	0.35 - 0.50mm ² cable
	P/N 9.4980.02	0.50 - 1.50mm ² cable

Part Numbers	MALE TERMINALS FOR SOCKET - PACK OF 50	
	9.HM4980.03	
	9.HM4980.04	
To Suit	P/N 9.4980.03	0.35 - 0.50mm ² cable
	P/N 9.4980.04	0.50 - 1.50mm ² cable

Part Numbers	SEALS FOR PLUG/SOCKET - PACK OF 50	
	9.HM4980.05	■ GREEN SEAL
	9.HM4980.06	■ YELLOW SEAL
	9.HM4980.07	■ RED SEAL
	9.HM4980.09	■ RED CAVITY PLUG (NO HOLE)
To Suit	P/N 9.4980.05	Cable insulation 1.45 - 1.7mm diameter
	P/N 9.4980.06	Cable insulation 1.8 - 2.4mm diameter
	P/N 9.4980.07	Cable insulation 2.5 - 3.3mm diameter
	P/N 9.4980.09	Red cavity plug (no hole)

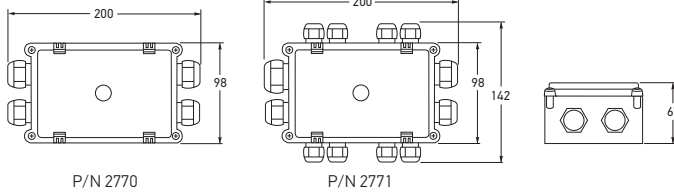


Part Number	CRIMPING TOOL - SUPER SEAL TERMINALS	
	HM8298	

Crimping tool designed for use with super seal connector terminals.



ACCESSORIES

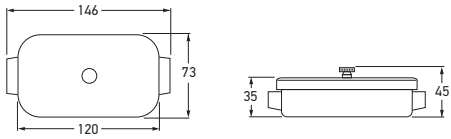


Part Numbers	2770	4 OUTLETS
	2771	12 OUTLETS
Fittings	2770	4 x Ø13mm
	2771	1 x Ø17mm + 3 x Ø13mm + 8 x Ø10mm
Protection	IP 69K (Protection against dust and high pressure/steam jet cleaning)	
Plug Cartridge	14 separate connection groups.	



Cable Junction Box

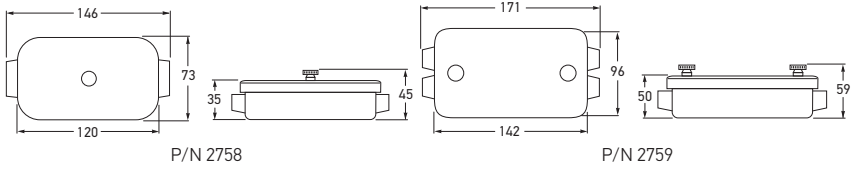
Compact Cable Junction Box with the option of 4 or 12 inlet/outlets, and outer cable size from Ø10mm to Ø17mm. Complete with connecting cartridge allowing 14 separate groups of connections (6 x 8-way and 8 x 4-way) all using 6.3mm flat blade connectors. The heavy duty nylon housing will withstand common lubricants found underneath truck and trailers, and is safe to clean with high pressure washing equipment.



Part Number	2757
Cable	Suitable for medium cable up to 6mm ² cross-sectional area.

Cable Junction Box

8 Screw connections.



Part Numbers	2758	
	2759	
To Suit	P/N 2758	Suitable for medium cable up to 6mm ² cross-sectional area.
	P/N 2759	Suitable for heavy cable up to 10mm ² cross-sectional area.

Cable Junction Box

8 pole, 8 double flat plug connection.



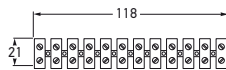
ACCESSORIES

Cable Connectors

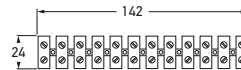
Set of 12 Brass Terminals. Flexible plastic.



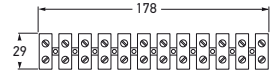
P/N 8455



P/N 8452






P/N 8453



P/N 8454

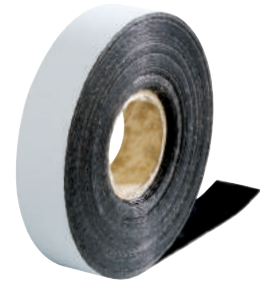
Part Numbers	8455	SET OF 12
	8452	
	8453	
	8454	

To Suit	P/N 8455	Cables up to 2.5mm (0.75mm ²)
	P/N 8452	Cables up to 3mm (1.13mm ²)
	P/N 8453	Cables up to 4mm (2.90mm ²)
	P/N 8454	Cables up to 6mm (4.59mm ²)

		
P/N 8452	P/N 8453	P/N 8454

Self-Amalgamating Loom Tape

Polyethylene self-amalgamating loom tape ideal for waterproof sealing of electrical connections, temporary repair and sealing of plumbing joints. Also suitable for emergency repair of radiators, engine hoses and auto electrics. Easy to unwind and resistant to water, ozone, UV and a wide range of chemicals including alkalis, hydraulic fluids and vegetable oils.



Part Number	HMAT85
Voltage	34kV/mm
Elongation	600%
Temperature Range	-35°C to 130°C
Size	Tape Thickness 0.5mm – tensile strength at break 12N/cm.

PVC Electrical Insulation Tape - Black

Flame-retardant PVC Electrical Insulation Tape, complying with British standards BS3924 31/90Tp, BS3J10, BS3887 (1985) Part 2 Category 1 and IEC 454-3-1.

Part Numbers	8320	10m	■ BLACK	18MM X 10M
		8322	20m	■ BLACK
Voltage	8.0kV (1 minute proof test 6.0kV)			
Conductivity	Less than 2m S/m			
Insulation Resistance	107 megohms			
Electrical Properties	Rapid Breakdown			
Size	Tape Thickness 0.145mm – tensile strength at break 26N/cm.			



PVC Electrical Insulation Tape - Red

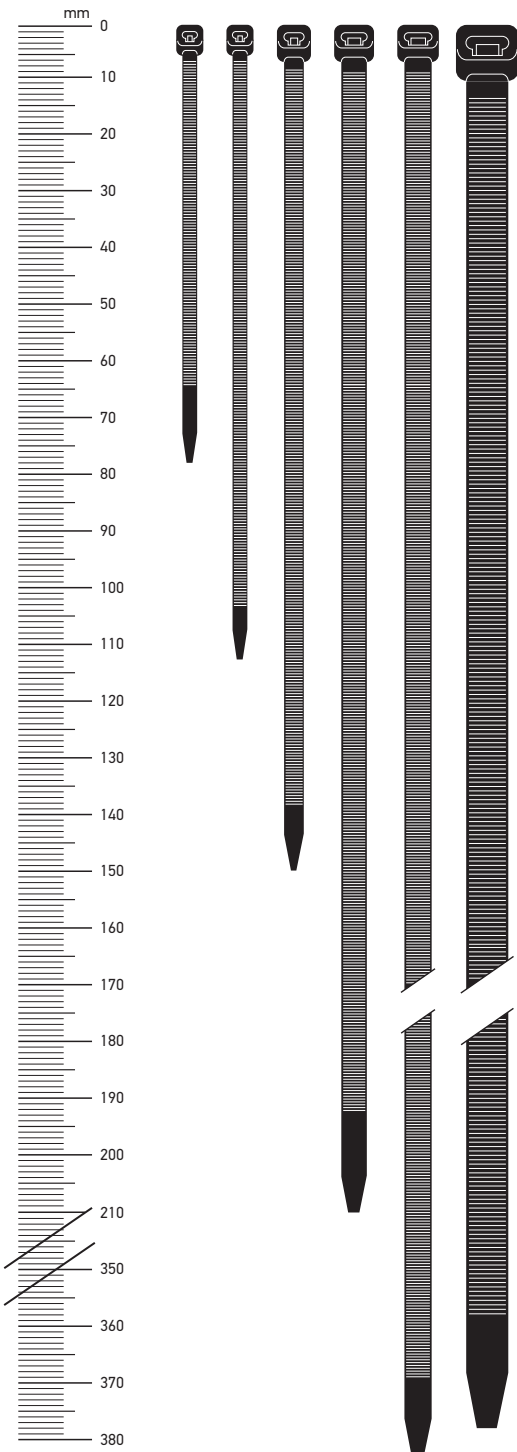
Flame-retardant PVC Electrical Insulation Tape, complying with British standards BS3924 31/90Tp, BS3J10, BS3887 (1985) Part 2 Category 1 and IEC 454-3-1.

Part Numbers	8321	10m	■ RED	18MM X 10M
		8323	20m	■ RED
Voltage	8.0kV (1 minute proof test 6.0kV)			
Conductivity	Less than 2m S/m			
Insulation Resistance	107 megohms			
Electrical Properties	Rapid Breakdown			
Size	Tape Thickness 0.145mm – tensile strength at break 26N/cm.			



Nylon Cable Ties

100% 6/6 nylon cable ties. Very flexible locking latch. Bell-mouthed head allows easier threading than previous ties. Strongest possible locking power without damaging the serrations of the tie. Quick fastening and simple locking mechanism. Black ties are UV resistant.



WHITE CABLE TIES

Quantity 100 Per Pack	Length	Width
8341	78mm	2.5mm
8342	103mm	2.5mm
8343	143mm	3.2mm
8344	191mm	4.5mm
8345	368mm	4.8mm
8346	378mm	7.6mm

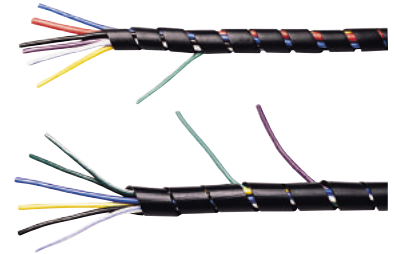
BLACK UV RESISTANT CABLE TIES

Quantity 10 Per Pack	Quantity 100 Per Pack	Length	Width
8341UV		78mm	2.5mm
	8342UV	103mm	2.5mm
8333UV	8343UV	143mm	3.2mm
8334UV	8344UV	191mm	4.5mm
8335UV	8345UV	368mm	4.8mm
8336UV	8346UV	378mm	7.6mm

Cable Wraps

Manufactured from moisture-resistant black polyethylene. Stable to a temperature of 100°C.

CONVOLUTED SPLIT TUBING				
Part Numbers	Internal Diameter	Contents	Length	Wrapping Range
8347	6mm	1	10m	6 to 18mm
8348	12mm	1		12 to 35mm



Manufactured from black polypropylene. Temperature Range: -20°C to +60°C

CONVOLUTED SPLIT TUBING			
Part Numbers	Internal Diameter	Contents	Length
8351	7mm	1	10 metres
8356			30 metres
8349	10mm	1	10 metres
8357			30 metres
8350	13mm	1	10 metres
8358			30 metres
8352	16mm	1	10 metres
8353	20mm	1	10 metres
8355	25mm	1	3 metres



Heat Shrink Tubing Assortment

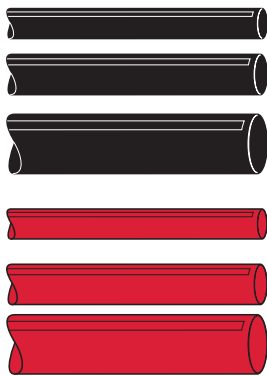
Assortment of 12 x 200mm lengths of Heat-Shrink Tubing ranging from 3.2mm to 6.4mm diameter.



Part Number	8379	HEAT SHRINK TUBING	
Content	Diameter	Colour	
	2 x 3.2mm	■ BLACK	
	2 x 4.8mm		
	2 x 6.4mm		
	2 x 3.2mm	■ RED	
	2 x 4.8mm		
2 x 6.4mm			









Heat Shrink Tubing Assortment

Assortment of 12 x 200mm lengths of Heat-Shrink Tubing ranging from 9.5mm to 19mm diameter.



Part Number	8380	HEAT SHRINK TUBING	
Content	Diameter	Colour	
	2 x 9.5mm	■ BLACK	
	2 x 12.7mm		
	2 x 19.0mm		
	2 x 9.5mm	■ RED	
	2 x 12.7mm		
2 x 19.0mm			

Heat Shrink Tubing Assortment

HEAT SHRINK TUBING - ASSORTMENT					
Part Numbers	TYPE	Pre - Shrunk Diameter	Shrunk Diameter	Length	Colour
8361	BLISTER PACK 	2.4mm	1.2mm	1.2mm	■
8371					■
8362	BLISTER PACK 	3.2mm	1.6mm	1.2mm	■
8372					■
8363	BLISTER PACK 	4.8mm	2.4mm	1.2mm	■
8374					■
8364	BLISTER PACK 	6.4mm	3.2mm	1.2mm	■
8374					■
8365	BLISTER PACK 	9.5mm	4.8mm	1.2mm	■
8375					■
8366	BLISTER PACK 	12.7mm	6.4mm	1.2mm	■
8376					■
8367	BLISTER PACK 	19 mm	9.5mm	1.2mm	■
8377					■
8368	BLISTER PACK 	25.4mm	12.7mm	1.2mm	■
8378					■



Cable Stripper/Cutter

Self-adjusting Cable End Stripper and Cutter. Suitable for cables ranging from 1mm² to 6mm² cross-sectional area.



Part Number	8275
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Cable Cutter

High-quality Cable Cutter suitable for copper cable up to 70mm² cross-sectional area. Cleanly cuts finely stranded battery and welding cables used in automotive applications. Length of 195mm ensures adequate leverage for ease of cutting.



Part Number	8277
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Cable Tie Gun

Nylon Tie Tension and Cutting Tool. Suitable for cable ties ranging from 2.2mm to 4.8mm width.



Part Number	8278
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Part Number	8279
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Cable Tie Gun - Automatic Cut

Durable Nylon Tie Gun with automatic cut-off. Suitable for cable ties ranging from 2.2mm to 4.8mm width.



Part Number	8299
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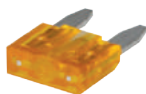
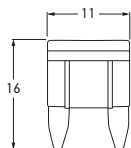
Cable Tie Gun Heavy Duty, Automatic Cut

Robust Nylon Cable Tie Gun featuring automatic cut-off and adjustable tension for maximum durability and extended service life. Suitable for heavy-duty cable ties ranging from 3.6mm to 9mm width.



Mini Blade Fuses (ATN)
- Pack of 10

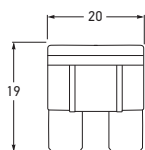
10 popular Blade Fuses – ideal for the glove box.



Part Numbers	8771MINI	BLISTER PACK	TAN	5A
	8772MINI	BLISTER PACK	BROWN	7.5A
	8773MINI	BLISTER PACK	RED	10A
	8774MINI	BLISTER PACK	BLUE	15A



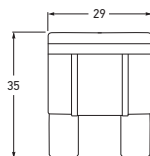
Standard Blade Fuses (ATS)
- Pack of 10



Part Numbers	8771	BLISTER PACK	TAN	5A
	8772	BLISTER PACK	BROWN	7.5A
	8773	BLISTER PACK	RED	10A
	8774	BLISTER PACK	BLUE	15A
	8775	BLISTER PACK	YELLOW	20A
	8776	BLISTER PACK	WHITE	25A
	8777	BLISTER PACK	GREEN	30A



Maxi Blade Fuses (ATM)
- Single Pack



Part Numbers	8790	BLISTER PACK	YELLOW	20A
	8791	BLISTER PACK	GREEN	30A
	8792	BLISTER PACK	ORANGE	40A
	8793	BLISTER PACK	RED	50A
	8794	BLISTER PACK	BLUE	60A
	8796	BLISTER PACK	BROWN	70A
	8795	BLISTER PACK	WHITE	80A



LED Fuse Puller/Tester

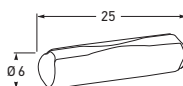
Part Number	9.HM4993
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Tool for testing and removal of blade fuses.



FUSES AND CIRCUIT BREAKERS

Ceramic Fuses - 6AC Pack of 10

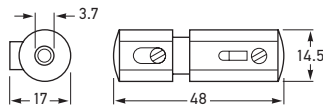


Part Numbers	8750	BLISTER PACK	WHITE	8 AMP
	8753	BLISTER PACK	BLUE	16 AMP
	8751	BLISTER PACK	RED	25 AMP



Fuse Holder - 1 Fuse

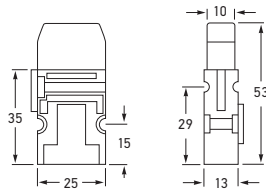
Bayonet-lock Fuse Holder complete with 8A 6AC fuse.



Part Number	8717
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Single Blade Fuse Holder

30 Amps maximum. May be interlocked face to face or end to end. Complete with transparent dust cover lid and snap-in terminals.

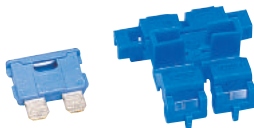


Part Number	8718
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Cable Suitable for cable up to 2.90mm² cross sectional area.

Single In-line Blade Fuse Holder

20 Amps maximum. Complete with 15A blade fuse. Quick connect type, manufactured by 3M - U.S.A.



Part Number	8719
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Cable Suitable for cable up to 1.84mm² cross sectional area.

Garage & Auto Electrical Fuse Assortment Kit

100 of the most popular blade and ceramic fuses.

Part Number	8778	Colour	Quantities
Content	8771	Tan Blade 5A	10
	8772	Brown Blade 7.5A	10
	8773	Red Blade 10A	10
	8774	Blue Blade 15A	10
	8775	Yellow Blade 20A	10
	8776	White Blade 25A	10
	8777	Green Blade 30A	10
	8750	White Ceramic 8A	10
	8751	Red Ceramic 25A	10
	8753	Blue Ceramic 16A	10



Motorist Mini- Fuse Assortment (ATS) - Pack of 10

10 popular mini blade fuses

Part Number	8779MINI	Colour	Quantities
Content	8771MINI	Tan Blade 5A	1
	8772MINI	Brown Blade 7.5A	1
	8773MINI	Red Blade 10A	2
	8774MINI	Blue Blade 15A	2
	8775MINI	Yellow Blade 20A	2
	8776MINI	White Blade 25A	1
	8777MINI	Green Blade 30A	1



Motorist Fuse Assortment (ATS) - Pack of 10

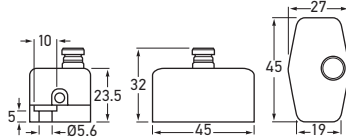
10 popular Blade Fuses – ideal for the glove box.

Part Number	8779	Colour	Quantities
Content	8772	Brown Blade 7.5A	1
	8773	Red Blade 10A	2
	8774	Blue Blade 15A	2
	8775	Yellow Blade 20A	2
	8776	White Blade 25A	2
	8777	Green Blade 30A	1



Fuse Box - 1 Fuse

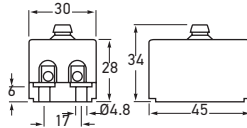
Bakelite housing completed with 1 x 8A 6AC fuse.



Part Number	8700
Number of Fuses	1
Fuse Type	8A 6AC

Fuse Box - 2 Fuses

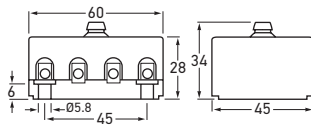
Black housing base completed with transparent snap-fit lid and 2 X 8A 6AC fuses.



Part Number	8702
Number of Fuses	2
Fuse Type	8A 6AC

Fuse Box - 4 Fuses

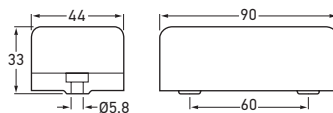
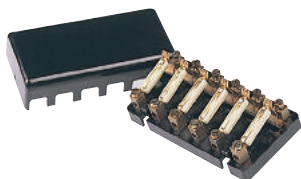
Black housing base completed with transparent snap-fit lid and 4 X 8A 6AC fuses.



Part Number	8706
Number of Fuses	4
Fuse Type	8A 6AC

Fuse Box - 6 Fuses

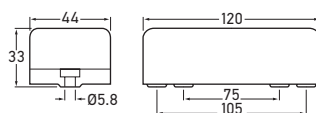
Bakelite housing completed with 6 x 8A 6AC fuses,



Part Number	8710
Number of Fuses	6
Fuse Type	8A 6AC

Fuse Box - 8 Fuses

Bakelite housing completed with 8 x 8A 6AC fuses.

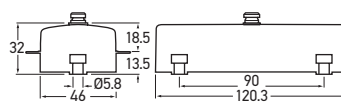


Part Number	8712
Number of Fuses	8
Fuse Type	8A 6AC



Blade Fuse Box - 8 Fuses Weatherproof

Black plastic housing with transparent snap-fit lid and 8 x 8A 6AC fuses. Flat plug connections.

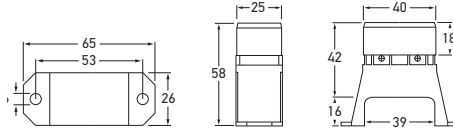


Part Number	2756
Number of Fuses	8
Fuse Type	8 x 8A 6AC



Blade Fuse Box - 4 Fuses

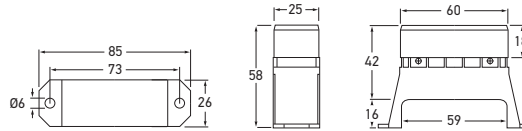
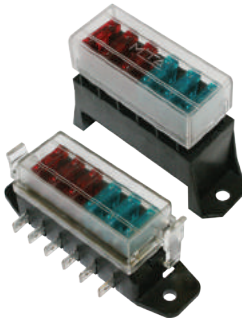
Black plastic housing with transparent snap-fit lid. Flat plug connections.



Part Number	8720
Number of Fuses	4
Fuse Type	2 x 10A 2 x 15A

Blade Fuse Box - 6 Fuses

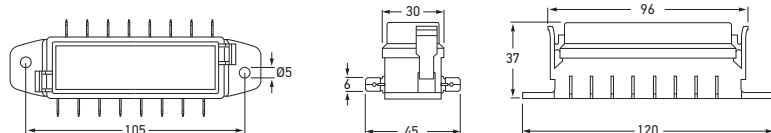
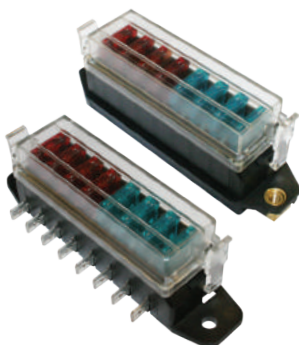
Black plastic housing with transparent snap-fit lid. Flat plug connections.



Part Number	8721
Number of Fuses	6
Fuse Type	3 x 10A 3 x 15A

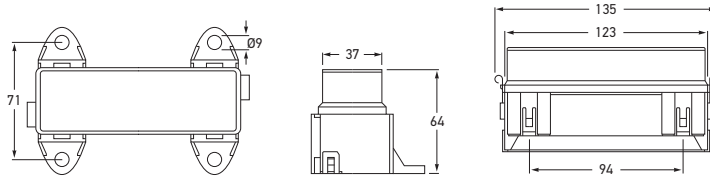
Blade Fuse Box - 8 Fuses

Black plastic housing with transparent snap-fit lid. Flat plug connections.



Part Number	8722
Number of Fuses	8
Fuse Type	4 x 10A 4 x 15A

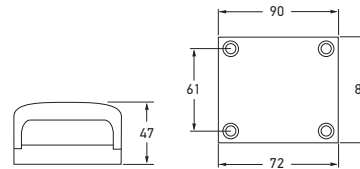
ACCESSORIES



Part Number	8724
Number of Fuses	16
Fuse Type	6 x 10A 6 x 15A 2 x 20A 2 X 25A

Blade Fuse Box - 16 Fuses

16-way Fuse Box featuring black plastic housing with secondary locks, transparent cover and sealing gasket. Supplied with mounting brackets (male and female).



Part Number	8725
Number of Fuses	6
Fuse Type	3 x 10A 3 x 15A

Blade Fuse Box - 6 Fuses

Black plastic housing with transparent snap-fit lid and 6.3mm male blade terminals. 6mm diameter stud input. Complete with 2 spare fuse holders and label set.



Automatic Circuit Breakers 12 Volt DC

Automatic "Type I" Circuit Breaker with mounting bracket. Unit cycles and continuously re-sets until the overload is corrected, which makes it ideal for lighting and braking circuits as the complete function remains unimpaired at all times.



Part Numbers	8780	12V DC	10A
	8781	12V DC	15A
	8782	12V DC	20A
	8783	12V DC	25A
	8784	12V DC	30A
	8785	12V DC	40A
	8786	12V DC	50A

Dimensions 50.80mm x 19.81mm x 34.97mm

Automatic Circuit Breakers 24 Volt DC

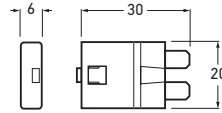
Automatic "Type I" Circuit Breaker with mounting bracket. Unit cycles and continuously re-sets until the overload is corrected, which makes it ideal for lighting and braking circuits as the complete function remains unimpaired at all times.



Part Numbers	8787	24V DC	15A
	8788	24V DC	20A
	8789	24V DC	30A

Dimensions 50.80mm x 19.81mm x 34.97mm

**Manual- Reset Circuit Breakers
28 Volts DC**



Part Numbers	8730	10 - 28V DC	6A
	8731	10 - 28V DC	8A
	8732	10 - 28V DC	10A
	8733	10 - 28V DC	15A
	8734	10 - 28V DC	20A
	8735	10 - 28V DC	25A

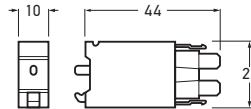
Voltage Max. 28V DC (Min 10V DC)

Mounting	Blade Fuse replacement
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Miniaturised manual-reset, single-pole thermal Circuit Breaker for automotive fuse block installation as a replacement for standard blade fuses. Designed to suit extra-low-voltage wiring systems on all types of vehicles and marine craft.



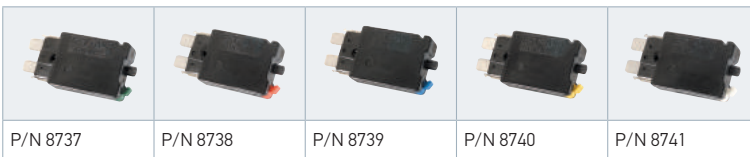
**Circuit Breakers - Standard Blade
Fuse Replacement**



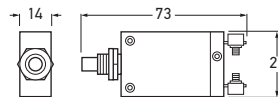
Part Numbers	8736	■ PURPLE	3A
	8737	■ GREEN	6A
	8738	■ RED	10A
	8739	■ BLUE	15A
	8740	■ YELLOW	20A
	8741	■ WHITE	25A

Voltage Max. 28V DC (Min. 10V DC)

Compact single pole, heavy duty thermal circuit breakers with push-to-reset mechanism and separate (colour coded) manual release for extra low voltage wiring systems on all types of vehicles and marine craft. Fitted with blade terminals for plug-in mounting and retaining clips and ribs for increased pull-out force and vibration resistance. Ideal replacement for blade fuses in heavy duty applications.



**Manual- Reset Circuit Breakers
28 Volts DC - Screw Connection**



Part Numbers	8742	10 - 28V DC	10A
	8743	10 - 28V DC	20A
	8744	10 - 28V DC	25A
	8745	10 - 28V DC	30A
	8746	10 - 28V DC	35A

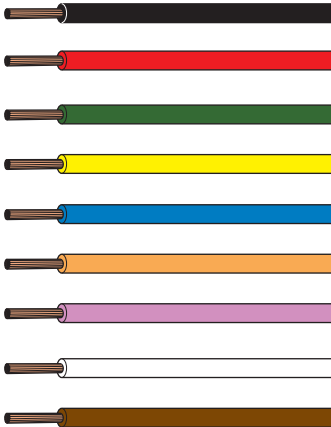
Voltage Max. 28V DC (Min 10V DC)

Mounting	Fitted with moulded thread neck (10mm dia.) for panel mounting
----------	--

Manual-reset, single-pole thermal Circuit Breaker with push-to-reset mechanism and screw terminals for extra-low-voltage systems.

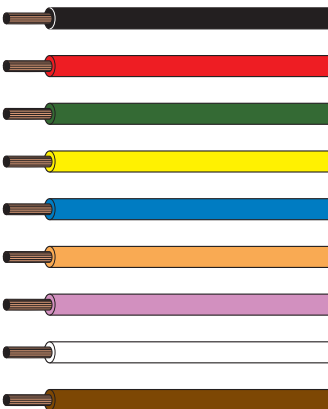


Single Core Automotive Cable
- 3mm



Part Numbers	8800	■ BLACK
	8801	■ RED
	8802	■ GREEN
	8803	■ YELLOW
	8804	■ BLUE
	8805	■ ORANGE
	8806	■ VIOLET
	8807	■ WHITE
	8808	■ BROWN
Cable Diameter	3mm	
Strand No./Dia.	14/0.32mm	
Conductor Cross Section Area	1.13mm ²	
Length	30m	

Single Core Automotive Cable
- 4mm



Part Numbers	8810	■ BLACK
	8811	■ RED
	8812	■ GREEN
	8813	■ YELLOW
	8814	■ BLUE
	8815	■ ORANGE
	8816	■ VIOLET
	8817	■ WHITE
	8818	■ BROWN
Cable Diameter	4mm	
Strand No./Dia.	23/0.32mm	
Conductor Cross Section Area	1.84mm ²	
Length	30m	

Single Core Automotive Cable
- 5mm

Part Numbers	8820	■ BLACK
	8821	■ RED
	8822	■ GREEN
	8823	■ YELLOW
Cable Diameter	5mm	
Strand No./Dia.	36/0.32mm	
Conductor Cross Section Area	2.90mm ²	
Length	30m	



Single Core Automotive Cable
- 6mm

Part Numbers	8825	■ BLACK
	8826	■ RED
	8827	■ GREEN
	8828	■ YELLOW
Cable Diameter	6mm	
Strand No./Dia.	57/0.32mm	
Conductor Cross Section Area	4.59mm ²	
Length	30m	



Single Core Automotive Cable
- Double Insulated

Part Numbers	8850	4MM CABLE
	8851	6MM CABLE
Strand No./Dia.	8850 - 23/0.32mm	8851 - 57/0.32mm
Conductor Cross Section Area	8850 - 1.84mm ²	8851 - 4.59mm ²
Length	30m	



2 Core Speaker Cable



Part Number	8834
Cable Diameter	2.5mm
Strand No./Dia.	2 x 24/0.2mm
Conductor Cross Section Area	0.75mm ²
Length	100m

2 Core Figure 8 Cable



Part Numbers	8840	8845
Cable Diameter	3mm	4mm
Strand No./Dia.	2 x 14/0.32mm	2 x 23/0.32mm
Conductor Cross Section Area	1.13mm ²	1.84mm ²
Length	30m	30m

2 Core Sheathed Cable



Part Numbers	8846	8847	8848	8849
Cable Diameter	3mm	4mm	5mm	6mm
Strand No./Dia.	2 x 14/0.32mm	2 x 23/0.32mm	2 x 36/0.32mm	2 x 57/0.32mm
Conductor Cross Section Area	1.13mm ²	1.84mm ²	2.90mm ²	4.59mm ²
Length	30m			

5 Core Cable

Part Number	8832
Cable Diameter	2.5mm
Strand No./Dia.	5 x 8/0.32mm
Conductor Cross Section Area	0.64mm ²
Length	30m



7 Core Cable

Part Number	8833
Cable Diameter	2.5mm
Strand No./Dia.	7 x 8/0.32mm
Conductor Cross Section Area	0.64mm ²
Length	30m





HELLA Workshop

HELLA offers a comprehensive range of high quality inspection lamps and testing equipment that is designed to meet the needs of discerning do-it-yourself and professional technicians.





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LED Inspection Lamps – Functional and Durable

HELLA LED Inspection Lamps have been designed with the workshop in mind. With high power efficient LEDs providing evenly spread natural light; a range of styles designed for a variety of situations; and construction to last – HELLA Inspection Lamps will become your most valued work place tool.

- High power LEDs.
- Easy to use.
- Impact and shock resistant.
- Natural light – colour similar to daylight.
- Low current consumption, high efficacy.
- Strong, sturdy and resistant to water, oil and chemicals.



LED Inspection Lamp – UniPen

Multifunctional Pocket sized Rechargeable COB LED Strip Inspection Lamp. Features a strong magnetic base, and a flexible 180° head for powerful uniform lighting at any angle. The small and handy shape of the Unipen makes it perfect to always have “on hand”.



Part Number	2XM 910 602-001	
Light Output	Main:	80 lumens for up to 2.5 hours.
	Spot (top):	50 lumens for up to 2.5 hours.
Light Performance	Main:	100 lux @ 0.5m
	Spot (top):	340 lux @ 0.5m
Temperature Range	-10° to +40°C	
Protection	IP 20	
Dimensions	164 mm x 47mm x 31mm	
Battery	3.7V/750 mAh Li-ion rechargeable. 3 hour charging time via USB.	
Note	Unipen is only supplied with a USB charging cable. Charger is not included.	



Strong built-in magnet



180° flexible head

LED Inspection Lamp – Miniform

Multifunctional pocket-sized rechargeable LED Inspection Lamp. Features a strong magnetic base, retractable swivel hook and a flexible 180° head for powerful uniform lighting at any angle. Complete with 240V charger.



Part Number	2XM 910 415-001
Light Output	110 lumens for up to 3 hours.
Light Performance	250 lux @ 0.5m
Temperature Range	-10° to +40°C
Protection	IP 20
Dimensions	120mm x 59mm x 16mm 120mm x 59mm x 25mm (with belt Clip / hook)
Battery	3.7V/1200 mAh Li-ion rechargeable. 2.5 hour charging time.



Retractable swivel hook



180° flexible head

LED Inspection Lamp – Uniform

Rechargeable LED Inspection Lamp featuring rubber housing, intelligent battery indicator, swivel hook and magnetic-based charging unit. Delivers a powerful and uniform light output. Complete with 240V charger.



Part Number	2XM 910 412-001
Light Output	Stage 1: 100 lumens for up to 6 hours. Stage 2: 200 lumens for up to 3 hours.
Light Performance	Stage 1: 250 lux @ 0.5m Stage 2: 450 lux @ 0.5m
Temperature Range	-10° to +40°C
Protection	IP 65 (Protection against dust and water jets)
Dimensions	63mm x 190mm x 38mm
Battery	3.7V/2200 mAh Li-ion rechargeable. 4 hour charging time.



Shown in charger



180° flexible head

LED Magnetic Inspection Lamp – Mag 3

High Power Rechargeable LED Inspection Lamp and Torch. Features 3 strong magnets, 2 swivel hooks, and a 180° flexible head for powerful lighting at any angle. Complete with 240V charger.



3 magnets and 2 swivel hooks



180° flexible head

Part Number	2XM 910 413-001	
Light Output	Main:	240 lumens for up to 3 hours.
	Spot (top):	60 lumens for up to 8 hours.
Light Performance	Main:	400 lux @ 0.5m
	Spot (top):	800 lux @ 0.5m
Temperature Range	-10° to +40°C	
Protection	IP 20	
Dimensions	56mm x 250mm x 45mm	
Battery	3.7V/2100 mAh Li-ion rechargeable. 4 hour charging time.	
Accessory	2XM 910 423-001	Car adapter 12-24V ①



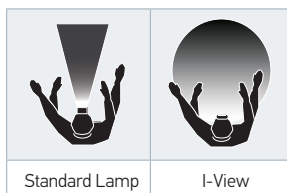
① 2XM 910 423-001

LED Inspection Lamp – I-View

By only waving your hand in front of the lamp, you will turn on the light when needed and when the lamp is set on sensor mode, the light can easily be switched on/off, even when wearing gloves. By using the newest battery technology, there is simply no need for extra battery supplies, making your job more efficient.



Part Number	2XM 910 601-001	
Light Output	LO - 80 lumens for up to 6 hours.	HI - 160 lumens for up to 3 hours.
Light Performance	LO - 300 lux @ 0.5m	HI - 500 lux @ 0.5m
Temperature Range	-10° to +40°C	
Protection	IP 65 (Protection against dust and water jets)	
Dimensions	125mm x 95mm x 75mm	
Battery	3.8/1600 mAh Li-polymer. 4 hour charging time via USB.	
Note	I-View is supplied with a USB charging cable and charger.	



Standard Lamp

I-View

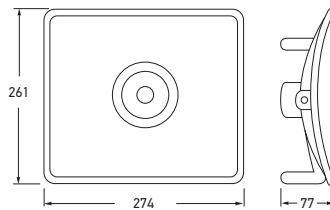


Touchless sensor switch on/off technology

LED Work Lamps – Functional and Durable

LED Work Lamps – Functional and Durable
 HELLA Nova LED Work Lamps have been designed with the workshop in mind. With high-power efficient LEDs providing diffused natural light; a range of styles designed for a variety of situations; and construction to last – HELLA Work Lamps will become your most valued workplace tool.

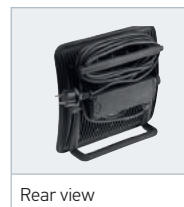
- Ultra High Power LEDs
- Easy to use
- Lifetime of at least 50,000 hours
- Resistant to shocks and blows
- Natural light – similar to daylight
- Light output up to 20 times stronger than traditional LEDs
- Low current consumption, high efficacy
- Strong, sturdy and resistant to water, oil and chemicals



LED Work Lamp – Nova 50

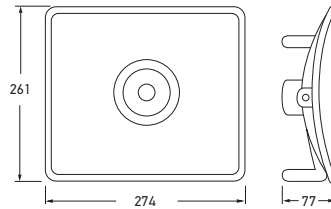
Extremely durable with a long-life LED. Approximately 30% more light output than NOVA 30W. Ideal for large work sites requiring an extremely powerful Work Lamp. The compact design is shockproof and practically “unbreakable”. The body is made of die-cast aluminium and has a strong protective rubber frame. The lamp is waterproof (IP67) and suitable for dirty environments. For indoor and outdoor use in all types of weather. Includes flexible stand which can also be used as a hanger. The high quality cable can be wound around the handle for storage.

Part Number	2XM 910 426-011	
Light Output	5000 lumens.	
Light Performance	8000 lux @ 0.5m	
Power Consumption	55W	
Temperature Range	-10° to +40°C	
Voltage	240V AC/50Hz	
Protection	IP 67 (Protection against dust and water splash)	
Cable Length	Pre-wired with 5m of cable.	
Spare Parts	2XM 910 529-031	Nova Dual Bracket
	2XM 910 529-021	Nova Single Bracket
	2XM 910 529-001	Nova Tripod
	2XM 910 531-001	Nova 30/50 Rubber Strip



LED Work Lamp – Nova 30

Extremely durable, shockproof and innovative high-output 30W COB LED Work Lamp for the professional workshop. Features protective rubber frame and flexible stand that allows for angle adjustment and suspension. Extreme durability, IP67 waterproof and practical slimline design make this the 'work lamp for a lifetime'



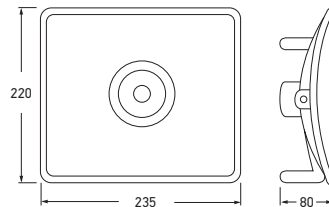
Part Number	2XM 910 426-001	
Light Output	3300 lumens.	
Light Performance	5000 lux @ 0.5m	
Power Consumption	30W	
Temperature Range	-10° to +40°C	
Voltage	240V AC/50Hz	
Protection	IP 67 (Protection against dust and water splash)	
Cable Length	Pre-wired with 5m of cable.	
Spare Parts	2XM 910 529-031 2XM 910 529-021 2XM 910 529-001 2XM 910 531-001	Nova Dual Bracket Nova Single Bracket Nova Tripod Nova 30/50 Rubber Strip



Rear view

LED Work Lamp – Nova 20 C+R

Enjoy the flexibility of a powerful cordless/ corded Work Lamp. For a variety of indoor or outdoor uses (e.g camping or fishing) where there is limited or no access to electricity. NOVA 20 C+R can be used as a cordless rechargeable light or plugged into a power source using the 5m cable. Two light modes are available: The first provides 800 lumens, the second 1500 lumen with an operation time of 6h and 3h, respectively when fully charged.



Part Number	2XM 910 528-011	
Light Output	LO - 800 lumens for up to 6 hours. HI - 1500 lumens for up to 3 hours.	
Light Performance	LO - 1700 lux @ 0.5m HI - 3000 lux @ 0.5m	
Power Consumption	20W	
Battery	Inbuilt rechargeable for up to 3 hours HI and 6 hours LO.	
Temperature Range	-10° to +40°C	
Voltage	240V AC/50Hz	
Protection	IP 67 (Protection against dust and water splash)	
Cable Length	5m charging cable.	
Spare Parts	2XM 910 529-031 2XM 910 529-021 2XM 910 529-001 2XM 910 531-001	Nova Dual Bracket Nova Single Bracket Nova Tripod Nova 30/50 Rubber Strip



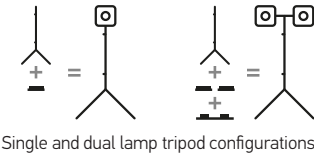
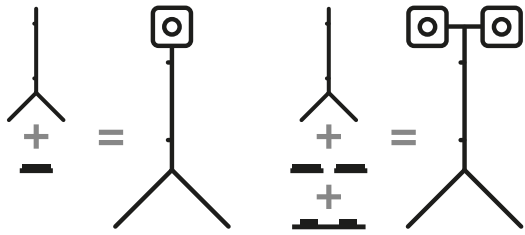
Side view

Part Number	2XM 910 529-001
Weight	4.20kg
Dimensions	Ø180mm x 1100mm when folded.

Nova Tripod

High Stability Tripod for the Nova Lamp Range. Adjustable in height from 1 to 2.4 metres. Folds for easy transport to 180mm x 1100mm. Respective Nova Single Brackets required to mount Nova Lamps to the Nova Tripod
 Dual mounting available with optional Nova Dual Bracket. Just attach respective Nova Single Brackets and lamps to the Nova Dual Bracket (2 Nova Lamps + 2 Single Brackets + 1 Dual Bracket).

Single and dual lamp tripod configurations



Nova Brackets

Single Brackets are suitable for mounting Nova Work Lamps to a wall or to the tripod (ordered separately). Dual Bracket and two Nova 20 or 30/50 Brackets are required to mount two Nova Lamps onto the Tripod.

Part Number	2XM 910 529-011 (Single Bracket for Nova 30/50)
Weight	0.39kg
Dimensions	65mm x 25mm x 245mm

Part Number	2XM 910 529-021 (Single Bracket for Nova 20)
Weight	0.37kg
Dimensions	65mm x 25mm x 225mm

Part Number	2XM 910 529-031 (Dual Bracket)
Weight	1.40kg
Dimensions	50mm x 87mm x 630mm



Single Bracket



Dual Bracket

HELLA LED TECHNOLOGY IN THE PALM OF YOUR HAND

The HELLA Flash Torch Series of LED torches are extremely durable and of exceptional high quality, designed specifically for the professional user. They come with a focus-function emitting a concentrated, focused light beam.

- Three different extremely bright light output levels of up to 300 lumens, illuminating up to 210m.
- Sturdy rubber surface for an ergonomic and safe grip
- Wrist strap and a complimentary belt pouch
- Lens incorporates an adjustable beam angle range from 10-70°, with an extremely bright near-range beam, to a long-distance light beam



Flash 100

A small LED Torch with a powerful 130 lumens light output reaching 125m. Fits easily into a small pocket. Comes with complimentary pouch.



Part Number	2XM 910 530-101
Light Output	130 lumens
Light Performance	800-12000 lux @ 0.5m, up to 7 hours.
Temperature Range	-10° to +40°C
Battery	3 x AAA / 1.5V Alkaline batteries included.
Dimensions	Ø32mm x 111mm
Protection	IP 54 (Protection against dust and water splash)



Flash 100, 200 and 300 all come with a complimentary pouch.



Part Number	2XM 910 530-201
Light Output	200 lumens
Light Performance	800-22000 lux @ 0.5m, up to 3 hours.
Temperature Range	-10° to +40°C
Battery	2 x C / 1.5V Alkaline batteries included.
Dimensions	Ø40mm x 165mm
Protection	IP 54 (Protection against dust and water splash)

Flash 200

A medium LED Torch with a powerful 200 lumens light output reaching 180m. Fits into the glove box of your car. Comes with complimentary pouch.



Part Number	2XM 910 530-301
Light Output	300 lumens
Light Performance	1200-35000 lux @ 0.5m, up to 9 hours
Temperature Range	-10° to +40°C
Battery	3 x C / 1.5V Alkaline batteries included.
Dimensions	Ø42mm x 216mm
Protection	IP 54 (Protection against dust and water splash)

Flash 300

A performance LED Torch with a powerful 300 lumens light output reaching 210m. Fits into the glove box of your car. Comes with complimentary pouch. Extra long battery life.



Part Number	1526
Power Supply	3 x AAAA batteries included.
Min. Service Life	LED > 100,000 hours
Continuous Operation	60 hours

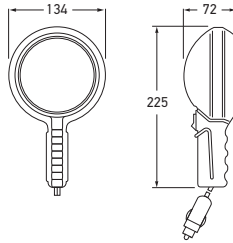
LED Inspection Lamp

Hand-held LED Inspection Lamp featuring high-quality LED light source and flexible extension for optimum illumination of hard to reach areas. Sturdy housing with non-slip surface and flexible steel clip. Equipped with combination on/off and momentary switch.



Hand Held Spot Lamp – Blue Body

Blue Hand Held Long Range Spot Lamp Range. Includes plug, spiral cable (extendable to 2m) and on-off switch.



LONG RANGE HAND HELD SPOT LAMP		
Part Number	1520	12 VOLT
Voltage	12V Sealed Beam included.	
Power Consumption	100W	
Spare Parts	1089 9.1520.06 9.1520.07	Sealed Beam Switch - on-off ① Spiral Cable



① 9.1520.06

Hand Held Spot Lamp – Black Body

Black Hand Held Long Range Spot Lamp. Includes plug, spiral cable (extendable to 2m) and momentary pressure contact on-off switch.



LONG RANGE HAND HELD SPOT LAMP		
Part Number	1524	12 VOLT
Voltage	12V Sealed Beam included.	
Power Consumption	100W	
Spare Parts	1089 9.1524.06 9.1520.07	Sealed Beam Switch - momentary ① Spiral Cable



① 9.1524.06

Spiral Cable Complete Plug

Plug and 2m extendable sheathed cable.



Part Number	9.1520.07
To Suit	P/Ns 1520, 1524 and 1525.

Circuit Tester

Circuit Tester for quick fault tracing in vehicle electrical systems. Sturdy metal construction with screw-off cap and testing needle.

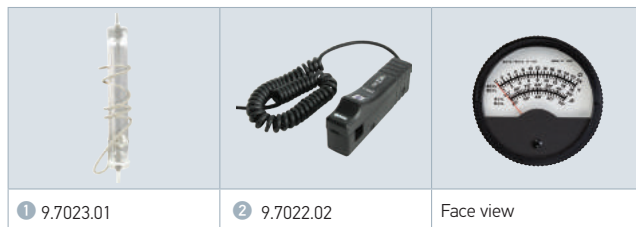
Part Number	7013
Globe to Suit	24V (M243)
Suits	6, 12 and 24V applications



Timing Light/Analyser

Timing Light/Analyser for all 4, 5, 6 and 8-cylinder engines with stroboscope, dwell-angle meter, rev-counter and voltmeter with voltage tester (0-16V). Enables adjustment timing whilst simultaneously measuring the engine speed. Features corrosion and impact resistant housing and inductive clamp. Suitable for 12V DC electrical systems with standard or transistorised ignition.

Part Number	7022	12 VOLT
Voltage	0-16V DC	
Dwell	4 cyl - 30°-90°	6 cyl - 0°-60°
RPM	4 cyl - 0-2400	6 cyl - 0-1600
Timing	Ignition timing and advance function.	
Spare Parts	9.7023.01	Xenon Flash Tube ①
	9.7022.02	Inductive Clamp ②



Timing Light

Timing Light with stroboscope for precise timing adjustment of all petrol engines. Features corrosion and impact resistant housing and inductive clamp.

Part Number	7023	12 VOLT
Spare Parts	9.7023.01	Xenon Flash Tube ①
	9.7022.02	Inductive Clamp ②



Compression Tester

For spark-plug holes of either 14 or 18mm diameter. Diagnosing different cylinder compression values early enough prevents possible later engine damage.



Part Number	7026
Test Range	0-21 bar (0-300psi)

Battery Acid Tester

Handy and robust instrument for professional measurement of the battery charge and acid density in lead batteries. A new suction system design prevents bubbles from forming and keeps the liquid to be tested from flowing back. The precision measuring unit can be rotated 360° allowing measurement regardless of the position of the unit.



Part Number	7036
Measuring Tolerance	Less than +/- 1%

Anti-Freeze Tester

Professional Tester for measuring the freezing point of the water in automobile cooling systems. The new suction system design prevents bubbles from forming and keeps water from flowing back.

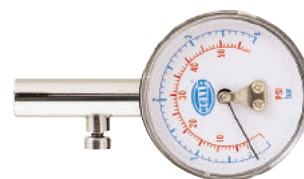


Part Number	7037
Measuring Tolerance	Less than +/- 1%.
Does not measure Glycol concentration. Measures freezing point depression of Glycol-based coolant.	

Tyre Pressure Gauge – Chrome

Tough all-metal chrome-plated housing, with pressure-release valve. Easy-to-read scale in bars and psi. Supplied with sturdy protective case.

Part Number	7039
Test Range	0-4 bars (0-56psi)



Tyre Pressure Gauge – Black

Black plastic housing with pressure-release button and angled connection piece for valves which are difficult to reach. Easy-to-read scale in bars and psi.

Part Number	7040
Test Range	0-3.9 bars (0-55 psi)



Hour Meter

Visual mechanism to indicate operation. Quick and easy to mount with attached metal bracket. Suitable for 12V to 60V DC (24MA).

Part Number	7050
Face Diameter	60mm
Mounting	52mm dia. opening





The HELLA Headlamp Aimer is a precision workshop instrument designed to accurately check vehicle headlamps. It was developed especially for use in professional workshops and vehicle testing stations.

HELLA BEAMSETTERS

Precision Headlamp Adjustment. The importance of regular checking and re-adjustment of headlamps emerges clearly from the fact that about 33% of all vehicles coming in for this service have incorrectly adjusted headlamps. In about half these cases the headlamp beams are too high and dazzle oncoming traffic, while in the remaining cases the headlamps are too low or point left or right, reducing the driver's field of vision and driving safety

The HELLA Headlamp Aimer provides high accuracy in lighting checks and is also able to test the latest in new technology headlamps. The beamsetter box, the heart of the unit, is constructed of impact and corrosion resistant material that withstands even aggressive fluids used in workshops.

Its functional design allows quick, precise and simple headlamp adjustment. Precision workshop instrument with wide-band sight aligner for quick and precise checking and setting of headlamps, auxiliary driving and fog lamps on all vehicles. Unit features sturdy base, large viewing screen and a combination volt and light output meter. Easy height adjustment.

Features include:

- Wide band sight aligner.
- Combination volt and light output meter.
- Sturdy base.
- Large viewing screen.
- Easy height adjustment.
- Spare parts availability.

HELLA Beamsetter

Standard Beamsetter with digital voltage and lux readings.

Part Number	SEG 700L
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Digital indication of illuminance.





Automotive Globes

HELLA's automotive globes are renowned for their uncompromising adherence to the highest quality and safety standards.





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SUPERIOR ILLUMINATION

HELLA offers the most comprehensive range of automotive globes to suit almost any function, from passenger vehicle to heavy duty applications. The range includes incandescent, halogen and HID globes.



At HELLA, we have been designing, developing and manufacturing automotive lighting solutions since the motorcar was first produced. Today HELLA automotive globes are renowned for their uncompromising adherence to the highest quality and safety standards. There's a HELLA globe to suit almost every requirement.

Incandescent Globes

Incandescent globes produce light when an electric current passes through a thin filament, heating it and causing it to emit light. Incandescent globes become progressively dimmer over the course of their service life; heating the filament results in its erosion, vapour from this erosion condenses on the cooler glass and reduces transmission through the glass casing.

Halogen Globes

Halogen globes contain a gas mixture which consists of halogen compounds (usually compounds of iodine or bromine). Much like the incandescent globe, light is produced by passing a current through a tungsten filament, heating it which causes it to emit light. When particles burn off the filament, they are returned by a chemical process assisted by the halogen in the globe. This results in a relatively consistent brightness over the course of the globe's service life. Halogen globes are approximately 50% more efficient than an incandescent globe.

Xenon Gas Discharge Globes

Xenon globes produce light when an electric arc is ignited between two electrodes and subsequently passes through Xenon gas. This technology is significantly more energy efficient than the incandescent or the halogen globe. The colour temperature emitted is comparable to daylight. As the human eye has evolved to see in daylight, Xenon lighting causes less eye strain than other globe types, making it a more convenient and safer night lighting option. Xenon based forward lighting further assists safe driving at night by increasing the reflections of road signs and markings.

Advantages of Xenon Lighting

- Over twice the light output compared to standard halogen globes.
- 77% less power consumption than standard halogen globes.
- Light colour very similar to daylight – reduces strain on the eye.
- Steady brightness levels even if power supply varies.
- Impact and vibration resistant light arc ensures a globe service life five times longer than standard globes.

Maximising Globe Life

To maximise the operational life of an automotive globe there are some important points to consider.

Rule of Thumb:

- 5% overvoltage halves the globe life.
- Headlamp globes are rated at 13.2 volts. Signal and marker globes are rated at 13.5 volts.
- The light output of a tungsten filament light source is dependent on voltage.
- Low voltage causes low output and lower operational life of halogen globes as regeneration does not occur.
- Overvoltage causes excessive tungsten erosion and significantly shortens globe life.



Plus100 LongLife (24 Volt)

Plus100 LongLife globes are a new generation of high-performance halogen globes specifically designed to cope with the heavy duty demands of 24 volt heavy commercial transport applications.

Utilising innovative single-coil filaments, Plus100 LongLife halogen globes offer significantly increased service life of up to 100% when compared to standard halogen globes. They also feature superior vibration resistance during extended periods of operation, leading to reduced vehicle servicing costs and downtime.

In addition to extended service life and improved durability, Plus100 LongLife halogen globes provide up to 100% increased illumination of the road ahead when compared to a standard halogen globe. This results in improved vision and clearer visibility of objects and traffic situations in the distance ahead, effectively reducing eyestrain and driver fatigue, adding valuable seconds to driver reaction times for improved night driving safety.

Safe for Modern Headlamps

All halogen globe filaments produce UV radiation. If the glass casing of the globe does not filter the UV radiation it will be harmful to the polycarbonate lenses used on most of today's vehicles.

Excessive UV radiation from the halogen or HID globe will result in discolouration and substantially diminished light transmission of the headlamp lens. All HELLA halogen and HID automotive globes are UV-reduced and are safe for use in modern headlamps with polycarbonate lenses.

Replacement Globes

All ADR certified lamps must be fitted with an ADR approved light source to remain legal, if the light source is replaced.

Most HELLA globes will be marked with an 'E mark' to show compliance. Some globes, to suit older vehicles or imports not originally destined for our market, may have different standards such as JIS (Japanese Industrial Standard). HELLA shows compliant globes under the category column in the globe section

LED Replacement Globes

LED replacement globes are generally illegal for use in marker, signal and headlights as they do not come with a compliance marking.

LIGHT OUTPUT	
Operating Voltage %	Light Output %
85	53
90	67
95	83
100	100

Based on a mean operating voltage of 100% = 13.5V or 28V.

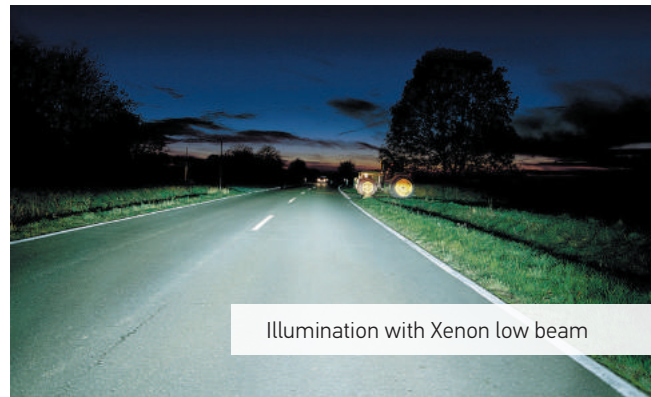
As the operating voltage drops, so does the light output. If voltage drops from 13.5V to 12.8V (-5%) then light output drops to 83%.

Hours of testing ensures a quality product HELLA is renowned for.



XENON GAS DISCHARGE LAMPS

Xenon based front lighting systems are among the best lighting systems available in terms of both quality and quantity.



The Xenon gas discharge, or high intensity discharge (HID) globe illuminates via a light arc that is ignited between two electrodes. This technology requires a complex electronic ballast.

To optimise and maintain a safe lighting system, additional system features are often required e.g. headlamp cleaning systems, automatic headlight range adjustment and levelling systems for ECE type approved systems.

Advantages of Xenon Light Compared to Halogen Globes:

- Over twice the luminous flux (light quantity/light power).
- Superior lamp performance (photometric efficiency).
- Significantly lower power consumption of only 35W (plus 7W for ballast).
- Lower thermal load on the system.
- Considerably longer service life.
- Light colour is closer to daylight.

Additional Regulations for Xenon Low Beam

In the ECE region, headlights with Xenon low beams may only be used in conjunction with automatic or dynamic headlight range adjustment and levelling system as well as a headlight cleaning system. This regulation takes into account the intense luminous performance of the Xenon globe and is designed to ensure the safety of all road users.

How They Work

A sophisticated ballast supplies the ignition voltage required to ignite the gas between two electrodes. This ignition voltage can be up to 30kV in 4th generation ballasts. Inside the globe is a mixture of inert Xenon gas, metals and metal halides, which are ionised upon ignition resulting in a powerful light arc.

During the controlled supply of alternating current (at approx. 400Hz) the liquid and solid substances evaporate, due to high internal temperatures. The lamp only achieves its full brightness after a few seconds when all the components have been ionised. To prevent destruction of the lamp through uncontrolled increases in current, the current is limited by a ballast. Once the full light output has been reached, an operating voltage (not the ignition voltage) of only 85V is necessary to maintain the physical process. The luminous flux, light output, luminance and service life of Xenon HID globes significantly surpasses halogen globes.



P/N XN4000



P/N XN4000CM



P/N XN4001

Fault Diagnosis

Check whether the ballast is attempting to ignite the globe after the light has been switched on. Ignition attempts can be heard clearly near the headlight.

If ignition attempts are unsuccessful, the Xenon globe should be checked by swapping it with one from the other headlight and the process tried again. If no ignition attempt is carried out, the fuse should be checked.

If the fuse is functional, check the voltage and ground supply directly at the ballast. Voltage must be at least 9V for 12V systems. If the voltage ground supplies and the Xenon globes are functional a faulty ballast is likely to be cause of the problem.

Colour Match HID Globes

As HID globes age, the colour temperature increases resulting in a whiter light. When an HID globe is replaced with a new globe it can look yellow compared to the original globe, and will whiten with use. If a white light from installation is desired, a colour match globe may be used which will be a closer match to the older globe from the first use. These globes are ECE and ADR compliant.

Xenon Gas Discharge (HID) Conversions

Available online and from some importers HID conversion kits, which enable the buyer to swap the halogen globe and replace it with a non-compliant HID globe. This illegal and dangerous combination can cause excessive glare and poses a considerable hazard for other road users.

	HALOGEN GLOBE (H7)	GAS DISCHARGE LAMP (HID)
Light source:	Filament	Light arc
Luminance:	1450 cd/m ²	3000 cd/m ²
Capacity:	55W	35W
Energy balance:	8% light radiation 92% heat radiation	28% light radiation 58% heat radiation 14% UV radiation
Service life:	Approx. 500 hours	Approx. 2500 hours
Vibration-proof:	To a certain extent	Yes
Ignition voltage:	No	Yes 23000V (3rd generation)
Electronic control:	No	Yes

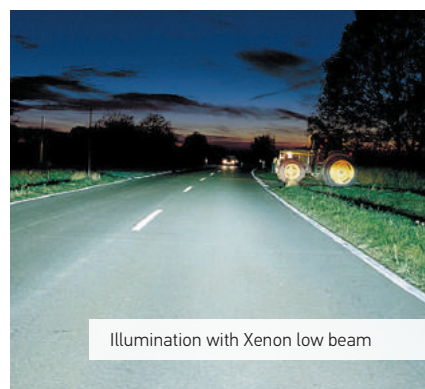
Tips for Dealing with HID Electronic Ballasts

A faulty ballast leads to complete headlight failure. Possible causes for failure of the ballast are:

- Lack of voltage/sufficient current supply.
- Lack of ground connection.
- Faulty electronics of the device.
- Internal short-circuits.



Illumination with Halogen low beam



Illumination with Xenon low beam

QUICK REFERENCE GLOBE GUIDE

HALOGEN HEADLAMP GLOBES

H1



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H3



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H4



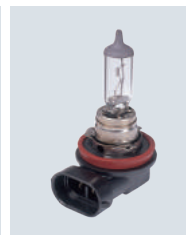
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H7



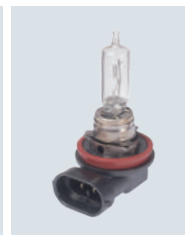
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HB3



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HB4



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HB5



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XENON GAS DISCHARGE GLOBES

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D2S



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CONVENTIONAL SIGNAL AND MARKER GLOBES

BAYONET



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QUICK REFERENCE UPGRADE GLOBE GUIDE



COOL BLUE (CB) – WHITER (UP TO 4200°K)

These globes come close to emulating the colour of a Xenon HID lamp. The high colour temperature of the Cool Blue globes creates the crisp white light which provides illumination that is conspicuous while being easy on the eye

UPGRADE GLOBES										
Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty			Page
	H1	CB1255BL		12V	55W	P14.5s	Single			454
	H1	CB1255BL2		12V	55W	P14.5s	Twin			454
	H3	YCB1255BL		12V	55W	PK22s	Single			456
	H3	YCB1255BL2		12V	55W	PK22s	Twin			456
	H4	XDB1260/55BL		12V	60/55W	P43t	Single			457
	H4	XDB1260/55BL2		12V	60/55W	P43t	Twin			457
	HB3	CBB1265BL		12V	60W	P20d	Single			458
	HB3	CBB1265BL2		12V	60W	P20d	Twin			458
	HB4	CCB1255BL		12V	51W	P22d	Single			459
	HB4	CCB1255BL2		12V	51W	P22d	Twin			459
	H7	CAB1255BL		12V	55W	PX26d	Single			459
	H7	CAB1255BL2		12V	55W	PX26d	Single			459
	T4W	HLB124BL2		12V	4W	BA9s	Twin			465
	W5W	WBQ125BL2		12V	5W	W2.1x9.5d	Twin			475

PLUS100 LONGLIFE - UP TO 2.5 TIMES THE LIFETIME AND 100% GREATER ILLUMINATION.



A new generation of high performance Halogen Globes specifically designed to cope with the extreme demands of 24-volt heavy-duty commercial transport applications. The advanced single-coil filament technology is highly vibration resistant and up to 100% brighter than normal, typically extending useful illumination of the road by 20 metres and delivering double the service life of standard globes.

UPGRADE GLOBES										
Globe	Category	Part Number		Voltage	Power Consumption	Base	*Rated Life T _c (Hrs)			Page
	H1	C2470LTS		24V	70W	P14.5s	LONGLIFE 1200	STANDARD 650		454
	H3	YC2470LTS		24V	70W	PK22s	LONGLIFE 1200	STANDARD 650		456
	H4	XD2475/70LTS		24V	75/70W	P43t	LONGLIFE 1400	STANDARD 700		457
	H7	CA2470LTS		24V	70W	PX26d	LONGLIFE 1000	STANDARD 550		459

LONGLIFE (LL) - UP TO TWICE THE LIFE



LongLife (LL) globes are increasing in popularity for applications such as taxis and drivers using headlamps during the day. Many new vehicles now come equipped with LongLife globes as a standard fitment. The globes will provide safe and legal light performance and can be rated at twice or greater the service life of standard globes.

UPGRADE GLOBES									
Globe	Category	Part Number		Voltage	Power Consumption	Base	*Rated Life T _c (Hrs)		Page
	H1	C1255LL		12V	55W	P14.5s	LONGLIFE 1250 STANDARD 400		454
	H3	YC1255LL		12V	55W	PK22s	LONGLIFE 1500 STANDARD 450		456
	H4	XD1260/55LL		12V	60/55W	P43t	LONGLIFE 1500 STANDARD 700		457
	H4	XD2475/70LL		24V	75/70W	P43t	LONGLIFE 1500 STANDARD 700		457
	HB5	CC1265/55LL		12V	65/55W	PX29t	LONGLIFE 1500 STANDARD 700		459
	H7	CA1255LL		12V	55W	PX26d	LONGLIFE 930 STANDARD 550		459
	T4W	HL124LL		12V	4W	BA9s	LONGLIFE 960 STANDARD 750		466
	T4W	HL244LL		24V	4W	BA9s	LONGLIFE 1000 STANDARD 350		466
	R5W	G125LL		12V	5W	BA15s	LONGLIFE 1500 STANDARD 300		468
	R10W	G1210LL		12V	10W	BA15s	LONGLIFE 500 STANDARD 300		468
	R5W	G245LL		24V	5W	BA15s	LONGLIFE 1000 STANDARD 225		468
	R10W	G2410LL		24V	10W	BA15s	LONGLIFE 1000 STANDARD 225		468
	PY21W	RY1221LL		12V	21W	BAU15s	LONGLIFE 2400 STANDARD 450		469
	PY21W	RY2421LL		24V	21W	BAU15s	LONGLIFE 500 STANDARD N/A		469
	P21W	R1221LL		12V	21W	BA15s	LONGLIFE 1000 STANDARD 320		469
	P21W	R2421LL		24V	21W	BA15s	LONGLIFE 1000 STANDARD 160		469
	P21/5W	S1221/5VLL		12V	21/5W	BAY15d	LONGLIFE *800 STANDARD *320		470
	W5W	W125LL		12V	5W	W2.1x9.5d	LONGLIFE 2000 STANDARD 700		475

*Test performed on main filament only.

PLUS 90 - UP TO + 90% BRIGHTER



Plus 90 globes are the ideal globes for drivers looking to increase safety with more light on the road. This halogen globe produces up to 90% more light on the road, has a beam that is up to 25 metres longer and provides light that is up to 10% whiter than a standard globe.

UPGRADE GLOBES									
Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty		Page
	H1	CU1255BL		12V	55W	P14.5s	Single		454
	H1	CU1255BL2		12V	55W	P14.5s	Twin		454
	H4	XDU1260/55BL		12V	60/55W	P43t	Single		457
	H4	XDU1260/55BL2		12V	60/55W	P43t	Twin		457
	H7	CAU1255BL		12V	55W	PX26d	Single		459
	H7	CAU1255BL2		12V	55W	PX26d	Twin		459



PLUS 50 - UP TO + 50% BRIGHTER

Plus 50 globes take lighting even further by providing up to 50% more illumination on the road than a standard headlamp globe while emitting a 10-20m longer beam.

UPGRADE GLOBES									
Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty		Page
	H1	CX1255BL		12V	55W	P14.5s	Single		320
	H1	CX1255BL2		12V	55W	P14.5s	Twin		
	H3	YCX1255BL		12V	55W	PK22s	Single		
	H3	YCX1255BL2		12V	55W	PK22s	Twin		
	H4	XDX1260/55BL		12V	60/55W	P43t	Single		
	H4	XDX1260/55BL2		12V	60/55W	P43t	Twin		
	H7	CAX1255BL		12V	55W	PX26d	Single		
	H7	CAX1255BL2		12V	55W	PX26d	Twin		



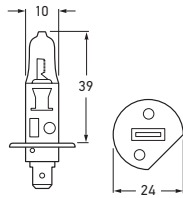
PLUS 30 - UP TO + 30% BRIGHTER

This globe outshines a standard headlamp globe by achieving up to 30% greater illumination on the road in the 50-75m range allowing better orientation and earlier reaction to hazards.

UPGRADE GLOBES									
Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty		Page
	H1	CP1255BL		12V	55W	P14.5s	Single		454
	H1	CP1255BL2		12V	55W	P14.5s	Twin		454
	H3	YCP1255BL		12V	55W	PK22s	Single		456
	H3	YCP1255BL2		12V	55W	PK22s	Twin		456
	H4	XDP1260/55BL		12V	60/55W	P43t	Single		457
	H4	XDP1260/55BL2		12V	60/55W	P43t	Twin		457



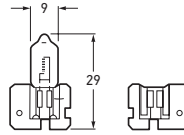
P/N CU1255BL



HALOGEN GLOBES - H1						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty
CU1255BL		12V	55W	P14.5s	H1	Single
CU1255BL2		12V	55W	P14.5s	H1	Twin
CX1255BL		12V	55W	P14.5s	H1	Single
CX1255BL2		12V	55W	P14.5s	H1	Twin
CP1255BL		12V	55W	P14.5s	H1	Single
CP1255BL2		12V	55W	P14.5s	H1	Twin
CB1255BL		12V	55W	P14.5s	H1	Single
CB1255BL2		12V	55W	P14.5s	H1	Twin

HALOGEN GLOBES - H1						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)
C2470LTS		24V	70W	P14.5s	H1	LONGLIFE 1200 STANDARD 650
C1255LL		12V	55W	P14.5s	H1	LONGLIFE 1250 STANDARD 400

HALOGEN GLOBES - H1						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty
C12100		12V	100W	P14.5s	-	-
C12100BL		12V	100W	P14.5s	-	-
C24100		24V	100W	P14.5s	-	-
C24100BL		24V	100W	P14.5s	-	-
C1255		12V	55W	P14.5s	H1	-
C1255BL		12V	55W	P14.5s	H1	-
C2455		24V	55W	P14.5s	-	-
C2470		24V	70W	P14.5s	H1	-
C2470BL		24V	70W	P14.5s	H1	-



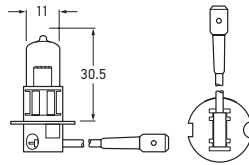
HALOGEN GLOBES - H2						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
CD12100	12V	100W	X511	-	-	
CD12100BL	12V	100W	X511	-	Single	
CD1255	12V	55W	X511	H2	-	
CD24100	24V	100W	X511	-	-	
CD2470	24V	70W	X511	H2	-	



P/N CD12100



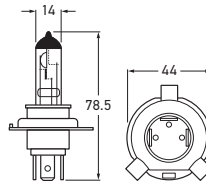
P/N YCX1255BL



















HALOGEN GLOBES - H3						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty
YCX1255BL		12V	55W	PK22s	H3	Single
YCX1255BL2		12V	55W	PK22s	H3	Twin
YCP1255BL		12V	55W	PK22s	H3	Single
YCP1255BL2		12V	55W	PK22s	H3	Twin
YCB1255BL		12V	55W	PK22s	H3	Single
YCB1255BL2		12V	55W	PK22s	H3	Twin


HALOGEN GLOBES - H3										
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _c (Hrs)				
YC1255LL		12V	55W	PK22s	H3	<table border="0"> <tr> <td>LONGLIFE</td> <td>STANDARD</td> </tr> <tr> <td>1500</td> <td>450</td> </tr> </table>	LONGLIFE	STANDARD	1500	450
LONGLIFE	STANDARD									
1500	450									
YC2470LTS		24V	70W	PK22s	H3	<table border="0"> <tr> <td>LONGLIFE</td> <td>STANDARD</td> </tr> <tr> <td>1200</td> <td>650</td> </tr> </table>	LONGLIFE	STANDARD	1200	650
LONGLIFE	STANDARD									
1200	650									

HALOGEN GLOBES - H3						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty
YC12100		12V	100W	PK22s	-	
YC12100BL		12V	100W	PK22s	-	Single
YC24100		24V	100W	PK22s	-	
YC24100BL		24V	100W	PK22s	-	Single
YC1255		12V	55W	PK22s	H3	
YC1255BL		12V	55W	PK22s	H3	Single
YC2470		24V	70W	PK22s	H3	
YC2470BL		24V	70W	PK22s	H3	Single



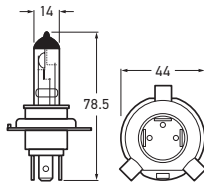
P/N XDU1260/55BL

HALOGEN GLOBES - H4						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
XDU1260/55BL 	12V	60/55W	P43t	H4	Single	
XDU1260/55BL2 	12V	60/55W	P43t	H4	Twin	
XDX1260/55BL 	12V	60/55W	P43t	H4	Single	
XDX1260/55BL2 	12V	60/55W	P43t	H4	Twin	
XDP1260/55BL 	12V	60/55W	P43t	H4	Single	
XDP1260/55BL2 	12V	60/55W	P43t	H4	Twin	
XDB1260/55BL 	12V	60/55W	P43t	H4	Single	
XDB1260/55BL2 	12V	60/55W	P43t	H4	Twin	

HALOGEN GLOBES - H4						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)	
XD2475/70LTS 	24V	75/70W	P43t	H4	LOGLIFE 1400	STANDARD 700



P/N XD1260/55LL

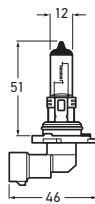


HALOGEN GLOBES - H4						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)
XD1260/55LL		12V	60/55W	P43t	H4	LOGLIFE 1500 STANDARD 700
XD2475/70LL		24V	75/70W	P43t	H4	LOGLIFE 1500 STANDARD 700

HALOGEN GLOBES - H4						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty
XD12100/55		12V	100/55W	P43t	-	-
XD12100/80		12V	100/80W	P43t	-	-
XD12100/90		12V	100/90W	P43t	-	-
XD12100/90BL		12V	100/90W	P43t	-	-
XD24100/90		24V	100/90W	P43t	-	-
XD1260/55		12V	60/55W	P43t	H4	-
XD1260/55BL		12V	60/55W	P43t	H4	-
XD2475/70		24V	75/70W	P43t	H4	-
XD2475/70BL		24V	75/70W	P43t	H4	-



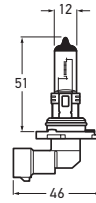
P/N CBB1265BL







HALOGEN GLOBES - HB3						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty
CBB1265BL		12V	60W	P20d	HB3	Single
CBB1265BL2		12V	60W	P20d	HB3	Twin
CB1265		12V	60W	P20d	HB3	-



Cool Blue



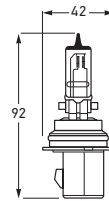
HALOGEN GLOBES - HB4						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
CCB1255BL 	12V	51W	P22d	HB4	Single	
CCB1255BL2 	12V	51W	P22d	HB4	Twin	
CC1255	12V	51W	P22d	HB4	-	




P/N CCB1255BL



Cool Blue



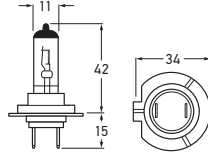
HALOGEN GLOBES - HB5						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)	
CC1265/55LL 	12V	65/55W	PX29t	-	LOGLIFE 1500	STANDARD 700
Note	SAE Category HB5					



P/N CC1265/55LL



P/N CAU1255BL

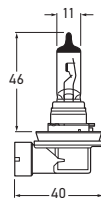


HALOGEN GLOBES - H7						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty
CAU1255BL		12V	55W	PX26d	H7	Single
CAU1255BL2		12V	55W	PX26d	H7	Twin
CAX1255BL		12V	55W	PX26d	H7	Single
CAX1255BL2		12V	55W	PX26d	H7	Twin
CAB1255BL		12V	55W	PX26d	H7	Single
CAB1255BL2		12V	55W	PX26d	H7	Twin

HALOGEN GLOBES - H7						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)
CA2470LTS		24V	70W	PX26d	H7	LOGLIFE 1000 STANDARD 500
CA1255LL		12V	55W	PX26d	H7	LOGLIFE 930 STANDARD 550

HALOGEN GLOBES - H7						
Part Number		Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty
CA1265BL		12V	65W	PX26d	-	Single
CA1255		12V	55W	PX26d	H7	-
CA1255BL		12V	55W	PX26d	H7	Single
CA2470		24V	70W	PX26d	H7	-

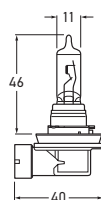
AUTOMOTIVE GLOBES



HALOGEN GLOBES - H8						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category		
CE1235	12V	35W	PGJ 19-1	H8		



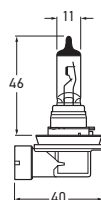
P/N CE1235



HALOGEN GLOBES - H9						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category		
CF1265	12V	65W	PGJ 19-5	H9		



P/N CF1265



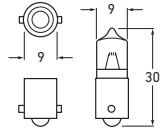
HALOGEN GLOBES - H11						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category		
CG1255	12V	55W	PGJ 19-2	H11		
CG2470	24V	70W	PGJ 19-2	H11		



P/N CG1255



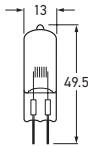
P/N YL125



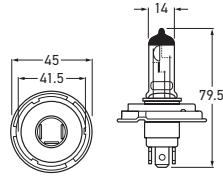
SPECIAL PURPOSE HALOGEN GLOBES - TRANSVERSE FILAMENT						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category		
YL125	12V	5W	BA9s	-		
YL1210	12V	10W	BA9s	-		
YL1220	12V	20W	BA9s	-		



P/N SL150-24

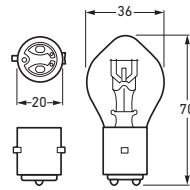


SPECIAL PURPOSE HALOGEN GLOBE - SINGLE FILAMENT						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category		
SL150/24	12V	150W	G6.35	-		
Suits		Old light band version of SEG700L.				



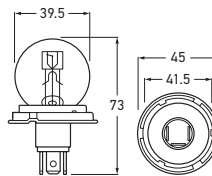
P/N XE1260/55

HALOGEN HEADLAMP GLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
XE1260/55	12V	60/55W	P45t	-	
XE2475/70	24V	75/70W	P45t	-	



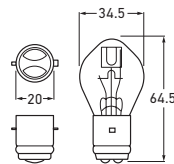
P/N D1235/35

HEADLAMP GLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
D1235/35	12V	35/35W	BA20d	S2	



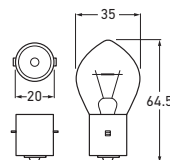
P/N A2455/50

A2455/50	24V	55/50W	P45t-41	R2	
Note	European base				



P/N B1245/40

B1245/40	12V	45/40W	BA20d	-	
Note	Bosch base				

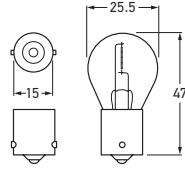


P/N D1245

D1245	12V	45W	BA20s	-	
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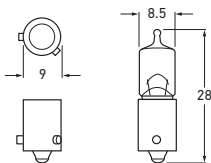


P/N E1225



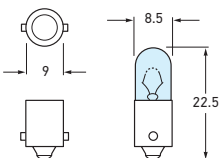
DOME LAMP GLOBES					
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	
E1225	12V	25W	BA15s	-	
E2425	24V	25W	BA15s	-	

AUTOMOTIVE GLOBES



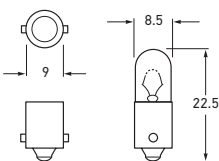
P/N W126BL2

HALOGEN MINIATURE GLOBES						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
W126BL2	12V	6W	BAX9s	H6W	Twin	



P/N HLB124BL2

MINIATURE GLOBES						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
HLB124BL2	12V	4W	BA9s	T4W	Twin	



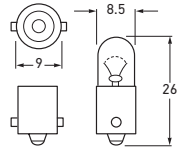
P/N HL126X

MINIATURE GLOBES - MINIXEN						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category		
HL126X	12V	6W	BA9s	-		

High performance miniature globe utilising xenon filling gas to provide 60% brighter light than standard equivalents.



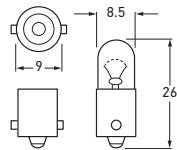
P/N HL124LL



MINIATURE GLOBES						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)
HL124LL		12V	4W	BA9s	T4W	LOGLIFE 960 STANDARD 750
HL244LL		24V	4W	BA9s	T4W	LOGLIFE 1000 STANDARD 350



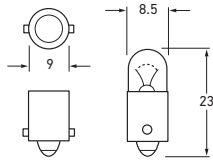
P/N HL64



MINIATURE GLOBES						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	
HL64		6V	4W	BA9s	T4W	
HL124		12V	4W	BA9s	T4W	
HL244		24V	4W	BA9s	T4W	



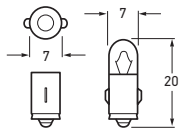
P/N H62



H62		6V	2W	BA9s	-	
H122		12V	2W	BA9s	-	
H123		12V	3W	BA9s	-	
H242		24V	2W	BA9s	-	



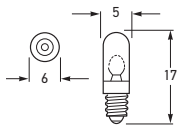
P/N J122



J122		12V	2W	BA7s	-	
J243		24V	3W	BA7s	-	

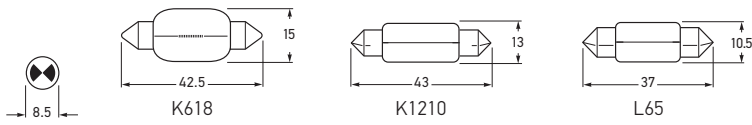


P/N 292



292		12V	1.5W	E 5.5	-	-
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AUTOMOTIVE GLOBES



FESTOON GLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
L65	6V	5W	SV8.5	C5W	
L125	12V	5W	SV8.5	C5W	
L1210	12V	10W	SV8.5	-	
L2410	24V	10W	SV8.5	-	
L245	24V	5W	SV8.5	C5W	
K1210	12V	10W	SV8.5		
K2410	24V	10W	SV8.5		
K618	6V	18W	SV8.5	-	
K1218	12V	18W	SV8.5	-	
K1221	12V	21W	SV8.5	C21W	
K2418	24V	18W	SV8.5	-	
K2421	24V	21W	SV8.5	-	



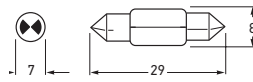
P/N L65



P/N K1210



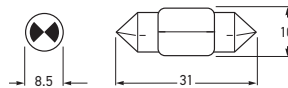
P/N K618



M123	12V	3W	S7	-	
M243	24V	3W	S7	-	



P/N M123



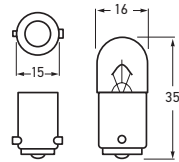
N1210	12V	10W	SV8.5	-	
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P/N N1210



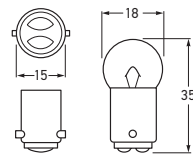
P/N G125LL



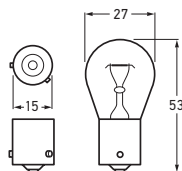
REAR POSITION, MARKER AND CLEARANCE GLOBES							
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)	
G125LL		12V	5W	BA15s	R5W	LOGLIFE 1500	STANDARD 300
G1210LL		12V	10W	BA15s	R10W	LOGLIFE 500	STANDARD 300
G245LL		24V	5W	BA15s	R5W	LOGLIFE 1000	STANDARD 225
G2410LL		24V	10W	BA15s	R10W	LOGLIFE 1000	STANDARD 225
G610		6V	10W	BA15s	R10W		
G125		12V	5W	BA15s	R5W		
G1210		12V	10W	BA15s	R10W		
G245		24V	5W	BA15s	R5W		
G2410		24V	10W	BA15s	R10W		





P/N GD125

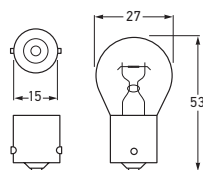


GD125		12V	5W	BA15d	R5W		
GD245		24V	5W	BA15d	R5W		



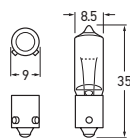
P/N RY1221LL

BAYONET INDICATOR AND STOP LAMP GLOBES							
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)		
RY1221LL 	12V	21W	BAU15s	PY21W	LOGLIFE 2400	STANDARD 450	
RY2421LL 	24V	21W	BAU15s	PY21W	LOGLIFE 500	STANDARD N/A	
RY1221	12V	21W	BAU15s	PY21W			



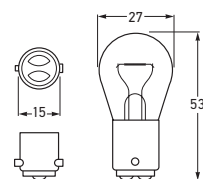
P/N R1221LL

R1221LL 	12V	21W	BA15s	P21W	LOGLIFE 1000	STANDARD 320	
R2421LL 	24V	21W	BA15s	P21W	LOGLIFE 1000	STANDARD 160	



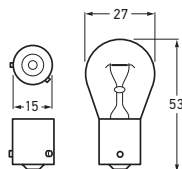
P/N RQ1221

RQ1221	12V	21W	BAY9s	H21W			
RQ2421	24V	21W	BAY9s	H21W			



P/N FD1221

FD1221	12V	21W	BA15d	P21W			
FD2421	24V	21W	BA15d	P21W			

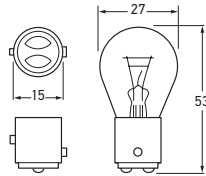



P/N R618

R618	6V	18W	BA15s				
R1218	12V	18W	BA15s				
R1221	12V	21W	BA15s	P21W			
R1232	12V	32 c.p	BA15s				
R2418	24V	18W	BA15s				
R2421	24V	21W	BA15s	P21W			



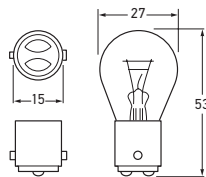
P/N S1221/5VLL



BAYONET STOP AND TAIL LAMP GLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _c (Hrs)
S1221/5VLL 	12V	21/5W	BAY15d	P21/5W	LONGLIFE *800 STANDARD *320
Note *Test performed on main filament only.					
S621/5V	6V	21/5W	BAY15d		
S1218/5V	12V	18/5W	BAY15d		
S1221/5V	12V	21/5W	BAY15d	P21/5W	
S1232/4V	12V	32/3 c.p	BAY15d		
S2418/5V	24V	18/5W	BAY15d		
S2421/5V	24V	21/5W	BAY15d	P21/5W	



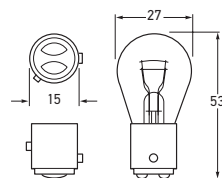
P/N S1221/5P



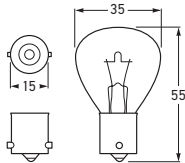
S1221/5P	12V	21/5W	BA15d		
S2418/5P	24V	18/5W	BA15d		



P/N S1221/4Z



S1221/4Z	12V	21/4W	BAZ15d	P21/4W	
Note Double filament globe for rear fog and rear position lamps.					

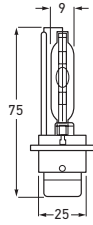


P/N U1245

SPECIAL GLOBES FOR EMERGENCY FLASHER AND REVOLVING LAMPS					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
U1245	12V	45W	BA15s	-	
U2445	24V	45W	BA15s	-	



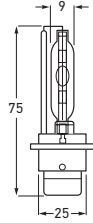
P/N XN4000



D2S XGD GLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Colour Temperature
XN4000	85V	35W	P32d-2	D2S	4200°K
Note For use only with appropriate electronic control gear.					



P/N XN4000CM

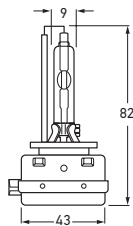


XN4000CM	85V	35W	P32d-2	D2S	5000°K
Designed to match the colour of existing "burned in" gas discharge globes to eliminate colour variance when a single lamp of a pair requires globe replacement.					
Note For use only with appropriate electronic control gear.					

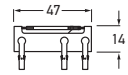
XN4000WX	85V	35W	P32d-2	-	6000°K
Features higher colour temperature of 6000°K for aesthetic cool white lighting.					
Note For use only with appropriate electronic control gear.					



P/N XN4001



D1S XGD GLOBE					
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	Colour Temperature
XN4001	85V	35W	PK32d-2	D1S	4200°K
Note For use only with appropriate electronic control gear.					



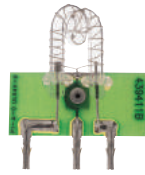
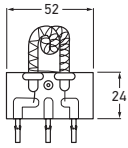
P/N XN000

STROBE FLASH TUBES

Part Numbers	Voltage	Power Consumption	Base
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XN000	12-72V	-	Circuit Board
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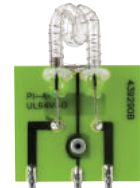
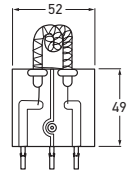
Note	For use only with appropriate electronic control gear. Suits Firebolt Plus Series Strobe Lamps.		
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P/N XN451

XN451	12-48V	-	Circuit Board
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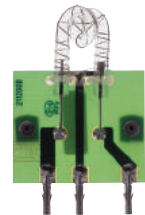
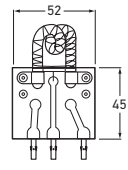
Note	For use only with appropriate electronic control gear. Suits 451 Series Strobe Lamps		
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P/N XN551

XN551	12-48V	-	Circuit Board
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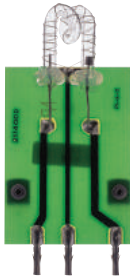
Note	For use only with appropriate electronic control gear. Suits Pulsator 551 Series Strobe Lamps.		
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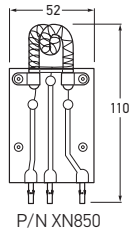
P/N XN602

XN602	12/48V	-	Circuit Board
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Note	For use only with appropriate electronic control gear. Suits 602 Series Strobe Lamps.		
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P/N XN850

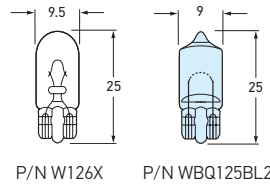


P/N XN7000





P/N XN6750

STROBE FLASH TUBES				
Part Numbers	Voltage	Power Consumption	Base	
XN850	12/48V	-	Circuit Board	
Note	For use only with appropriate electronic control gear. Suits 851 Series Strobe Lamps.			
XN7000	12/24V	-	Circuit Board	
Note	For use only with appropriate electronic control gear. Suits KLX7000 Series Strobe Lamps.			
XN6750	12/24V	-	Circuit Board	
Note	For use only with appropriate electronic control gear. Suits 6750 Series Strobe Lamps.			



P/N WBQ125BL2

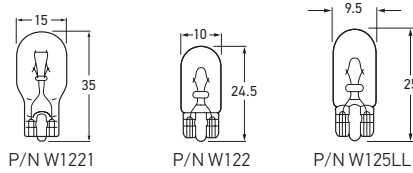
HALOGEN WEDGE BASE GLOBES						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
WBQ125BL2 	12V	5W	W2.1x9.5d	W5W	Twin	

W126X	12V	6W	W2.1x9.5d	-	-	
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High performance miniature globe utilising xenon filling gas to provide 60% brighter light than standard equivalents.



P/N W126X



P/N W125LL

WEDGE BASE GLOBES						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)	
W125LL 	12V	5W	W2.1x9.5d	W5W	LONGLIFE 2000	STANDARD 700

W122	12V	2 c.p	W2.1x9.5d	-		
W125	12V	5W	W2.1x9.5d	W5W		
W245	24V	5W	W2.1x9.5d	W5W		

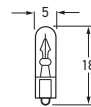


P/N W122



P/N W1221

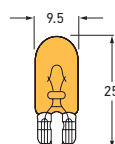
W1221	12V	21 c.p	W2.1x9.5d	W16W		
WS1212	12V	12 c.p	W2.1x9.5d	-		



P/N WBL122

WBL122*	12V	2W	Wedge	-		
WS122	12V	2W	W2x4.6d	-		
WS242	24V	2W	W2x4.6d	-		
W61.2	6V	1.2W	W2x4.6d	-		
W121.2	12V	1.2W	W2x4.6d	-		
W241.2	24V	1.2W	W2x4.6d	-		

Note *Special for early model Matrix high level brake lamps.

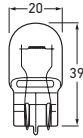


P/N WY125

WY125	12V	5W	W2.1x9.5d	WY5W		
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P/N WG1221



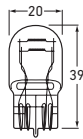
GLASS WEDGE BASE GLOBES					
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	
WG1221	12V	21W	W3x16d	W21W	
WGY1221	12V	21W	W3x16d	WY21W	



P/N WGY1221



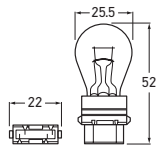
P/N WG1221/5



WG1221/5	12V	21/5W	W3x16q	W21/5W	
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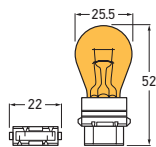
P/N WP1227/7



PLASTIC WEDGE BASE GLOBES					
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	
WP1227/7	12V	27/7W	W2.5x16q	P27/7W	

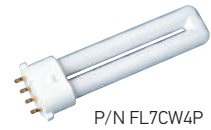


P/N WPA1227/7

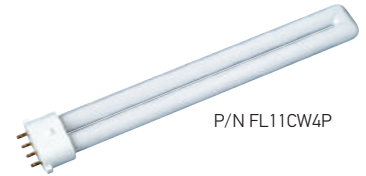


WPA1227/7	12V	27/7W	W2.5x16q	P27/7W	
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FLUORESCENT TUBES			
Part Numbers	Power Consumption	Base	Colour
FL7CW4P	7W	2G7	840 Cool White
FL7WW4P	7W	2G7	827 Warm White
Suits	P/Ns 2642/2642-24V		
FL11CW4P	11W	2G7	840 Cool White
FL11WW4P	11W	2G7	827 Warm White
Suits	P/Ns 2643/2643-24V/1523		
FL8	8W	TL8W	25 Cool White
Suits	P/Ns 2644/2644-24V/7033		



P/N FL7CW4P



P/N FL11CW4P



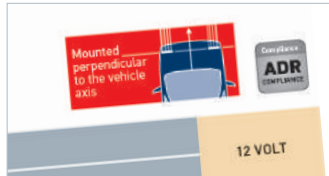
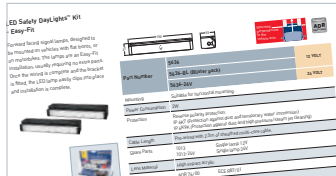
P/N FL8

3RD EDITION ADR REFERENCE GUIDE

The following pages are a guide to mounting HELLA lamps in compliance with the Australian Design Rules (ADR). The diagrams in this section are intended as a general guide only, for exact mounting specifications please refer to ADR 13/00.



A quick reference



HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function
2550	001385-28	48/00	Number Plate Lamp
2551	001385-29	48/00	Number Plate Lamp
2553	951068-02	48/00	Number Plate Lamp
2554	950921-00	48/00	Number Plate Lamp
2555	001385-18	48/00	Number Plate Lamp
	000047-03	48/00	Number Plate Lamp

1. Find the product that fulfils your illumination requirement.

2. Check for the ADR symbol next to the part number to ensure it's compliance.

3. Look up the part number on the chart in this section for complete ADR information.

Simpler ADR Compliance

The 3rd edition ADR covers all vehicles and trailers, even those not subject to registration requirements such as very light trailers or 'box' trailers.

To simplify the ADR approval process for smaller manufacturers and individual home-builders, HELLA has made a consolidated Summary

of Evidence (SE) submission to the Federal Office of Road Safety (FORS). This submission covers all HELLA products that comply with 3rd Edition ADRs.

This catalogue lists both the HELLA and FORS Component Registration Numbers (CRN) beside each item in a quick reference ADR application

chart in this section.

HELLA provides specific ADR related lamp orientation and mounting requirements to enable customers requiring ADR compliance to simply quote the relevant CRN to the authorities (who maintain a central register), rather than undertake detailed SE submissions for each lamp function.

REAR

- 1 ADR 49/00 Rear End Outline Lamps
- 2 ADR 48/00 Number Plate Lamps
- 3 ADR 6/00: Cat.2 Rear Direction Indicators
- 4 ADR 49/00 Rear Position Lamps
- 5 ADR 49/00 Stop Lamps
- 6 ADR 47/00 Rear Retro Reflectors
- 7 ADR 1/00 Reversing Lamps

SIDE

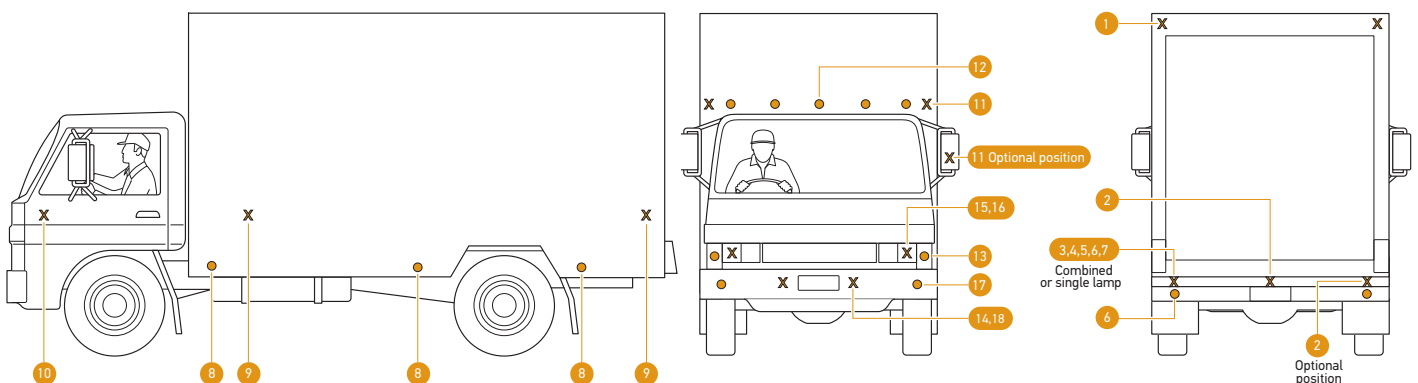
- 8 ADR 47/00 Side Retro Reflectors
- 9 ADR 45/01 or 74/00 Side Markers
- 10 ADR 6/00 Supplementary Side Direction Indicators

FRONT

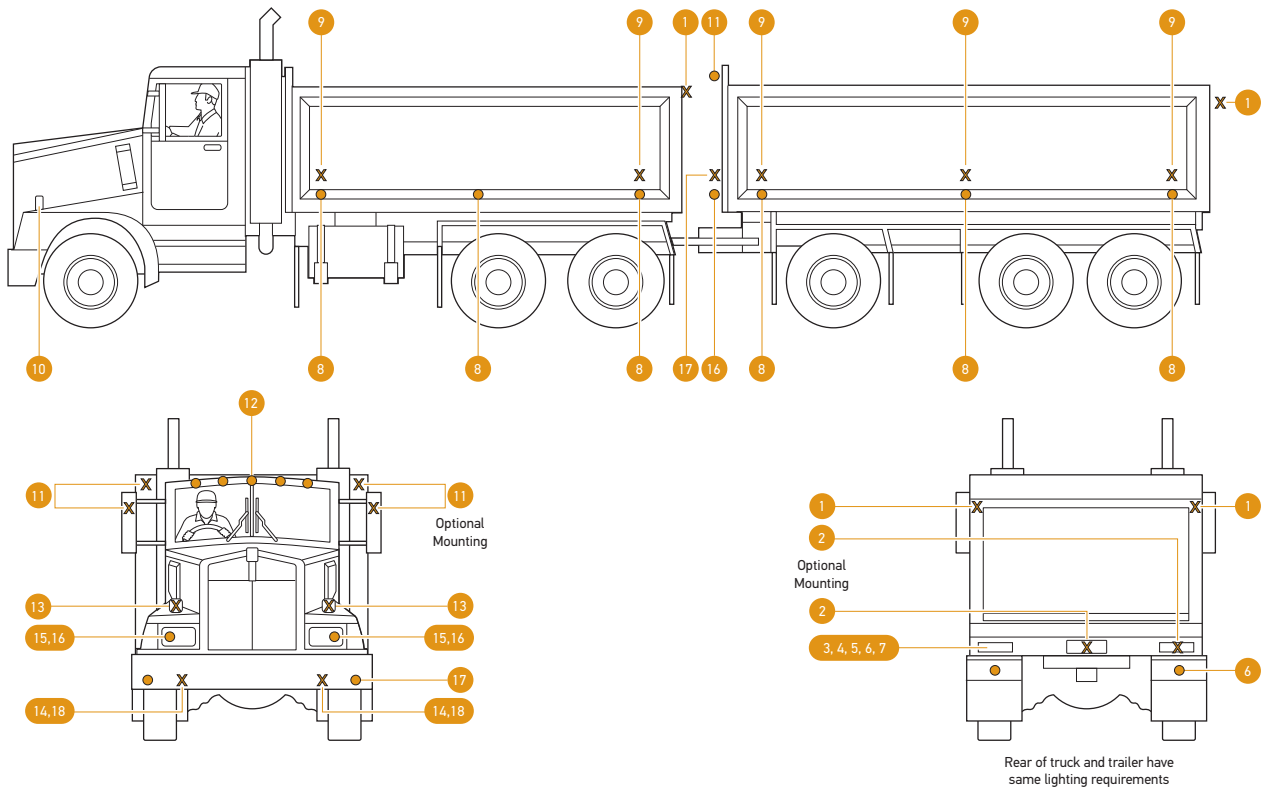
- 11 ADR 49/00 Front End Outline Lamps
- 12 ADR 45/01 Cab Markers (optional)
- 13 ADR 6/00: Cat.1 Front Direction Indicators
- 14 ADR 50/00 Front Fog Lamps (optional)
- 15 ADR 46/00 Headlamps
- 16 ADR 49/00 Front Position Lamps
- 17 ADR 47/00 Front Retro Reflectors
- 18 ADR 76/00 Daytime Running Lamps (optional)
- 19 Driving Lamps (optional)

*Optional on motor vehicles. ADR 13/00 permits up to 4 driving lamps that do not have to comply with ADR 46/00

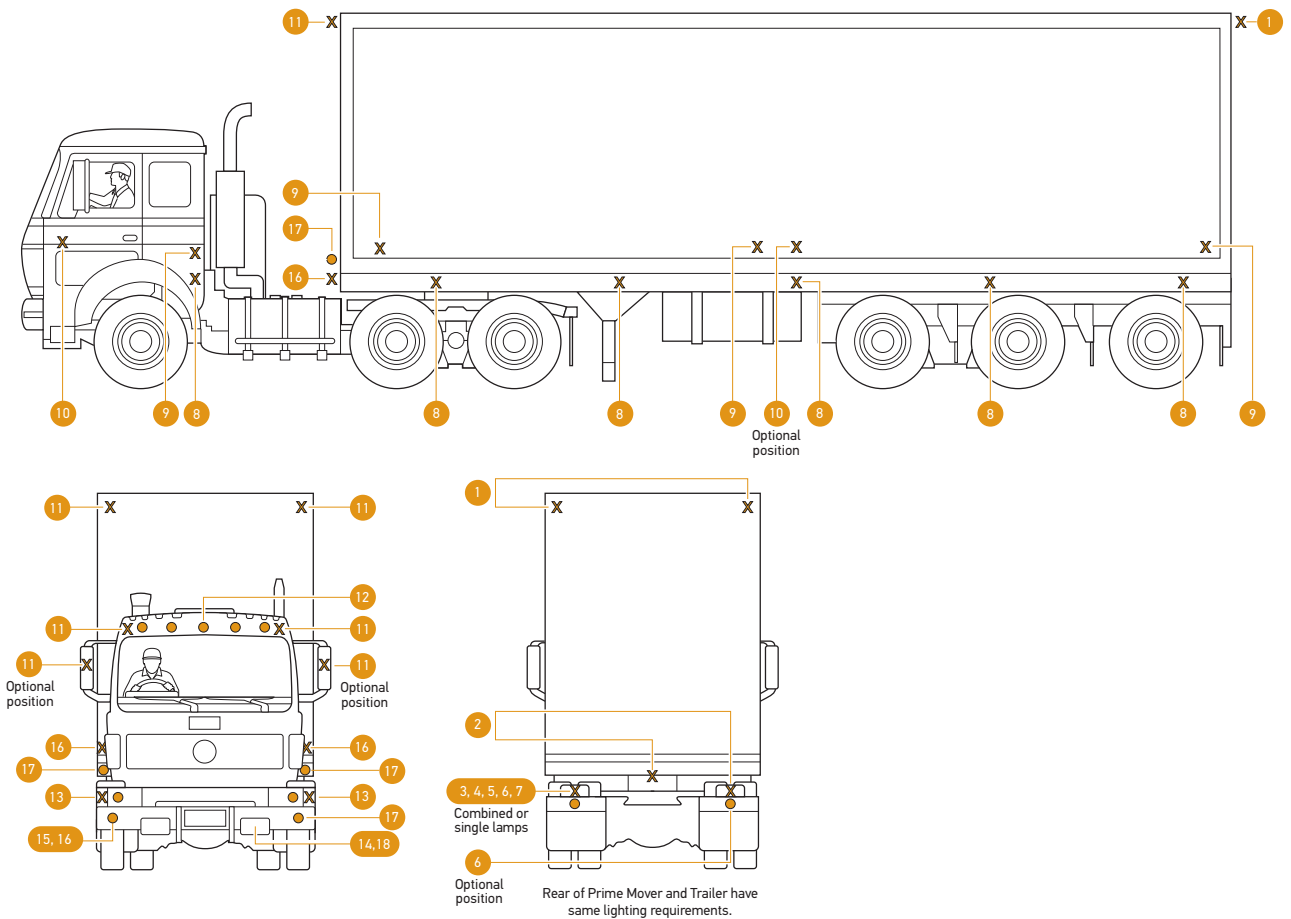
SMALL TRUCK



SINGLE TRAILER



SEMI TRAILER



REAR

- 1 ADR 49/00 Rear End Outline Lamps
- 2 ADR 48/00 Number Plate Lamps
- 3 ADR 6/00: Cat.2 Rear Direction Indicators
- 4 ADR 49/00 Rear Position Lamps
- 5 ADR 49/00 Stop Lamps
- 6 ADR 47/00 Rear Retro Reflectors
- 7 ADR 1/00 Reversing Lamps

SIDE

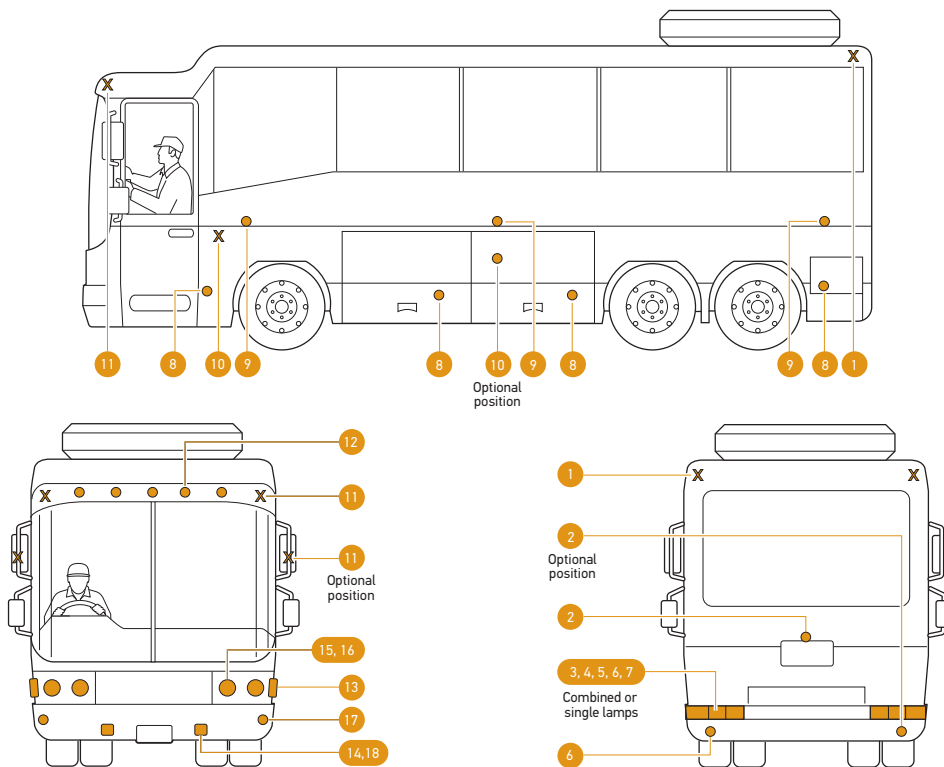
- 8 ADR 47/00 Side Retro Reflectors
- 9 ADR 45/01 or 74/00 Side Markers
- 10 ADR 6/00 Supplementary Side Direction Indicators

FRONT

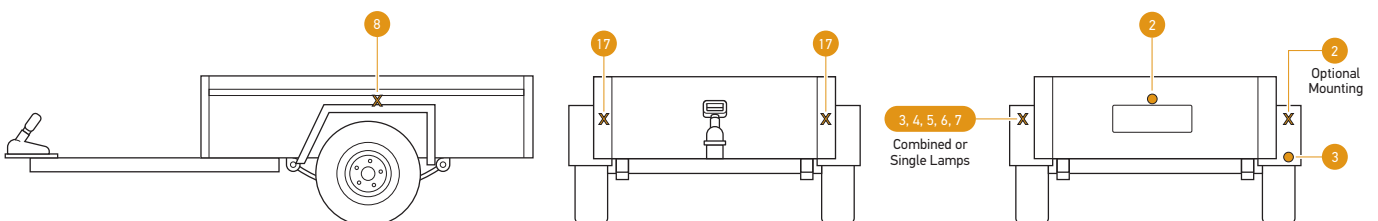
- 11 ADR 49/00 Front End Outline Lamps
- 12 ADR 45/01 Cab Markers (optional)
- 13 ADR 6/00: Cat.1 Front Direction Indicators
- 14 ADR 50/00 Front Fog Lamps (optional)
- 15 ADR 46/00 Headlamps
- 16 ADR 49/00 Front Position Lamps
- 17 ADR 47/00 Front Retro Reflectors
- 18 ADR 76/00 Daytime Running Lamps (optional)
- 19 Driving Lamps (optional)

*Optional on motor vehicles. ADR 13/00 permits up to 4 driving lamps that do not have to comply with ADR 46/00

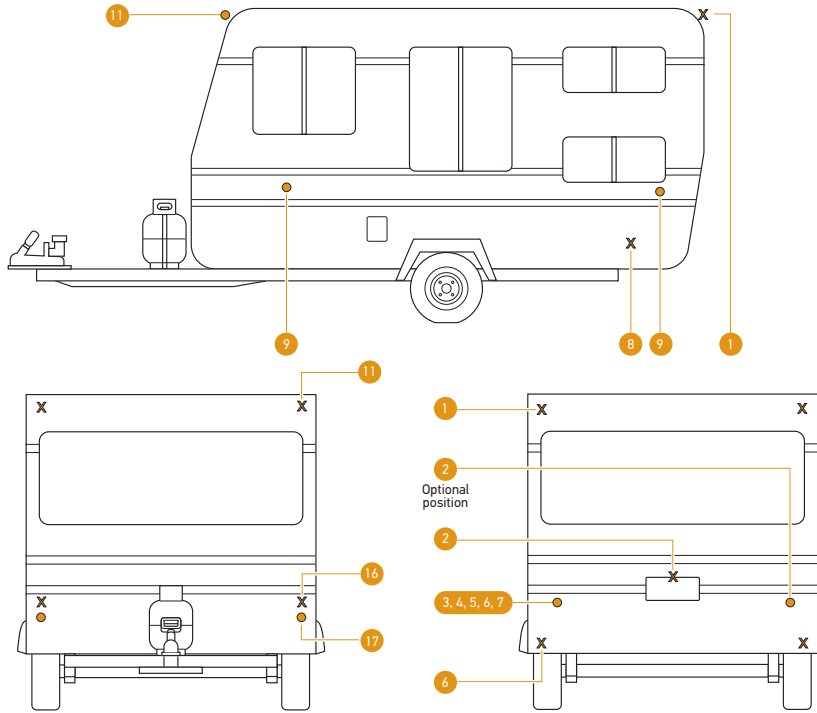
COACH



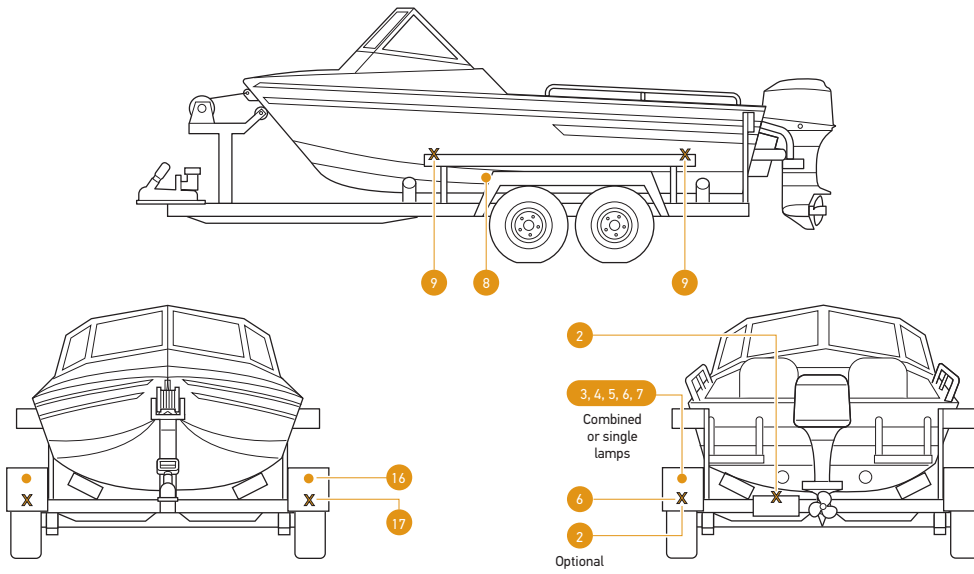
SMALL TRAILER



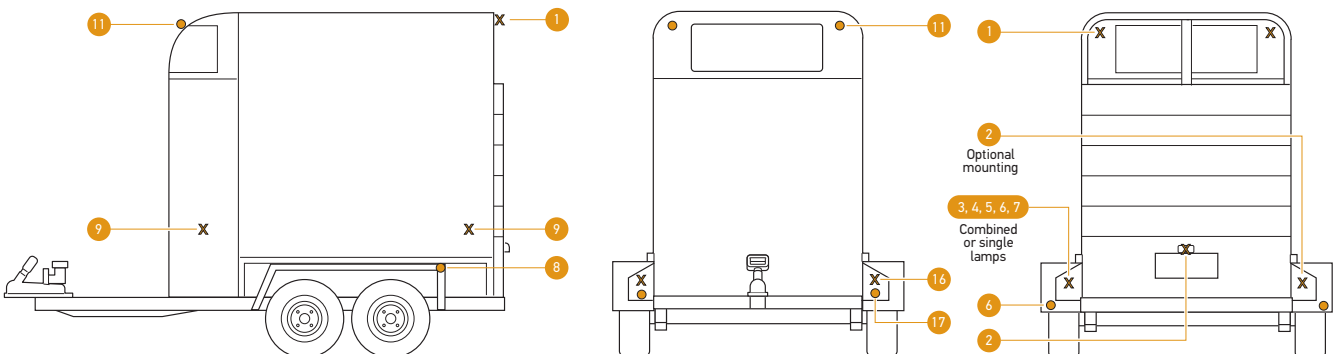
CARAVAN



BOAT TRAILER



HORSE FLOAT



Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1000	012614-00	76/00	Daytime Running Lamp	R1221	P21W	DRL*1000*B	27424	911-353-51	RL 008701
1001	950957-00	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*1001*A	15230	911-351-00	016086 (Turn Signal) 17031R20 (Headlamp)
		46/00	Headlamp	XD1260/55	H4	HL*1001*A	15232		
		49/00	Front Position Lamp	HL124	T4W	FP*1001*A	15231		
1003	980608-50	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1003*A	41607	980-703-11	9060
1004	980670-00	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000002	980-703-10	E24 0002 (0670)
HM1535DRL	980670-80								
1005	980680-00	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000001	980-703-12 980-703-24	E24 0001 (0680)
1005-24V	980680-50								
1006	980690-50	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1006*A	42763	980-703-47	0690
1007-24V	980690-40	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-53	0690
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5854		
1008	980680-11	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000001	980-703-68 980-703-69	E24 0001 (0680)
1008-24V	980680-61								
1009	980880-00	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1009*A	44200	958-780-04	0880
1009-24V	980880-10					DRL*1009-24V*A	44202		
1009V	980880-40	76/00	Daytime Running Lamp	LED	N/A LED	1009V*DRL*C	45962	958-780-92	0880 B
1009V-24V	980880-50					1009V-24V*DRL*C	45965		
1013	980970-00	76/00	Daytime Running Lamp	LED	N/A LED	*DRL*1013*A	44776	958-780-44	0970
1013-24V	980970-50					*DRL*1013-24V*A	44783		
1015	951067-02	46/00	Headlamp	Sealed Beam	N/A	HL*1015*A	15256	911-351-01	86302
1027	003434-18	46/00	Headlamp	XD1260/55	H4	HL*1027*A	15311	911-352-79	17016
		49/00	Front Position Lamp	HL124	T4W	FP*1027*A	15317		
1028	007834-00	46/00	Headlamp (Low/Dipped Beam)	C1255	H1	HL*1028*A	32013	911-353-80	550
1029	008193-00	46/00	Headlamp (Low/Dipped Beam)	CA1255	H7	HL*1029*A	32008	911-353-81	917
1030	008191-00/02	46/00	Headlamp (High/Main Beam)	CA1255	H7	HL*1030*A	32009	911-353-79	917
		49/00	Front Position Lamp (1030 only)	HL124	T4W	FP*1030*A	32014		
1031	008191-04	46/00	Headlamp (High/Main Beam)	CA1255	H7	HL*1031*A	32010		
1041	003177-06	46/00	Headlamp	C1255	H1	HL*1041*A	15071	911-351-06	24504
1042	003177-30	46/00	Headlamp	XD1260/55	H4	HL*1042*A	15072	911-351-07	7197R20
1043	003427-04	46/00	Headlamp	XD1260/55	H4	HL*1043*A	15198	911-351-08	17009
		49/00	Front Position Lamp	HL124	T4W	FP*1043*A	15197		
1044	003177-51	46/00	Headlamp	XD1260/55	H4	HL*1044*A	15073	911-351-10	7197R20
		49/00	Front Position Lamp	HL124	T4W	FP*1044*A	15074		
1053	114155-00	46/00	Headlamp	C1255	H1	HL*1053*A	15075	911-351-14	14464R8
1054	114178-00	46/00	Headlamp	C1255	H1	HL*1054*A	15092	911-351-15	7076R8
		49/00	Front Position Lamp	HL124	T4W	FP*1054*A	15093		
1055 & 1055HD	002850-06 & 002850-21	46/00	Headlamp	XD1260/55	H4	HL*1055*A	15088	911-351-16	17031R20
		49/00	Front Position Lamp	HL124	T4W	FP*1055*A	15089		
1056	002395-84	46/00	Headlamp	XD1260/55	H4	HL*1056*A	15094	911-351-17	53
		49/00	Front Position Lamp	HL124	T4W	FP*1056*A	15095		
1058 & 1058HD	002395-13 (950519-00) & 002395-26	46/00	Headlamp	XD1260/55	H4	HL*1058*A	15096	911-351-18	53
		49/00	Front Position Lamp	HL124	T4W	FP*1058*A	15097		
1107	956329-00	50/00	Front Fog Lamp	YC1255	H3	FF*1107*A	15127	911-351-29	8361
1108	005750-04	50/00	Front Fog Lamp	YC1255	H3	FF*1108*A	15137	911-351-30	18213R19
1109	005700-02	50/00	Front Fog Lamp	YC1255	H3	FF*1109*A	15134	911-351-31	18216R19
1110	005860-00	50/00	Front Fog Lamp	YC1255	H3	FF1110*A	15218	911-351-32	18227
1111	006300-07	50/00	Front Fog Lamp	YC1255	H3	FF*1111*A	15255	911-351-33	18231
1122	008283-00	50/00	Front Fog Lamp	CA1255	H7	FF*1122*A	26829	911-353-45	021209
1123	008284-00	50/00	Front Fog Lamp	CA1255	H7	FF*1123*A	26830	911-353-47	021211
1124	001951-10	50/00	Front Fog Lamp	YC1255	H3	N/A ECE	03B E1 3221	HKG 460 845-16 & Refer ADR 13/00	E1 3221 R19

3RD EDITION ADR REFERENCE GUIDE

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1125	001952-10	50/00	Front Fog Lamp	YC1255	H3	N/A ECE	03B E1 3222	HKG 460 845-16 & Refer ADR 13/00	E1 3222 R19
1126	001953-10	50/00	Front Fog Lamp	YC1255	H3	N/A ECE	03B E1 3223	HKG 460 845-16 & Refer ADR 13/00	E1 3223 R19
1145CHROME	002608-02	50/00	Front Fog Lamp	YC1255	H3	FF*1145*A	31075	911-351-37	915
1162	004700-02	50/00	Front Fog Lamp	YC1255	H3	FF*1162*A	15136	911-351-38	8390R19
1307	956329-01	46/00	High Beam Headlamp	YC1255	H3	HL*1307*A	15121	911-351-42	24556R8
1308	005750-30	46/00	High Beam Headlamp	YC1255	H3	HL*1308*A	15139	911-351-43	0444404R8
1309	005700-11	46/00	High Beam Headlamp	YC1255	H3	HL*1309*A	15132	911-351-44	0444410R8
1309CHROME	003590-41								
1310	005860-03	46/00	High Beam Headlamp	YC1255	H3	HL*1310*A	15220	911-351-45	044442
1311	006300-12	46/00	High Beam Headlamp	YC1255	H3	HL*1311*A	15254	911-351-46	0444444
1311BLUE	006300-26								
1316CHROME	002537-19	46/00	High Beam Headlamp	YC1255	H3	HL*1316*A	30100	911-353-64	14520R8
1318	008773-00	46/00	High Beam Headlamp	CA1255	H7	HL*1318*A	32057	911-353-82	1655
1322	008283-01	46/00	High Beam Headlamp	CA1255	H7	HL*1322*A	26822	911-353-44	041210
1323	008284-01	46/00	High Beam Headlamp	CA1255	H7	HL*1323*A	26823	911-353-46	041212
1324	001951-00	46/00	High Beam Headlamp	YC1255	H3	N/A ECE	HR 01 12.5 E1 3221	HKG 460 845-16 & Refer ADR 13/00	E1 3221 R112
1325	001952-00	46/00	High Beam Headlamp	YC1255	H3	N/A ECE	HR 01 17.5 E1 3222	HKG 460 845-16 & Refer ADR 13/00	E1 3222 R112
1326	001953-00	46/00	High Beam Headlamp	YC1255	H3	N/A ECE	HR 01 12.5 E1 3223	HKG 460 845-16 & Refer ADR 13/00	E1 3223 R112
1363	004700-15	46/00	High Beam Headlamp	CD1255	H2	HL*1363*A	15141	911-351-51	34518R8
1364	004700-43	46/00	High Beam Headlamp	CD1255	H2	HL*1364*A	15353	911-353-05	0434518
1371	008273-00	46/00	High Beam Headlamp	C1255	H1	HL*1371*A	26741	911-353-40	04HR 999
1373	008273-04	77/00	High Beam Headlamp	XN4000	D2S	HL*1373*A	26742	911-353-41	00DR 999
1376BLUE	007560-13	46/00	High Beam Headlamp	C1255	H1	HL*1376*B	32428	911-353-85	44484
		49/00	Front Position Lamp	W125	W5W	FP*1376*A	32432		
1376BLUEHB	007560-32	46/00	High Beam Headlamp	C1255	H1	HL*1376HB*A	36324	911-355-08	1928
		49/00	Front Position Lamp	W125	W5W	FP*1376HB*A	36325		
1378	009094-02	46/00	High Beam Headlamp	C1255	H1	HL*1378*A	33671	911-353-94	00 1901
1378BLUE	009094-171								
1378CHROME	009094-03								
1382	009094-141	77/00	High Beam Headlamp	XN4001	D1S	HL*1382*B	36044	911-355-07	02 2087
1384	009094-311	77/00	High Beam Headlamp	XN4001	D1S	N/A ECE	E1 002087	HKG 460 818-21 & Refer ADR 13/00	E1 002087
1389LED	011002-001	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	HR PL 01 40 E1 3161	HKG 460 818-26 & Refer ADR 13/00	E1 3161
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE	PL 02 A E1 3161		
1393	010119-01	46/00	High Beam Headlamp	C1255	H1	HL*1378*A	33671	HKG 460 719-11 & Refer ADR 13/00	00 1901
1393CHROME	010119-11								
1394LED	011815-00	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	HR PL 01 45 E1 3738	HKG 460 818-29 & Refer ADR 13/00	E1 3738
1394LEDHD	011815-03								
1395	958 040-02	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 112R-010008	460 881-50	E24 20 0008
1396	958 040-06	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 112R-010009	460 881-50	E24 30 0009
1403	003030-17	1/00	Reversing Lamp	R1221	P21W	RL*1403*A	30830	911-353-73	8726
1405	003014-09	1/00	Reversing Lamp	R1221	P21W	RL*1405*A	15131	911-351-53	8703R23
		1/00	Reversing Lamp	R1221	P21W	RL*1406*A	15130		
1406	003236-31	1/00	Front Position Lamp or Front End Outline Lamp	G125	R5W	FP*1406*B	15292	911-351-54	8728R23
		49/00							

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1408	997506-15	1/00	Reversing Spotlamp	YC1255	H3	RL*1408*A	37918	911-355-11	23005
1410	005860-15	1/00	Reversing Spotlamp	YC1255	H3	RL*1410*A	37919	911-355-12	2186
1413	002694-00	1/00	Reversing Lamp	R1221	P21W	RL*1413*A	15129	911-351-57	8708R23
1430-H	959070-50	1/00	Reversing Lamp	LED	N/A LED	RL*1430-H*A	36417	959-150-10	9060
1430-V	959070-55					RL*1430-V*A	36418		
1433	959820-00	1/00	Reversing Lamp	LED	N/A LED	RL*1433*A	33190	959-149-69	9020
1446-H	959041-30	1/00	Reversing Lamp	LED	N/A LED	RL*1446-H*A	35980	959-149-95	9040
1446-V	959041-40					RL*1446-V*A	36243		
1447L	959041-37	1/00	Reversing Lamp	LED	N/A LED	1447*RV*C	45662	958-780-84	9040
1447R	959041-36								
1459	959930-12	1/00	Reversing Lamp	LED	N/A LED	RL*1465*A	35981	959-150-19	9930
1461	980762-01	1/00	Reversing Lamp	LED	N/A LED	RL*1461*A	45442	958-780-72	0760
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
1465	959930-00	1/00	Reversing Lamp	LED	N/A LED	RL*1465*A	35981	959-150-04	9930
1467	959930-11	1/00	Reversing Lamp	LED	N/A LED	RL*1465*A	35981	959-150-18	
1468	980889-00	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0027	958-315-25	0880D
1468-24V	980889-20	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0027	958-315-25	
1468V	980889-10	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0028	958-315-26	0880E
1468V-24V	980889-30	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0028	958-315-26	
1490	959010-50	1/00	Reversing Lamp	LED	N/A LED	RL*1490*A	36253	959-150-16	9010
2000	901227-24	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2000*A	15243	911-351-58	910001
2006	910315-04	45/01	Side Marker Lamp	L125	C5W	SM*2006*A	15148	911-351-60	910320
2009	900711-26	45/01	Side Marker Lamp	L125	C5W	SM*2009*A	15245	911-351-63	900627
		49/00	Front Position Lamp	L125	C5W	FP*2009*A	15307		
2019	950059-04	45/01	Cab Marker Lamp	GD125	R5W	CM*2019*A	15217	911-351-66	950065
		49/00	Front End Outline Lamp	GD125	R5W	FEO*2019*A	15356		
2026 & HM2026 & HM2026D	959660-30	45/01	Cab Marker Lamp	LED	N/A LED	CM*2026*A	25025	959-149-17	9560
		6/00:Cat 5	Supp. Side Direction Indicator Lamp			SDI*2026*A	25725		
2027	980660-10	45/01	Cab Marker Lamp	LED	N/A LED	CM*2027*A	42856	980-703-13	6600
2027P		6/00:Cat 5	Supp. Side Direction Indicator Lamp			SDI*2027*A	42857		
2029	900139-01	45/01	Side Marker Lamp	L125	C5W	SM*2029*A	15143	911-351-69	910049
2030	900139-02	6/00:Cat 5	Supp. Side Direction Indicator Lamp	L125	C5W	FL*2030*A	15146	911-351-70	910049
2031	959700-00	6/00:Cat 5	Supp. Side Direction Indicator Lamp	LED	N/A LED	SDI*2031*A	30768	959-149-55	9700
2033	959700-20	45/01	Side Marker Lamp	LED	N/A LED	SM*2033*A	31432	959-149-58	9700
2037	900139-04	45/01	Side Marker Lamp	L125	C5W	SM*2037*A	15144	911-351-72	910049
2038	900139-05	6/00:Cat 5	Supp. Side Direction Indicator Lamp	L125	C5W	FL*2038*A	15196	911-351-73	910049
2041LED-H	2041LED-H	1/00	Reversing Lamp	LED	N/A LED	RL*1446-H*A	35980	959-149-95	9040
2041LED-V	2041LED-V					RL*1446-V*A	36243		
2042	905055-01	45/01	Side Marker Lamp	M123	N/A Type M123	SM*2042*A	15192	911-351-74	910089
2043	910663-09	1/00	Reversing Lamp	R1221	P21W	RL*2043*A	15111	911-351-75	R.D.68158
2044	905055-02	6/00:Cat 5	Supp. Side Direction Indicator Lamp	M123	N/A Type M123	DI*2044*A	16360	911-351-83	910089
2046 & 2046PC	958607-02	1/00	Reversing Lamp	R1221	P21W	RL*2046*A	15329	911-352-89	HNZ01
		49/00	Front Position Lamp or Front End Outline Lamp	G125	R5W	FP*2046*A	15352		
2047	963639-00	74/00 SM1	Side Marker Lamp : SM1	LED	N/A LED	N/A ECE	SM1 00 E24V5881	Refer ADR 13/00	SM1 00 E24 5881
		47/00	Retro Reflector (Amber Side)	N/A	N/A				
2048	963639-01	74/00 : SM1	Side Marker Lamp : SM1	LED	N/A LED	N/A			
		47/00	Retro Reflector (Amber Side)	N/A	N/A				
2051 & HM2051 & HM2051D	959570-30	49/00	Front End Outline Lamp	LED	N/A LED	FEO*2051*A	25032	959-149-19	9560
2051GMD	959570-10	49/00	Front End Outline Lamp	LED	N/A LED	FEO*2051X*A	40676	959-150-79	9560

3RD EDITION ADR REFERENCE GUIDE

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2053 & 2053PC & HM2053PC & HM2053PCD & 2053GMD	959660-50	45/01	Side Marker Lamp	LED	N/A LED	SM*2053*A	24743	959-149-16	9560
2054 & HM2054 & HM2054D	959570-40	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	N/A ECE	A 02 E24 0051	959-149-25	02 7575
2054GMD	959570-50	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	FP*2054*A	40677	959-150-80	9560
2055	959590-40	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	N/A ECE	A 02 E24 0054	959-149-26	E4 02 7597
2056	959590-30	49/00	Front End Outline Lamp	LED	N/A LED	FEO*2056*A	27380	959-149-38	9590
2057	959650-00	45/01	Cab Marker Lamp	LED	N/A LED	CM*2057*A	27432	959-149-42	9650
2058	980660-00	45/01	Side Marker Lamp	LED	N/A LED	SM*2058*A	41597	980-703-13	6600
2058P	980660-02								
2059	980855-01	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	FP*2059*A	45233	958-780-67	0855
2059S	980855-02								
2060	980855-20	49/00	Front End Outline Lamp	LED	N/A LED	FEO*2060*A	45630	958-780-70	0855
2060S	980855-21								
2061	980660-20	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	TBA	TBA	958-780-95	6600
2061P	980660-21								
2062	980660-22	49/00	Front End Outline Lamp	LED	N/A LED	TBA	TBA	958-780-96	6600
2062P	980660-30								
2063	900741-25	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2063*A	15282	911-351-76	10833
2064	003014-07	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2064*A	15177	911-351-77	11793R7
2065	001227-24	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2065*A	15244	911-351-78	2254
2066	006679-00	49/00	Front Position Lamp or Front End Outline Lamp	G1210	R10W	FP*2066*A	15253	911-351-79	0121691
2067	006679-01	45/01	Cab Marker Lamp	G125	R5W	CM*2067*A	15361	911-353-23	TV25
		49/00	Front End Outline Lamp	G125	R5W	FEO*2067*A	15360		
2071	980990-40	49/00	Front End Outline Lamp	LED	N/A LED	2071*FEOM*C	45943	958-780-90	0990
2073	980990-00	45/01	Side Marker Lamp	LED	N/A LED	2073*SML*C	45809	958-780-87	0990
2074	980990-20	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	2074*FEOM*C	45944	958-780-89	0990
2076	980990-10	45/01	Cab Marker Lamp	LED	N/A LED	2076*ECM*C	45810	958-780-88	0990
		6/00:Cat 5	Supp.Side Direction Indicator Lamp			2076*SDI*C	45811		
2077	901227-06	6/00:Cat 5	Supp.Side Direction Indicator Lamp			DI*2077*A	15204	911-351-80	910001
		49/00	Front End Outline Lamp	L125	C5W	FEO*2077*A	25617		
2078	901227-23	49/00	Rear Position Lamp or Rear End Outline Lamp	L125	C5W	RR*2078*A	15250	911-351-81	910001
2083	980868-04	45/01	Side Marker Lamp	LED	N/A LED	2083*SM*C	47116	958-315-32	0868
2083S	980868-06								
2100	901227-04	6/00:Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2100*A	15212	911-351-88	910001
2101	002939-17	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	DI*2101*A	29439	911-353-58	32710
2103-12V	008260-01	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2103*A	32646	911-353-90	01989
2103-24V	008260-00								
2105	959932-20	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	959-150-24	9930
2105CLR	959932-21	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105C*A	40148		
2105CLR-CS	959932-05	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	1 01 E24 0023	959-150-93	1 01 E24 0023
2105-CS	959932-01	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	1 01 E24 0023	959-150-93	1 01 E24 0023
2106-CS	959932-13	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	1 01 E24 5851	959-150-92	1 01 E24 5851
		49/00	Front Position Lamp				A 02 E24 5851		A 02 E24 5851
2107	959011-10	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2107*A	41601	980-703-19	9010
2107CLR	959011-11		Front Direction Indicator Lamp				DI*2107C*A		

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2108-GMD	980691-11	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-70	0690				
2108-GMD24V	980690-00	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-29	0690				
		76/00	Daytime Running Lamp										
2109	980888-30	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	2109*FDI*C	46349	958-315-01	0880				
2109-24V	980888-40		210924H*DI*C			46348							
2109V	980888-50		2109V*FDI*C			46347							
2109V-24V	980888-60	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	210924V*DI*C	46346	958-315-20	0880B				
2117	001227-23	6/00:Cat 5	Supp.Side Direction Indicator Lamp			L125	C5W			FL*2117*A	15193	911-351-89	2254
2126	905626-04	49/00	Front End Outline Lamp	R1221	P21W	FL*2126*A	15271	911-351-98	905628				
		6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp.Side Direction Indicator Lamp										
		6/00:Cat 5	Supp.Side Direction Indicator Lamp							G125	R5W	FL*2126*B	15300
2127	900763-29	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp.Side Direction Indicator Lamp	R1221	P21W	FL*2127*A	15272	911-351-99	R.D.10833				
		6/00:Cat 5	Supp.Side Direction Indicator Lamp							G125	R5W	FL*2127*B	15301
2128	900763-30	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*2128*A	15273	911-352-00	R.D.10833				
		6/00:Cat 5	Supp.Side Direction Indicator Lamp							G125	R5W	SDI*2128*A	15306
2128LED	959932-30	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	959-150-25	9930				
2128LEDCLR	959932-35					DI*2105C*A	40148						
2129	900763-31	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp. Side Direction Indicator Lamp	FD1221	P21W (DC)	DI*2129*A	15304	911-352-76	R.D.10833				
		6/00:Cat 5	Supp. Side Direction Indicator Lamp							GD125	R5W (DC)	DI*2129*B	15305
2130	959011-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2130*A	30649	959-149-50	9010				
2131-CS	959932-15	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	1 01 E24 5851	980-703-03	1 01 E24 5851				
		49/00	Front Position Lamp				A 02 E24 5851		A 02 E24 5851				
2132-CS	959932-16	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	1 01 E24 5851	980-703-04	1 01 E24 5851				
		49/00	Front Position Lamp				A 02 E24 5851		A 02 E24 5851				
2133	959822-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2133*A	33191	959-149-71	9020				
2133CS	959822-60												
2133-24V	959021-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2133-24V*A	30442	959-149-53	9020				
2135 & 2135PC	900739-10	6/00:Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2135*A	15270	911-352-02	10833				
		49/00	Front End Outline Lamp							L125	C5W	FEO*2135*A	25578
2135LED	959932-31	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	959-150-26	9930				
2135LEDCLR	959932-36	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105C*A	40148						
2135LEDCLR-CS	959932-08	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	1 01 E24 0023	980-703-01	1 01 E24 0023				
2135LED-CS	959932-03												
2136	900741-21	6/00:Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2136*A	15211	911-352-03	10833				
		49/00	Front End Outline Lamp							L125	C5W	FEO*2136*A	25579
2136LED	959932-32	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	959-150-27	9930				
2136LEDCLR	959932-37									DI*2105C*A	40148		
2136LEDCLR-CS	959932-07	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	1 01 E24 0023	980-703-02	1 01 E24 0023				
2136LED-CS	959932-04												
2138	959031-00	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44203	958-780-39	9030				
						24V Horiz	44204						
						12V Vert	44205						
						24V Vert	44209						
47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948								
2140	900947-00	6/00:Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2140*A	15190	911-352-04	52612				
		49/00	Front End Outline Lamp							L125	C5W	FEO*2140*A	25580
2141	900947-05	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2141*A	15176	911-352-05	52612				
2142	905141-02	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp.Side Direction Indicator Lamp	R1221	P21W	FL*2142*C	15318	911-352-06	53174				
		6/00:Cat 5	Supp.Side Direction Indicator Lamp							G125	R5W	FL*2142*B	15203
		6/00:Cat6	Supp.Side Direction Indicator Lamp							R1221	P21W	FL*2142*D	30062

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2143	910663-08	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2143*A	15110	911-352-07	R.D.68158
		49/00	Front End Outline Lamp	G125	R5W	FE0*2143*A	25523		
2144LED-H	2144LED-H	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-H*A	26179	959-149-30	9040
2145 & 2145PC	958607-00	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2145*A	15330	911-352-90	HNZ01
		49/00	Front End Outline Lamp	G125	R5W	FE0*2145*A	25577		
2146-H	959041-10	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-H*A	26179	959-149-30	9040
2146-HCS	959041-51					DI*2146-H24*A	34498	959-150-57	
2146-H24	959041-50					DI*2146-V*A	26180	959-149-88	
2146-V	959041-20					DI*2146-VCS*A	40650	959-150-57	
2146-VCS	959041-71					DI*2146-V24*A	36718	959-149-88	
2146-V24	959041-70								
2147	003014-01	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2147*A	15168	911-352-11	32619R6
		49/00	Front End Outline Lamp	G125	R5W	FE0*2147*A	25759		
2148	003014-11	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*2148*A	15170	911-352-12	32661R6
		49/00	Front End Outline Lamp	G125	R5W	FE0*2148*A	25761		
2149	003236-32	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2149*A	15171	911-352-13	6R0132764
		49/00	Front End Outline Lamp	G125	R5W	FE0*2149*A	25760		
2150	005603-00	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp.Side Direction Indicator Lamp	R1221	P21W	FL*2150*A	15172	911-352-14	6R0142748
		49/00	Front End Outline Lamp	G125	R5W	FE0*2150*A	25763		
2151	959070-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44206	958-780-37	9060
2151-H	959070-35	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	FL*2151-H*A	36420	959-150-11	2a01 E24 5850
2151-HCS	980607-00					FL*2151-V*A	36421	9060	
2151-V	959070-25					DI*2151-VCS*A	2a 01 E24 5850	959-150-56	2a01 E24 5850
2151-VCS	980607-50					24V Horiz	44192		
2152	959070-20	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Vert	44193	958-780-38	9060
						24V Vert	44194		
2153	006692-01	6/00:Cat 6	Supp.Side Direction Indicator Lamp	R1221	P21W	SDI*2153*B	30495	911-353-69	52621
2154	006692-02	6/00:Cat 6	Supp.Side Direction Indicator Lamp	R1221	P21W	SDI*2154*B	30497	911-353-70	
2155	008355-00	6/00:Cat 6	Supp.Side Direction Indicator Lamp	R1221	P21W	SDI*2155*A	30498	911-353-71	1059
2155CLR	008355-01	6/00:Cat 6	Supp.Side Direction Indicator Lamp	RY1221	PY21W	SDI*2155CLR*A	E1 011848		1848
2156	959075-50	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2156*A	26483	959-149-28	9074
2156-24V	959075-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2156-24V*A	26104	959-149-29	
2157	003236-17	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	DI*2157*A	30405	911-353-72	42730
		6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	DI*2158*A	31781		
		6/00:Cat 5	Supp.Side Direction Indicator Lamp	R1221	P21W	SDI*2158*A	31802	911-353-78	536
		49/00	Front Position Lamp	W125	W5W	FP*2158*A	31807		
2159	959932-72	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2165*B	36056	959-150-23	9930
2159-CS	959932-54	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	N/A ECE	2a 01 E24 0023	980-703-06	2a01 E24 0023
2161	980761-01	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2161*A	45443	958-780-73	0760
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2161-CS	980761-02	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2161*A	45443	958-780-74	0760
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2165	959932-50	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2165-B	36056	959-150-06	9930
2165-CS	959932-51	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	N/A ECE	2a 01 E24 0023	959-150-94	2a01 E24 0023
2167	959932-71	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2165-B	36056	959-150-22	9930
2167-CS	959932-53	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	N/A ECE	2a 01 E24 0023	980-703-05	2a01 E24 0023
2168	980888-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2168*A	46435	958-315-02	0880C
2168-24V	980888-20	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2168-24V*A	46434		
2303	901227-19	49/00	Stop Lamp	K1221	C21W	RR*2303*A	15249	911-352-15	910001
2305	345600-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A ECE	R02-E24 5881	Refer ADR 13/00	R02-E24 5881
		47/00	Retro Reflector (Red/Rear)	N/A	N/A				

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification																																																																																																																																																																																																																																																																																																																																																
2306	345600-31	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A ECE	R02-E24 5881	Refer ADR 13/00	R02-E24 5881																																																																																																																																																																																																																																																																																																																																																
		47/00	Retro Reflector (Red/Rear)	N/A	N/A					2307 & HM2307 & HM2307D	959560-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2307*A	25009	959-149-18	02 7574	2307GMD	959560-10	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2307X*A	40680	959-150-81	9560	2308	959 610-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A ECE	E4 7R 02 7597	959-149-20	E4 7R 02 7597	2309	959700-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RR*2309*A	31431	959-149-59	9700	2310	980855-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RR*2310*A	45631	958-780-71	0855	2310S	980855-31	2311	980660-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	2311*RP*C	46859	958-780-71	6600	2311P	980660-42	2312	980990-60	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	2312*REOM*C	45945	958-780-91	0990	2314 & 2314PC	900739-11	49/00	Rear Position / Stop Lamp	L125/K1221	C5W/ C21W	RR*2314*A	15316	911-352-83	10833	2315	900741-22	RR*2315*A	15310	911-352-84	2317	959030-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948	959-149-05	9030	49/00	Rear Position : Horizontal	LED	N/A LED	RP*2317H*A	42577	49/00	Stop : Horizontal	LED	N/A LED	ST*2317H*A	42579	49/00	Rear Position : Vertical	LED	N/A LED	RP*2317V*A	42578	49/00	Stop : Vertical	LED	N/A LED	ST*2317V*A	42582	2318	980887-00	49/00	Stop Lamp	LED	N/A LED	SL*2318*A	46360	958-780-99	0880C	Rear Position Lamp	RP*2318*A	46351	2318-24V	980887-20	49/00	Stop Lamp	LED	N/A LED	SL*2318-24V*A	46361	958-780-99	0880C	Rear Position Lamp	RP*2318-24V*A	46353	2319	910664-02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2319*A	15149	911-352-16	013051	49/00	Rear Position / Stop Lamp	SI221/5V	P21W/5W	RR*2319*A	15151	2320LED-H	2320LED-H	49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	9040	Rear Position Lamp	RP*2332-H24*A	34502	2321 & 2321PC	958606-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2321*A	15327	911-352-91	HNZ01	49/00	Rear Position / Stop Lamp	SI221/5V	P21W/5W	RR*2321*A	15328	2322	003236-34	49/00	Rear Position Lamp or Rear End Outline Lamp	G125	R5W	RR*2322*A	15173	911-352-18	7R0111591	2323	003236-33	49/00	Stop Lamp	R1221	P21W	RR*2323*A	15174	911-352-19	11589	2324	006679-02	49/00	Rear Position Lamp or Rear End Outline Lamp	G1210	R10W	RR*2324*A	15251	911-352-20	0131470	2325	003014-05	49/00	Rear Position Lamp or Rear End Outline Lamp	L125	C5W	RR*2325*A	15252	911-352-21	0131418	2330	959060-00	49/00	Rear Position Horizontal	LED	N/A LED	RP*2330H1*A	42558	959-149-00	9060	2330-H	959-060-35	49/00	Stop Lamp	LED	N/A LED	SL*2330-H*A	36428	959-150-12	9060	Rear Position Lamp	LED	N/A LED	RP*2330-H*A	36426	2330-V	959-060-25	49/00	Stop Lamp	LED	N/A LED	SL*2330-V*A	36429	959-150-12	9060	Rear Position Lamp	LED	N/A LED	RP*2330-V*A	36427	2331	959060-20	49/00	Stop : Horizontal	LED	N/A LED	ST*2330H1*A	42560	959-149-02	9060	Rear Position : Vertical	RP*2330V1*A	42559	Stop : Vertical	ST*2330I*A	42561	2332-H24	959040-5x	49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	9060	Rear Position Lamp	RP*2332-H24*A	34502	2332-V24	959040-70	49/00	Stop Lamp	LED	N/A LED	SL*2332-V24*A	36722	959-149-87	9060	Rear Position Lamp	RP*2332-V24*A	36721	2334	959074-50	49/00	Stop Lamp	LED	N/A LED	SL*2334*A	26486	959-149-27	9074	Rear Position Lamp	RP*2334*A	26484	2334-24V	959074-00	49/00	Stop Lamp	LED	N/A LED	SL*2334-24V*A
2307 & HM2307 & HM2307D	959560-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2307*A	25009	959-149-18	02 7574																																																																																																																																																																																																																																																																																																																																																
2307GMD	959560-10	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2307X*A	40680	959-150-81	9560																																																																																																																																																																																																																																																																																																																																																
2308	959 610-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A ECE	E4 7R 02 7597	959-149-20	E4 7R 02 7597																																																																																																																																																																																																																																																																																																																																																
2309	959700-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RR*2309*A	31431	959-149-59	9700																																																																																																																																																																																																																																																																																																																																																
2310	980855-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RR*2310*A	45631	958-780-71	0855																																																																																																																																																																																																																																																																																																																																																
2310S	980855-31																																																																																																																																																																																																																																																																																																																																																								
2311	980660-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	2311*RP*C	46859	958-780-71	6600																																																																																																																																																																																																																																																																																																																																																
2311P	980660-42																																																																																																																																																																																																																																																																																																																																																								
2312	980990-60	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	2312*REOM*C	45945	958-780-91	0990																																																																																																																																																																																																																																																																																																																																																
2314 & 2314PC	900739-11	49/00	Rear Position / Stop Lamp	L125/K1221	C5W/ C21W	RR*2314*A	15316	911-352-83	10833																																																																																																																																																																																																																																																																																																																																																
2315	900741-22					RR*2315*A	15310	911-352-84																																																																																																																																																																																																																																																																																																																																																	
2317	959030-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948	959-149-05	9030																																																																																																																																																																																																																																																																																																																																																
		49/00	Rear Position : Horizontal	LED	N/A LED	RP*2317H*A	42577																																																																																																																																																																																																																																																																																																																																																		
		49/00	Stop : Horizontal	LED	N/A LED	ST*2317H*A	42579																																																																																																																																																																																																																																																																																																																																																		
		49/00	Rear Position : Vertical	LED	N/A LED	RP*2317V*A	42578																																																																																																																																																																																																																																																																																																																																																		
		49/00	Stop : Vertical	LED	N/A LED	ST*2317V*A	42582																																																																																																																																																																																																																																																																																																																																																		
2318	980887-00	49/00	Stop Lamp	LED	N/A LED	SL*2318*A	46360	958-780-99	0880C																																																																																																																																																																																																																																																																																																																																																
			Rear Position Lamp			RP*2318*A	46351																																																																																																																																																																																																																																																																																																																																																		
2318-24V	980887-20	49/00	Stop Lamp	LED	N/A LED	SL*2318-24V*A	46361	958-780-99	0880C																																																																																																																																																																																																																																																																																																																																																
			Rear Position Lamp			RP*2318-24V*A	46353																																																																																																																																																																																																																																																																																																																																																		
2319	910664-02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2319*A	15149	911-352-16	013051																																																																																																																																																																																																																																																																																																																																																
		49/00	Rear Position / Stop Lamp	SI221/5V	P21W/5W	RR*2319*A	15151																																																																																																																																																																																																																																																																																																																																																		
2320LED-H	2320LED-H	49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	9040																																																																																																																																																																																																																																																																																																																																																
			Rear Position Lamp			RP*2332-H24*A	34502																																																																																																																																																																																																																																																																																																																																																		
2321 & 2321PC	958606-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2321*A	15327	911-352-91	HNZ01																																																																																																																																																																																																																																																																																																																																																
		49/00	Rear Position / Stop Lamp	SI221/5V	P21W/5W	RR*2321*A	15328																																																																																																																																																																																																																																																																																																																																																		
2322	003236-34	49/00	Rear Position Lamp or Rear End Outline Lamp	G125	R5W	RR*2322*A	15173	911-352-18	7R0111591																																																																																																																																																																																																																																																																																																																																																
2323	003236-33	49/00	Stop Lamp	R1221	P21W	RR*2323*A	15174	911-352-19	11589																																																																																																																																																																																																																																																																																																																																																
2324	006679-02	49/00	Rear Position Lamp or Rear End Outline Lamp	G1210	R10W	RR*2324*A	15251	911-352-20	0131470																																																																																																																																																																																																																																																																																																																																																
2325	003014-05	49/00	Rear Position Lamp or Rear End Outline Lamp	L125	C5W	RR*2325*A	15252	911-352-21	0131418																																																																																																																																																																																																																																																																																																																																																
2330	959060-00	49/00	Rear Position Horizontal	LED	N/A LED	RP*2330H1*A	42558	959-149-00	9060																																																																																																																																																																																																																																																																																																																																																
2330-H	959-060-35	49/00	Stop Lamp	LED	N/A LED	SL*2330-H*A	36428	959-150-12	9060																																																																																																																																																																																																																																																																																																																																																
			Rear Position Lamp	LED	N/A LED	RP*2330-H*A	36426																																																																																																																																																																																																																																																																																																																																																		
2330-V	959-060-25	49/00	Stop Lamp	LED	N/A LED	SL*2330-V*A	36429	959-150-12	9060																																																																																																																																																																																																																																																																																																																																																
			Rear Position Lamp	LED	N/A LED	RP*2330-V*A	36427																																																																																																																																																																																																																																																																																																																																																		
2331	959060-20	49/00	Stop : Horizontal	LED	N/A LED	ST*2330H1*A	42560	959-149-02	9060																																																																																																																																																																																																																																																																																																																																																
			Rear Position : Vertical			RP*2330V1*A	42559																																																																																																																																																																																																																																																																																																																																																		
			Stop : Vertical			ST*2330I*A	42561																																																																																																																																																																																																																																																																																																																																																		
2332-H24	959040-5x	49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	9060																																																																																																																																																																																																																																																																																																																																																
			Rear Position Lamp			RP*2332-H24*A	34502																																																																																																																																																																																																																																																																																																																																																		
2332-V24	959040-70	49/00	Stop Lamp	LED	N/A LED	SL*2332-V24*A	36722	959-149-87	9060																																																																																																																																																																																																																																																																																																																																																
			Rear Position Lamp			RP*2332-V24*A	36721																																																																																																																																																																																																																																																																																																																																																		
2334	959074-50	49/00	Stop Lamp	LED	N/A LED	SL*2334*A	26486	959-149-27	9074																																																																																																																																																																																																																																																																																																																																																
			Rear Position Lamp			RP*2334*A	26484																																																																																																																																																																																																																																																																																																																																																		
2334-24V	959074-00	49/00	Stop Lamp	LED	N/A LED	SL*2334-24V*A	26152	959-149-27	9074																																																																																																																																																																																																																																																																																																																																																
			Rear Position Lamp			RP*2334-24V*A	26151																																																																																																																																																																																																																																																																																																																																																		

3RD EDITION ADR REFERENCE GUIDE

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2359	959931-12	49/00	Stop Lamp	LED	N/A LED	ST*2365*B	36250	959-150-21	9930
			Rear Position Lamp			RP*2365*B	36078		
2361	980760-01	49/00	Stop Lamp	LED	N/A LED	ST*2361*A	45634	958-780-75	0760
			Rear Position Lamp			RP*2361*A	45632		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2365	959931-00	49/00	Stop Lamp	LED	N/A LED	ST*2365*B	36250	959-150-05	9930
			Rear Position Lamp			RP*2365*B	36078		
2366	959821-00	49/00	Stop Lamp	LED	N/A LED	SL*2366*A	33196	959-149-70	9020
			Rear Position Lamp			RP*2366*A	33198		
2366-24V	959020-00	49/00	Stop Lamp	LED	N/A LED	SL*2366-24V*A	30445	959-149-52	9020
			Rear Position Lamp			RP*2366-24V*A	30443		
2367	959931-11	49/00	Stop Lamp	LED	N/A LED	ST*2365*B	36250	959-150-20	9930
			Rear Position Lamp			RP*2365*B	36078		
2368	900807-01	6/00:Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	FL*2368*A	15278	911-352-26	69079
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2368*B	15279		
		48/00	Licence Plate Lamp	L1210	N/A	LP*2368*B	15289		
		49/00	Rear Position / Stop Lamp	L1210/ K1221	N/A/ C21W	RR*2368*B	16361		
2377	980710-01	6/00:Cat2a	Rear Direction Indicator Lamp			2377*RDI*C	45253	958-780-66	0710
		49/00	Stop Lamp	LED	N/A LED	2377*ST*C	45256		
			Rear Position Lamp			2377*RP*C	45254		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2377*RR*C	45255		
2378	980613-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	2378*RDI*C	45258	958-780-63	
2378-CS	980613-20		Stop Lamp			2378*ST*C	45260	958-780-64	0710
2378DT	980602-00	49/00	Rear Position Lamp	LED	N/A LED	2378*RP*C	45259	958-780-65	
2378DTCS	980602-20		Rear Position Lamp			2378*07*RP*C	45257	958-780-68	
2379 & HM2379 & HM2379D	959050-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2379*A	30916	959-149-47	9050
		49/00	Stop Lamp	LED	N/A LED	SL*2379*A	30919		
2379-CS	959050-40	49/00	Rear Position Lamp	LED	N/A LED	RP*2379*A	30917	959-150-55	
2379-GMD	959050-41								
2380	980603-50	6/00:Cat 2a	Rear Direction Indicator Lamp			DI*2380*A	43630		
HM2380	980603-51	49/00	Stop Lamp	LED	N/A LED	SL*2380*A	43632	958-780-05	9050
HM2380D	980603-52		Rear Position Lamp			RP*2380*A	43631		
2380GMD	980603-55							958-780-05	
2380DT	980615-01	1/00	Reversing Lamp	LED	N/A LED	RL*2380*A	43628	958-780-35	9050
2380DTGMD	980615-05								
HM2380DT	980615-02								
2383-24VCS	980613-51	6/00:Cat 2a	Rear Direction Indicator Lamp				E24 6R-015894	958-315-28	
2383-DT24VCS	980602-51	49/00	Stop Lamp	LED	N/A LED	N/A ECE	E24 7R-025894	958-315-27	0710
		49/00	Rear Position Lamp						
		1/00	Reversing Lamp						
2384	003014-14	48/00	Licence Plate Lamp	L125	C5W	LP*2384*A	15175	911-352-30	231453
		49/00	Rear Position / Stop Lamp	L125/R1221	C5W/ P21W	RR*2384*A	15167		
2390	959010-00	49/00	Stop Lamp	LED	N/A LED	SL*2390*A	30651	959-149-51	9010
			Rear Position Lamp			RP*2390*A	30650		
2391	980980-00	1/00	Reversing Lamp			2391*RV*C	45251	958-780-58	0980
		6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	2391*RDI*C	45258		
		49/00	Stop Lamp			2391*ST*C	45262		
			Rear Position Lamp			2391*RP*C	45261		
47/00	Retro Reflector (Red/Rear)	N/A	N/A			2391*RR*C	45250		

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2392L	980980-01	1/00	Reversing Lamp	LED	N/A LED	2392*RV*C	45267		
2392R	980980-02	6/00:Cat 2a	Rear Direction Indicator Lamp			2392*RD1*C	45264	958-780-59	0980
	49/00	Stop Lamp	LED	N/A LED	2392*STC	45268			
		Rear Position Lamp			2392*RP*C	45265			
	47/00	Retro Reflector (Red/Rear)	N/A	N/A	2392*RR*C	45266			
	48/00	Licence Plate Lamp	N/A	N/A	2392*LP*C	45263			
2394	980720-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2394*B	42034	980-703-20	0720
2394-12V	980720-20	49/00	Stop Lamp	LED	N/A LED	SL*2394*A	42037	980-703-56	0720
		Rear Position Lamp			RP*2394*A	42036			
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2395*RR*C	46508		
2395	980720-40	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2395*B	42030	980 703-21	0720
2395-12V	980720-60	49/00	Stop Lamp	LED	N/A LED	SL*2395*C	42179	958-780-57	0720
		Rear Position Lamp			RP*2395*C	42178			
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2395*RR*C	46508		
		48/00	Licence Plate Lamp	LED	N/A LED	LP*2395*C	42175		
		6/00:Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	FL*2396*A	15239		
48/00	Licence Plate Lamp	L125	C5W	LP*2396*A	15280				
49/00	Rear Position / Stop Lamp	L125/K1221	C5W/ C21W	RR*2396*A	15238				
2397	905168-00	6/00:Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	FL*2397*A	15258	911-352-32	953811
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2397*A	15261		
		49/00	Rear Position / Stop Lamp	L125/K1221	C5W/ C21W	RR*2397*A	15265		
2398	905070-00	6/00:Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	FL*2398*A	15259	911-352-33	R.D.54508
		49/00	Rear Position / Stop Lamp	L125	C5W/ C21W	RR*2398*A	15266		
2399	959010-20	6/00:Cat 2a	Rear Direction Indicator Lamp			DI*2399*A	37114	959-150-30	9010
		49/00	Stop Lamp	LED	N/A LED	SL*2399*A	37116		
			Rear Position Lamp			RP*2399*A	37115		
2400	910036-01	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2400*A	15260	911-352-34	953811
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2400*A	15262		
		48/00	Licence Plate Lamp	G1210	R10W	LP*2400*A	15263		
		49/00	Rear Position / Stop Lamp	G1210/ R1221	R10W/ P21W	RR*2400*A	15267		
2414	604011	1/00	Reversing Lamp	R1221	P21W	RL*2414*A	29428	911-353-56	9385/9531
		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2414*A	29426		
		49/00	Stop Lamp	R1221	P21W	SL*2414*A	29429		
		49/00	Rear Position Lamp	G1210	R10W	RP*2414*A	29430		
2415	604012	1/00	Reversing Lamp	R1221	P21W	RL*2414*A	29428	911-353-57	9385/9531
		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2414*A	29426		
		49/00	Stop Lamp	R1221	P21W	SL*2414*A	29429		
		49/00	Rear Position Lamp	G1210	R10W	RP*2414*A	29430		
2416LED	2416LED	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44203	959-150-39	9030
						24V Horiz	44204		
						12V Vert	44205		
						24V Vert	44209		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
		49/00	Rear Position : Horizontal			RP*2317H*A	42577		
		49/00	Stop : Horizontal	LED	N/A LED	ST*2317H*A	42579		
49/00	Rear Position : Vertical			RP*2317V*A	42578				
49/00	Stop : Vertical			ST*2317V*A	42582				
2419	003184-03	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2419*A	15160	911-352-42	7R0153253
		49/00	Rear Position / Stop Lamp	G1210/ R1221	R10W/ P21W	RR*2419*A	15161		

3RD EDITION ADR REFERENCE GUIDE

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2420	003184-10	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2420*A	15223	911-352-43	7R0153253
		48/00	Licence Plate Lamp	G1210	R10W	LP*2420*A	15159		
		49/00	Rear Position / Stop Lamp	G1210/ R1221	R10W/ P21W	RR*2420*A	15222		
2421	004623-00	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2421*A	15208	911-352-44	7R01763
		48/00	Licence Plate Lamp	G1210	R10W	LP*2421*A	15210		
		49/00	Rear Position / Stop Lamp	G1210/ R1221	R10W/ P21W	RR*2421*A	15209		
2422	958562-00	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2422*A	15320	911-352-81	HNZ01
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2422*A	15324		
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2422*A	15323		
2422LED	2422LED	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44203	959-150-38	9030
						24V Horiz	44204		
						12V Vert	44205		
						24V Vert	44209		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
		49/00	Rear Position : Horizontal	LED	N/A LED	RP*2317H*A	42577		
			Stop : Horizontal			ST*2317H*A	42579		
Rear Position : Vertical	RP*2317V*A		42578						
						ST*2317V*A	42582		
2423	958616-00	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2423*A	15338	911-352-92	HNZ01
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2423*A	15339		
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2423*A	15340		
2424	958616-01	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2424*A	15342	911-352-93	HNZ01
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2424*A	15343		
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2424*A	15344		
		1/00	Reversing Lamp	R1221	P21W	RL*2424*A	15341		
2424LED-H	2424LED-H	1/00	Reversing Lamp	R1221	P21W	RL*2424*A	15341	911-352-93	HNZ01
		6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-H24*A	34498	959-149-88	9040
		49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	
49/00	Rear Position Lamp			RP*2332-H24*A	34502				
2426-H	959-040-801	6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-H24*A	34498	959-149-88	9040
		49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	
		49/00	Rear Position Lamp			RP*2332-H24*A	34502		
2426-V	959-040-901	6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-V24*A	36718	959-149-88	9040
		49/00	Stop Lamp	LED	N/A LED	SL*2332-V24*A	36722	959-149-87	
		49/00	Rear Position Lamp			RP*2332-V24*A	36721		
2427-H	959-040-811	6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-H24*A	34498	959-149-88	9040
		49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	
		49/00	Rear Position Lamp			RP*2332-H24*A	34502		
2427-V	959-040-911	6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-V24*A	36718	959-149-88	9040
		49/00	Stop Lamp	LED	N/A LED	SL*2332-V24*A	36722	959-149-87	
		49/00	Rear Position Lamp			RP*2332-V24*A	36721		
2428-H	959-041-811	1/00	Reversing Lamp			RL*1446-H*A	35980	959-149-95	9040
		6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-H24*A	34498	959-149-88	
		49/00	Stop Lamp			SL*2332-H24*A	34509	959-149-87	
		49/00	Rear Position Lamp			RP*2332-H24*A	34502		
2428-V	959-041-911	1/00	Reversing Lamp			RL*1446-V*A	36243	959-149-95	9040
		6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-V24*A	36718	959-149-88	
		49/00	Stop Lamp			SL*2332-V24*A	36722	959-149-87	
		49/00	Rear Position Lamp			RP*2332-V24*A	36721		

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2429	980760-80	6/00:Cat2a	Rear Direction Indicator Lamp	LED	NA/LED	DI*2161*A	45443		
2429-CS	980761-80	49/00	Stop Lamp	LED	NA/LED	ST*2361*A	45634	958-780-73/74 958-780-75	0760
		49/00	Rear Position Lamp			RP*2361*A	45632		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2430	980760-80	6/00:Cat2a	Rear Direction Indicator Lamp	LED	NA/LED	DI*2161*A	45443		
2430-CS	980761-80	49/00	Stop Lamp	LED	NA/LED	ST*2361*A	45634	958-780-73/74 958-780-75	0760
		49/00	Rear Position Lamp			RP*2361*A	45632		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2431	980760-82	6/00:Cat2a	Rear Direction Indicator Lamp	LED	NA/LED	DI*2161*A	45443		
2431-CS	980761-82	49/00	Stop Lamp	LED	NA/LED	ST*2361*A	45634	958-780-73/74 958-780-75	0760
		49/00	Rear Position Lamp			RP*2361*A	45632		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
		1/00	Reversing Lamp	LED	NA/LED	RL*1461*A	45442	958-780-72	0760
2550	001386-28	48/00	Licence Plate Lamp	L125	C5W	LP*2550*A	15157	911-352-45	12820
2553	951068-02	48/00	Licence Plate Lamp	G1210	R10W	LP*2553*A	15150	911-352-47	E1 22819
2555	001389-10	48/00	Licence Plate Lamp	L125	C5W	LP*2555*A	15156	911-352-49	12815R4
2557	900967-03	48/00	Licence Plate Lamp	HL124	T4W (2 Pieces)	LP*2557*A	15207	911-352-50	4151
2558	004525-00	48/00	Licence Plate Lamp	L125	C5W(2 Pieces)	LP*2558*A	15326	911-352-85	22861
2559	959640-00	48/00	Licence Plate Lamp	LED	N/A LED	LP*2559S*A	42545	959-149-35	9590
2559-1	959640-30	48/00	Licence Plate Lamp	LED	N/A LED	LP*2559H*A	41602	980-703-00	9640
2560	980869-00	48/00	Licence Plate Lamp	LED	N/A LED	2560*LP*C	46799	958-315-24	0855
2902	002016-11	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2902*A	15180	911-352-51	0231290
2910	900913-04	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2910*A	15182	911-352-53	0231290
2915	002014-23	47/00	Retro Reflector (Red/Rear)	N/A	N/A	NA/ECE	E243R020030	911-352/3-55/50	020030
2916	002014-25	47/00	Retro Reflector (Amber/Side)	N/A	N/A	NA/ECE	E243R020030	911-352/3-56/48	020030
2917	002014-24	47/00	Retro Reflector (White/Front)	N/A	N/A	NA/ECE	E243R020030	911-352/3-57/49	020030
2919	004412-00	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2919*A	15233	911-352/3-58/48	02338
2920	004412-02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2920*A	15294	911-352/3-70/50	02338
2921	004412-01	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2921*A	15293	911-352/3-71/49	02338
2922	003326-04	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2922*A	15237	911-352/3-59/48	0292031
2922-2/200	003326-01	47/00	Retro Reflector (Amber/Side)	N/A	N/A	NA/ECE	E1 02 21395 R 3	911-352/3-59/48	0292031
2923	003326-03	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2923*A	15296	911-352/3-72/50	0292031
2923-2BULK	003326-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	NA/ECE	E1 02 21395 R 3	HKG & ADR13/00	E1 0221395
2924	003326-05	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2924*A	15295	911-352/3-73/49	0292031
2924-2BULK	003326-02	47/00	Retro Reflector (White/Front)	N/A	N/A	NA/ECE	E1 02 21395 R 3	HKG & ADR13/00	E1 0221395
2925	004713-00	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2925*A	15234	911-352/3-60/48	02353
2926	342007-10	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2926*A	15298	911-352/3-74/50	02353
2927	342007-20	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2927*A	15297	911-352/3-75/49	02353
2934-H	980565-10	47/00	Retro Reflector (Red /Rear)	N/A	N/A	RE*2934-H*A	38243	959-150-34	5651
2934-V	980565-50	47/00	Retro Reflector (Red /Rear)	N/A	N/A	RE*2934-V*A	38244	959-150-34	5655
5237	959190-12	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	BL*5237*B	15350	911-352-64A	523
5238	959191-12	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	BL*5238*B	15349	911-352-65A	523
5239	959192-12	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	BL*5239*B	15351	911-352-66A	523
5242	006631-00	49/00 Cat S3	Centre High Level Brake Lamp	W1221	W16W	BL*5242*A	15290	911-352-08	5242
5243	959071-53	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	8-5243-08	23071	959-089-01	27547
5245	980887-30	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	5245*12*ST*C	45934	958-780-83	0880A
5245-24V	980887-40	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	5245*24*ST*C	45935		
5603	008362-80	76/00	Daytime Running Lamp	W126	H6W	DRL*5603*A	32497	911-353-88	1032
5604	002395-84	46/00	Headlamp	XD1260/55	H4	HL*5604*A	15098	911-351-17	53
		49/00	Front Position Lamp	HL124	T4W	FP*5604*A	15099		

3RD EDITION ADR REFERENCE GUIDE

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
5605	114155-00	46/00	Headlamp	C1255	H1	HL*5605*A	15100	911-351-14	14464R8
5606	114178-00	46/00	Headlamp	C1255	H1	HL*5606*A	15101	911-351-15	7076R8
		49/00	Front Position Lamp	HL124	T4W	FP*5606*A	15102		
5607	009599-80	76/00	Daytime Running Lamp	LED	N/A LED	DRL*5607*B	39474	911-355-15	2372
5608	009496-81	76/00	Daytime Running Lamp	LED	N/A LED	DRL*5608*B	39475	911-355-16	2344
5609	008935-80	76/00	Daytime Running Lamp	N/A	N/A	DRL*5609*B	39476	911-355-17	1722
5609-24V	008935-81			Non-Repl	Non-Repl				
5610	010043-08	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E1 2578 00RL 02A	HKG 460 895-18 & ADR 13/00	E1 2578 00RL 02A
5611	002850-06	46/00	Headlamp	XD1260/55	H4	HL*5611*A	15086	911-351-16	17031R20
		49/00	Front Position Lamp	HL124	T4W	FP*5611*A	15087		
5613	008283-01	46/00	High Beam Headlamp	CA1255	H7	HL*1322*A	26822	911-353-44	041210
5613BLUE	008283-03	46/00	High Beam Headlamp	CA1255	H7	N/A ECE	E1 041210	911-353-44	E1 041210
5614	008283-00	50/00	Front Fog Lamp	CA1255	H7	FF*1122*A	26829	911-353-45	021209
5615	008284-01	46/00	High Beam Headlamp	CA1255	H7	HL*1323*A	26823	911-353-46	041212
5615BLUE	008284-03	46/00	High Beam Headlamp	CA1255	H7	N/A ECE	E1 041212	911-353-46	E1 041212
5616	008284-00	50/00	Front Fog Lamp	CA1255	H7	FF*1123*A	26830	911-353-47	021211
5617	980670-00	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000002	980-703-10	E24 0002 (0670)
5618	980680-80	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000001	980-703-12	E24 0001 (0680)
5618-24V	980680-85							980-703-24	
5619	980880-80	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1009*A	44200	958-780-26	0880
5619-24V	980880-85					DRL*1009-24V*A	44202		
5619V	980880-90	76/00	Daytime Running Lamp	LED	N/A LED	1009V*DRL*C	45962	958-780-98	0880 B
5619V-24V	980880-95					1009V-24V*DRL*C	45965		
5630	980860-84	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-005863	958-780-18	E24 5863
5630-24V	980860-87								
5631	980850-84	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-005862	958-780-19	E24 5862
5631-24V	980850-87								
5632	956330-00	50/00	Front Fog Lamp	YC1255	H3	FF*5632*A	15128	911-351-29	8361
5636	980970-80	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1013*A	44776	958-780-52	0970
5636-24V	980970-85					DRL*1013-24V*A	44783		
5641	005750-04	50/00	Front Fog Lamp	YC1255	H3	FF*5641*A	15138	911-351-30	18213R19
5643	005700-02	50/00	Front Fog Lamp	YC1255	H3	FF*5643*A	15135	911-351-31	18216R19
5645	005860-00	50/00	Front Fog Lamp	YC1255	H3	FF*5645*A	15219	911-351-32	18227
5647	008090-00	50/00	Front Fog Lamp	YC1255	H3	FF*1115*A	28414	911-353-38	02 B E1 877
9.1358.01	002659-07	46/00	High Beam Headlamp	YC1255	H3	HL*1358*A	15112	911-351-50	14529
5649	001951-10	50/00	Front Fog Lamp	YC1255	H3	N/A ECE	03B E1 3221	HKG 460 845-16 & Refer ADR 13/00	E1 3221 R19
5651	001952-10	50/00	Front Fog Lamp	YC1255	H3	N/A ECE	03B E1 3222	HKG 460 845-16 & Refer ADR 13/00	E1 3222 R19
5653	001953-10	50/00	Front Fog Lamp	YC1255	H3	N/A ECE	03B E1 3223	HKG 460 845-16 & Refer ADR 13/00	E1 3223 R19

BY END ITEM NUMBER

Part No.	Spare Part	Description
1010	9.1509.01	Rubber Body and Plug
1014	9.1506.01	Rubber Body
1106	8112	Protective Cover
	9.1306.09	Body assembly
	9.1345.08	Mounting bracket assembly
1109CHROME	8116	Protective Cover
	8133	Clear Cover
	9.1109.01	Amber Insert
1112W	8030	Comet Cavity Mount System
	8143	Clear Cover
1113W	8030	Comet Cavity Mount System
	8144	Clear Cover
	9.1113.01	Insert
1118	8153	Clear Protective Cover
	8153SMOKE	Smokey Protective Cover
	9.1118.01	Fog Lamp Insert
1114W	8030	Comet Cavity Mount System
	8145	Clear Cover
1145	8106	Protective Cover
	9.1345.08	Mounting bracket assembly
	9.1345.09	Body assembly
1158	9.1362.08	Mounting bracket assembly
1162	8118	Protective Cover
	8134	Clear Cover
	9.1162.01	Fog Lamp Insert (white) suits 1162
	9.1362.08	Mounting bracket assembly
	9.1362.09	Body Assembly
	9.1363.08	Globe Holder
1302	9.1367.06	12V XGD Wiring Harness
1304	8113	Protective Cover
	8131	Clear Protective Cover
	9.1308.08	Mounting bracket assembly
	9.1361.08	Globe Holder
1306	8112	Protective Cover
	9.1306.01	Driving lamp insert
	9.1345.08	Mounting bracket assembly
1312W	8030	Comet Cavity Mount System
	8143	Clear Cover
	9.1312.01	Insert
1313W	8144	Clear Cover
	9.1313.01	Insert
1314W	8030	Comet Cavity Mount System
	8145	Clear Cover
	9.1314.01	Insert
1317CHROME	8150	Clear Cover
	9.1317CHROME.01	Insert
1319 & 1319-24V	8153	Clear Protective Cover
	8153SMOKE	Smokey Protective Cover
	9.1319.03	Ballast 12V DC
	9.1319.04	Ballast 24V DC
1345CHROME	8110	Protective Cover
	8152	Clear Protective Cover
	9.1345.01	Insert
1316CHROME	8109	Protective Cover
	8149	Clear Protective Cover
1358 (old version)	9.1358.01	Driving lamp insert
	9.1362.08	Mounting bracket assembly
1367	8125	Protective Cover
	8126	Protective Grille
	8141	Clear Protective Cover
	9.1367.06	12V XGD Wiring Harness
	9.1367.02	Pencil Beam Insert
	9.1367.07	Lens Retaining Rim

Part No.	Spare Part	Description
	9.1365.06	M8 Screw Set
	9.1365.08	Bracket Assembly & Loom
1368 & 1368-24V	8125	Protective Cover
	8126	Protective Grille
	8141	Clear Protective Cover
	9.1368.06	24V XGD Wiring Harness
	9.1368.02	Spread Beam Insert
	9.1365.06	M8 Screw Set
	9.1365.08	Bracket Assembly & Loom
1372	8108	Protective Cover
	8146	Clear Cover
	9.1370.08	Bracket Assembly
	9.1372.01	Insert
1373	8108	Protective Cover
	8146	Clear Cover
	9.1370.08	Bracket Assembly
	9.1367.06	12V XGD Wiring Harness
1377	8125	Protective Cover
	8126	Protective Grille
	8141	Clear Protective Cover
	9.1377.01	Celis Spread Beam Insert
	9.1365.06	M8 Screw Set
	9.1365.07	Lens Retaining Rim
	9.1365.08	Bracket Assembly & Loom
1377CHROME	8125	Protective Cover
	8126	Protective Grille
	8141	Clear Protective Cover
	9.1377.01	Celis Spread Beam Insert
	9.1365.06	M8 Screw Set
	9.1365CHROME.07	Lens Retaining Rim
1379	8155	Protective Cover
	9.1379.01	Celis Spread Beam Insert
	9.1378.08	Bracket Assembly
1379CHROME	8155	Protective Cover
	9.1379.01	Celis Spread Beam Insert
	9.1378CHROME.08	Chrome Bracket Assembly
1407	1.5147.01	Lens
1511 (old version)	4403	Push/pull switch
1512 (old version)	4403	Push/pull switch
1513 (old version)	4403	Push/pull switch
1516-24V	9.1307.09	Body Assembly
	9.1308.08	Mounting Bracket Assembly
	9.1516.01	Insert
1780	9.1717.54	12V Motor
	9.1720.54	24V Motor
	9.1737.91	Drive Belt Set
1781	9.1717.54	12V Motor
	9.1720.54	24V Motor
	9.1737.91	Drive Belt Set
1782	9.1717.54	12V Motor
	9.1720.54	24V Motor
	9.1737.91	Drive Belt Set
1783	9.1717.54	12V Motor
	9.1720.54	24V Motor
	9.1737.91	Drive Belt Set
1784	9.1717.54	12V Motor
	9.1720.54	24V Motor
	9.1737.91	Drive Belt Set
1785	9.1717.54	12V Motor
	9.1720.54	24V Motor
	9.1737.91	Drive Belt Set
1800A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt

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Part No.	Spare Part	Description
	9.1800.92	Globe Clip - Module Assembly
1801A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
	9.1800.92	Globe Clip - Module Assembly
1802A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
	9.1800.92	Globe Clip - Module Assembly
1803A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
	9.1800.92	Globe Clip - Module Assembly
1804A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
	9.1800.92	Globe Clip - Module Assembly
1805A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
	9.1800.92	Globe Clip - Module Assembly
1806A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
	9.1800.92	Globe Clip - Module Assembly
1807A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
	9.1800.92	Globe Clip - Module Assembly
1808A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
	9.1800.92	Globe Clip - Module Assembly
1809A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
	9.1800.92	Globe Clip - Module Assembly
1810A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
	9.1800.92	Globe Clip - Module Assembly
2017	9.2017.01	Lens
2018	2.0957.04	Rubber Backplate
	2.1872.01	Contoured Gasket
2019	9.2019.01	Lens
2024	9.2024.01	Lens
	9.2037.50	Metal Guard
2032	2.9800.06	Red Lens
	2.9800.07	Amber Lens
2041	9.2041.01	Lens
	9.2043.05	Lens Gasket
	9.2041.08	Single Contact Globe Holder
	9.2041.09BULK	Single Housing (pack of 10)
2053SBULK	9.2053.09	Black Housing
	9.2053.10BULK	Red Housing (pack of 4)
	9.2053.11BULK	White Housing (pack of 4)
	9.2053.12BULK	Blue Housing (pack of 4)
	9.2053.13BULK	Green Housing (pack of 4)
	9.2053.14BULK	Yellow Housing (pack of 4)
2080	2.9801.03	Lens
	2.6826.03	Retaining Rlm
2119	2.6708.01	Lens
2120	2.6708.01	Lens
2121	2.6826.05	Lens
	2.6826.03	Retaining Rlm
2124	2.0957.04	Rubber Backplate
	2.1872.01	Contoured Gasket
2128LED-24V	2.6702.03	Backing Plate
	9.2397.40	Gasket
2130 (old version)	2.6702.03	Plastic back plate
2135LED-24V	9.2397.40	Gasket
2136LED-24V	9.2397.40	Gasket
2144	9.2144.01	Lens

Part No.	Spare Part	Description
	9.2043.05	Lens Gasket
	9.2041.08	Single Contact Globe Holder
	9.2041.09BULK	Single Housing (pack of 10)
2157	9.2157.01	Lens
2300	9.2300.01	Lens
2301	9.2300.01	Lens
2302	9.2302.01	Lens
2320	9.2320.01	Lens
	9.2320.08	Double Contact Globe Holder
	9.2043.05	Lens Gasket
	9.2041.09BULK	Single Housing (pack of 10)
2370	2.3163.02	Lens
	2.6826.03	Retaining Rlm
2409	9.2409.01	Red Lens
2412	9.2412.01	Lens and Gasket
2413	9.2412.01	Lens and Gasket
2552	M123	Festoon Globe 12V 3W
	M243	Festoon Globe 24V 3W
2614	2.9801.05	Lens
2867	FL8	Fluorescent Tube
2868	FL8	Fluorescent Tube
5601	9.1367.06	12V XGD Wiring Harness
5602	9.1370.08	Bracket Assembly
5626	8142	Clear Cover
5627/100	8142	Clear Cover
5629	8113	Protective Cover
	8131	Clear Protective Cover
	9.1304.09	Body assembly
	9.1308.08	Mounting bracket assembly
	9.1361.08	Globe Holder
5634W	8030	Comet Cavity Mount System
	8143	Clear Cover
5635W	8030	Comet Cavity Mount System
	8143	Clear Cover
	9.1312.01	Insert
5636W	8030	Comet Cavity Mount System
	8144	Clear Cover
	9.1113.01	Insert
5637W	8030	Comet Cavity Mount System
	8144	Clear Cover
	9.1313.01	Insert
5638W	8030	Comet Cavity Mount System
	8145	Clear Cover
5639W	8030	Comet Cavity Mount System
	8145	Clear Cover
	9.1314.01	Insert
959060507	9.2330.08	Screw Cap & Boss Kit
959060517	9.2330.08	Screw Cap & Boss Kit
Carbon contact type revolving lamps	9.1747.70	Slip ring assembly
Large 'K' type festoon globes	9.2063.21	Festoon globe holder

BY SPARE PART NUMBER

Spare Part	Part No.	Description
1.5147.01	1407	Lens
2.3163.02	2370	Lens
2.6702.03	2128LED-24V	Backing Plate
	2130 (old version)	Plastic back plate
2.6708.01	2119	Lens
	2120	Lens
2.6826.03	2080	Retaining Rlm
	2121	Retaining Rlm
	2370	Retaining Rlm
2.6826.05	2121	Lens
2.9801.03	2080	Lens
2.9801.05	2614	Lens
4403	1511 (old version)	Push/pull switch
	1512 (old version)	Push/pull switch
	1513 (old version)	Push/pull switch
8030	1112W	Comet Cavity Mount System
	1113W	Comet Cavity Mount System
	1114W	Comet Cavity Mount System
	1312W	Comet Cavity Mount System
	1314W	Comet Cavity Mount System
	5634W	Comet Cavity Mount System
	5635W	Comet Cavity Mount System
	5636W	Comet Cavity Mount System
	5637W	Comet Cavity Mount System
	5638W	Comet Cavity Mount System
	5639W	Comet Cavity Mount System
8106	1145	Protective Cover
8108	1372	Protective Cover
	1373	Protective Cover
8109	1316CHROME	Protective Cover
8110	1345CHROME	Protective Cover
8112	1106	Protective Cover
	1306	Protective Cover
8113	1304	Protective Cover
	5629	Protective Cover
8116	1109CHROME	Protective Cover
8118	1162	Protective Cover
8125	1367	Protective Cover
	1368 & 1368-24V	Protective Cover
	1377	Protective Cover
	1377CHROME	Protective Cover
8126	1367	Protective Grille
	1369 & 1368-24V	Protective Grille
	1377	Protective Grille
	1377CHROME	Protective Grille
8131	1304	Clear Protective Cover
	5629	Clear Protective Cover
8133	1109CHROME	Clear Cover
8134	1162	Clear Cover
8141	1367	Clear Protective Cover
	1370 & 1368-24V	Clear Protective Cover
	1377	Clear Protective Cover
	1377CHROME	Clear Protective Cover
8142	5626	Clear Cover
	5627/100	Clear Cover
8143	1112W	Clear Cover
	1312W	Clear Cover
	5634W	Clear Cover
	5635W	Clear Cover
8144	1113W	Clear Cover
	1313W	Clear Cover

Spare Part	Part No.	Description
	5636W	Clear Cover
	5637W	Clear Cover
8145	1114W	Clear Cover
	1314W	Clear Cover
	5638W	Clear Cover
	5639W	Clear Cover
8146	1372	Clear Cover
	1373	Clear Cover
8149	1316CHROME	Clear Protective Cover
8150	1317CHROME	Clear Cover
8152	1345CHROME	Clear Protective Cover
8153	1118	Clear Protective Cover
	1319 & 1319-24V	Clear Protective Cover
8155	1379	Protective Cover
	1379CHROME	Protective Cover
8153SMOKE	1118	Smokey Protective Cover
	1320 & 1319-24V	Smokey Protective Cover
9.1109.01	1109CHROME	Amber Insert
9.1113.01	1113W	Insert
	5636W	Insert
9.1118.01	1118	Fog Lamp Insert
9.1162.01	1162	Fog Lamp Insert (white) suits 1162
9.1306.01	1306	Driving lamp insert
9.1306.09	1106	Body assembly
	1306	Body assembly
9.1307.09	1516-24V	Body Assembly
9.1308.08	1304	Mounting bracket assembly
	1516-24V	Mounting Bracket Assembly
	5629	Mounting bracket assembly
9.1312.01	1312W	Insert
	5635W	Insert
9.1313.01	1313W	Insert
	5637W	Insert
9.1314.01	1314W	Insert
	5639W	Insert
9.1317CHROME.01	1317CHROME	Insert
9.1319.03	1321 & 1319-24V	Ballast 12V DC
9.1319.04	1322 & 1319-24V	Ballast 24V DC
9.1345.01	1345CHROME	Insert
9.1345.08	1106	Mounting bracket assembly
	1145	Mounting bracket assembly
	1306	Mounting bracket assembly
9.1345.09	1145	Body assembly
9.1358.01	1358 (old version)	Driving lamp insert
9.1361.08	1304	Globe Holder
	5629	Globe Holder
9.1362.08	1158	Mounting bracket assembly
	1162	Mounting bracket assembly
	1359 (old version)	Mounting bracket assembly
9.1362.09	1162	Body Assembly
9.1363.08	1162	Globe Holder
9.1365.06	1367	M8 Screw Set
	1374 & 1368-24V	M8 Screw Set
	1377	M8 Screw Set
	1377CHROME	M8 Screw Set
9.1365.07	1377	Lens Retaining Rim
9.1365.08	1367	Bracket Assembly & Loom
	1375 & 1368-24V	Bracket Assembly & Loom
	1377	Bracket Assembly & Loom
9.1365CHROME.07	1377CHROME	Lens Retaining Rim
9.1367.02	1367	Pencil Beam Insert

BY SPARE PART NUMBER

Spare Part	Part No.	Description
9.1367.06	1302	12V XGD Wiring Harness
	1367	12V XGD Wiring Harness
	1373	12V XGD Wiring Harness
	5601	12V XGD Wiring Harness
9.1367.07	1367	Lens Retaining Rim
9.1368.02	1372 & 1368-24V	Spread Beam Insert
9.1368.06	1371 & 1368-24V	24V XGD Wiring Harness
9.1370.08	1372	Bracket Assembly
	1373	Bracket Assembly
	5602	Bracket Assembly
9.1372.01	1372	Insert
9.1377.01	1377	Celis Spread Beam Insert
	1377CHROME	Celis Spread Beam Insert
9.1378.08	1379	Bracket Assembly
9.1378CHROME.08	1379CHROME	Chrome Bracket Assembly
9.1379.01	1379	Celis Spread Beam Insert
	1379CHROME	Celis Spread Beam Insert
9.1506.01	1014	Rubber Body
9.1509.01	1010	Rubber Body and Plug
9.1516.01	1516-24V	Insert
9.1717.54	1780	12V Motor
	1781	12V Motor
	1782	12V Motor
	1783	12V Motor
	1784	12V Motor
	1785	12V Motor
9.1720.54	1780	24V Motor
	1781	24V Motor
	1782	24V Motor
	1783	24V Motor
	1784	24V Motor
	1785	24V Motor
9.1737.91	1780	Drive Belt Set
	1781	Drive Belt Set
	1782	Drive Belt Set
	1783	Drive Belt Set
	1784	Drive Belt Set
	1785	Drive Belt Set
9.1800.53	1800A	Rotator Module Assembly
	1801A	Rotator Module Assembly
	1802A	Rotator Module Assembly
	1803A	Rotator Module Assembly
	1804A	Rotator Module Assembly
	1805A	Rotator Module Assembly
	1806A	Rotator Module Assembly
	1807A	Rotator Module Assembly
	1808A	Rotator Module Assembly
	1809A	Rotator Module Assembly
	1810A	Rotator Module Assembly
9.1800.91	1800A	Drive Belt
	1801A	Drive Belt
	1802A	Drive Belt
	1803A	Drive Belt
	1804A	Drive Belt
	1805A	Drive Belt
	1806A	Drive Belt
	1807A	Drive Belt
	1808A	Drive Belt
	1809A	Drive Belt
	1810A	Drive Belt
9.1800.92	1800A	Globe Clip - Module Assembly
	1801A	Globe Clip - Module Assembly
	1802A	Globe Clip - Module Assembly

Spare Part	Part No.	Description
	1803A	Globe Clip - Module Assembly
	1804A	Globe Clip - Module Assembly
	1805A	Globe Clip - Module Assembly
	1806A	Globe Clip - Module Assembly
	1807A	Globe Clip - Module Assembly
	1808A	Globe Clip - Module Assembly
	1809A	Globe Clip - Module Assembly
	1810A	Globe Clip - Module Assembly
9.2017.01	2017	Lens
9.2019.01	2019	Lens
9.2024.01	2024	Lens
9.2037.50	2039	Metal Guard
9.2041.01	2041	Lens
9.2041.08	2041	Single Contact Globe Holder
	2144	Single Contact Globe Holder
9.2041.09BULK	2041	Single Housing (pack of 10)
	2144	Single Housing (pack of 10)
	2320	Single Housing (pack of 10)
9.2043.05	2041	Lens Gasket
	2144	Lens Gasket
	2320	Lens Gasket
9.2053.09	2053SBULK	Black Housing
9.2053.10BULK	2053SBULK	Red Housing (pack of 4)
9.2053.11BULK	2053SBULK	White Housing (pack of 4)
9.2053.12BULK	2053SBULK	Blue Housing (pack of 4)
9.2053.13BULK	2053SBULK	Green Housing (pack of 4)
9.2053.14BULK	2053SBULK	Yellow Housing (pack of 4)
9.2063.21	Large 'K' type festoon globes	Festoon globe holder
9.2144.01	2144	Lens
9.2157.01	2157	Lens
9.2300.01	2300	Lens
	2301	Lens
9.2302.01	2302	Lens
9.2320.01	2320	Lens
9.2320.08	2320	Double Contact Globe Holder
9.2330.08	959060507	Screw Cap & Boss Kit
	959060517	Screw Cap & Boss Kit
9.2397.40	2128LED-24V	Gasket
	2135LED-24V	Gasket
	2136LED-24V	Gasket
9.2412.01	2412	Lens and Gasket
	2413	Lens and Gasket
FL8	2867	Fluorescent Tube
	2868	Fluorescent Tube
M123	2552	Festoon Globe 12V 3W
M243	2552	Festoon Globe 24V 3W

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1.6502.013	9EL 910 052-021	1300	1F1 905 049-001
1.6502.014	9EL 910 052-031	1307	1FD 905 054-001
1000	2PT 964 296-072	1308	1F4 005 750-301
1001	1L5 996 124-201	1309	1FD 005 700-111
1003	2PT 980 608-502	1310	1FB 005 860-033
1004	2PT 980 670-002	1311	1FE 006 300-121
1005	2PT 980 680-002	1311BLUE	1FE 006 300-261
1005-24V	2PT 980 680-511	1318	1FE 008 773-001
1006	2PT 980 690-502	1322	1FA 008 283-011
1007-24V	2PT 980 690-401	1323	1FA 008 284-011
1008	2PT 980 680-111	1324	1FB 010 951-001
1008-24V	2PT 980 680-611	1325	1F6 010 952-001
1009	2PT 980 880-001	1326	1FD 010 953-001
1009-24V	2PT 980 880-101	1345	1F4 905 057-001
1009V	2PT 980 880-401	1360	1F8 905 091-001
1009V-24V	2PT 980 880-501	1361	1F8 905 092-001
1013	2PT 980 970-001	1362	1F7 004 700-171
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1016	1V6 905 152-001	1364	1F7 004 700-431
1017	9AB 912 420-511	1365	1F8 007 560-121
1024	1VE 905 153-001	1365CHROME	1F8 007 560-141
1025	1VB 950 951-001	1366	1F8 007 560-101
1027	1LG 003 434-181	1366CHROME	1F8 007 560-151
1028	1BL 007 834-001	1367HB	1F8 007 560-611
1029-12V	1BL 008 193-001	1368HB	1F8 007 560-601
1030-12V	1K0 008 191-001	1368HB-24V	1F8 007 560-641
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1031-24V	1K0 008 191-041	1371	1F5 008 273-001
1040	1K3 002 425-191	1376BLUE	1F8 007 560-131
1041	1KB 003 177-061	1376BLUEHB	1F8 007 560-321
1042	1LB 003 177-301	1378	1F3 009 094-021
1043	1LE 003 427-041	1378BLUE	1F3 009 094-171
1044	1LB 003 177-511	1378CHROME	1F3 009 094-031
1053	1K3 114 155-001	1380	1F3 009 094-101
1054	1M3 114 178-001	1380CHROME	1F3 009 094-111
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1055HD	1L3 002 850-211	1382	1F3 009 094-141
1056	1L6 002 395-843	1383	1F3 009 094-301
1058	1L6 002 395-132	1384	1F3 009 094-311
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1078	1G4 905 911-001	1388	1F8 007 560-701
1082	1G1 950 889-001	1388-24V	1F8 007 560-741
1084	1H1 950 372-001	1389LED	1F8 011 002-001
1086	1N1 950 374-001	1390	1F8 009 797-221
1087	1H4 950 375-001	1390CHROME	1F8 009 797-231
1089	1M4 905 905-001	1391	1F8 009 797-241
1091	1H1 950 378-001	1391CHROME	1F8 009 797-251
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1096	1G4 950 884-001	1392CHROME	1F3 010 119-131
1098	1H1 950 384-001	1393	1F3 010 119-011
1107	1FD 905 045-001	1393CHROME	1F3 010 119-111
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1109	1ND 005 700-021	1394LEDHD	1F3 011 815-031
1110	1NB 005 860-001	1395	1FJ 958 040-021
1111	1NE 006 300-071	1396	1FJ 958 040-061
1122	1NA 008 283-001	1403	2ZR 003 030-171
1123	1NA 008 284-001	1405	2ZR 003 014-091
1124	1NB 010 951-101	1406	2ZR 003 236-311
1125	1N6 010 952-101	1408	2ZR 997 506-402
1410	2ZR 005 860-153	1410	2ZR 005 860-153
1413	2ZR 002 694-001	1413	2ZR 002 694-001
1430-H	2ZR 959 070-501	1430-H	2ZR 959 070-501
1430-HBL	2ZR 959 070-502	1430-HBL	2ZR 959 070-502
1430-V	2ZR 959 070-551	1430-V	2ZR 959 070-551
1433	2ZR 959 820-001	1433	2ZR 959 820-001
1433BL	2ZR 959 820-002	1433BL	2ZR 959 820-002
1446-H	2ZR 959 041-321	1446-H	2ZR 959 041-321
1446-V	2ZR 959 041-411	1446-V	2ZR 959 041-411
1447L	2ZR 959 041-371	1447L	2ZR 959 041-371
1447R	2ZR 959 041-361	1447R	2ZR 959 041-361
1459	2ZR 959 930-121	1459	2ZR 959 930-121
1461	2ZR 980 762-011	1461	2ZR 980 762-011
1461BL	2ZR 980 762-012	1461BL	2ZR 980 762-012
1465	2ZR 959 930-001	1465	2ZR 959 930-001
1467	2ZR 959 930-111	1467	2ZR 959 930-111
1468	2ZR 980 889-001	1468	2ZR 980 889-001
1468-24V	2ZR 980 889-201	1468-24V	2ZR 980 889-201
1468-24VBL	2ZR 980 889-222	1468-24VBL	2ZR 980 889-222
1468BL	2ZR 980 889-022	1468BL	2ZR 980 889-022
1468V	2ZR 980 889-101	1468V	2ZR 980 889-101
1468V-24V	2ZR 980 889-301	1468V-24V	2ZR 980 889-301
1490	2ZR 959 010-511	1490	2ZR 959 010-511
1490BL	2ZR 959 010-521	1490BL	2ZR 959 010-521
1500	1GB 006 991-442	1500	1GB 006 991-442
1511	1G4 905 107-001	1511	1G4 905 107-001
1512	1G4 905 108-001	1512	1G4 905 108-001
1513	1G4 905 109-001	1513	1G4 905 109-001
1516	1GD 910 301-001	1516	1GD 910 301-001
1519	1GA 007 118-011	1519	1GA 007 118-011
1520	2XM 905 113-001	1520	2XM 905 113-001
1524	1H1 910 343-001	1524	1H1 910 343-001
1526	2XM 001 974-182	1526	2XM 001 974-182
1533	1GA 007 506-001	1533	1GA 007 506-001
1533LR	1GA 997 506-022	1533LR	1GA 997 506-022
1539	1GM 996 134-172	1539	1GM 996 134-172
1539LED	1GM 996 136-192	1539LED	1GM 996 136-192
1547	1G0 996 176-001	1547	1G0 996 176-001
1547LED	1G0 996 176-721	1547LED	1G0 996 176-721
1547P	1G0 996 176-111	1547P	1G0 996 176-111
1551LED	1GA 996 188-001	1551LED	1GA 996 188-001
1551LEDHD	1GA 996 188-011	1551LEDHD	1GA 996 188-011
1551LEDPDMMMA	1GA 996 188-021	1551LEDPDMMMA	1GA 996 188-021
1553LED	1GA 996 189-002	1553LED	1GA 996 189-002
1553LEDDT	1GA 996 189-012	1553LEDDT	1GA 996 189-012
1555LED	1GA 996 192-001	1555LED	1GA 996 192-001
1555LEDHD	1GA 996 192-021	1555LEDHD	1GA 996 192-021
1555LEDLR	1GA 996 192-011	1555LEDLR	1GA 996 192-011
1557LED	1GA 996 288-011	1557LED	1GA 996 288-011
1557LEDHD	1GA 996 288-031	1557LEDHD	1GA 996 288-031
1557LEDHDLR	1GA 996 288-021	1557LEDHDLR	1GA 996 288-021
1557LEDLR	1GA 996 288-001	1557LEDLR	1GA 996 288-001
1558LED	1GA 96.761-001	1558LED	1GA 96.761-001
1558LEDLR	1GA 996.761-011	1558LEDLR	1GA 996.761-011
1559LED	1GB 996.486-001	1559LED	1GB 996.486-001
1559LEDLR	1GB 996.486-011	1559LEDLR	1GB 996.486-011
1560LED	1G0 995 050-001	1560LED	1G0 995 050-001
1560LEDLR	1G0 995 050-021	1560LEDLR	1G0 995 050-021
1561LED-12V	1GA 996 388-001	1561LED-12V	1GA 996 388-001
1561LED-24V	1GA 996 388-011	1561LED-24V	1GA 996 388-011
1561LEDLR-12V	1GA 996 388-021	1561LEDLR-12V	1GA 996 388-021
1561LEDLR-24V	1GA 996 388-031	1561LEDLR-24V	1GA 996 388-031
1562LED	1GA 995 506-001	1562LED	1GA 995 506-001
1562LEDLR	1GA 995 506-031	1562LEDLR	1GA 995 506-031
1562LEDPB	1GA 995 506-011	1562LEDPB	1GA 995 506-011
1562LEDWPB	1GA 995 506-101	1562LEDWPB	1GA 995 506-101
1562LEDWB	1GA 995 506-051	1562LEDWB	1GA 995 506-051
1563LED	1GA 996 283-001	1563LED	1GA 996 283-001
1563LEDLR	1GA 996 283-011	1563LEDLR	1GA 996 283-011
1564LED	1G0 996 263-031	1564LED	1G0 996 263-031
1564LEDLR	1G0 996 263-051	1564LEDLR	1G0 996 263-051
1567LED	1G0 996 476-001	1567LED	1G0 996 476-001
1567LEDEW	1G0 996 476-031	1567LEDEW	1G0 996 476-031
1567LEDLR	1G0 996 476-011	1567LEDLR	1G0 996 476-011
1600	2RL 905 123-001	1600	2RL 905 123-001
1601	2RL 905 124-001	1601	2RL 905 124-001
1602	2RL 905 124-011	1602	2RL 905 124-011
1603	2RL 905 125-001	1603	2RL 905 125-001
1604	2RL 905 125-011	1604	2RL 905 125-011
1605	2RL 008 181-102	1605	2RL 008 181-102
1605-24V	2RL 008 181-112	1605-24V	2RL 008 181-112
1606	2RL 008 182-102	1606	2RL 008 182-102
1607	2RL 008 183-101	1607	2RL 008 183-101
1607-24V	2RL 008 183-111	1607-24V	2RL 008 183-111
1608	2RL 011 484-001	1608	2RL 011 484-001
1609	2RL 011 484-011	1609	2RL 011 484-011
1610	2RL 011 484-021	1610	2RL 011 484-021
1611	2RL 010 979-001	1611	2RL 010 979-001
1612	2RL 010 979-011	1612	2RL 010 979-011
1613	2RL 010 979-021	1613	2RL 010 979-021
1637	2RL 905 127-001	1637	2RL 905 127-001
1638	2RL 905 127-011	1638	2RL 905 127-011
1639	2RL 905 127-021	1639	2RL 905 127-021
1643	2RL 905 126-001	1643	2RL 905 126-001
1644	2RL 905 126-011	1644	2RL 905 126-011
1645	2RL 905 126-021	1645	2RL 905 126-021
1646	2RL 905 127-031	1646	2RL 905 127-031
1647	2RL 905 127-041	1647	2RL 905 127-041
1648	2RL 905 128-001	1648	2RL 905 128-001
1653	8HG 905 129-001	1653	8HG 905 129-001
1655	2RL 905 130-001	1655	2RL 905 130-001
1656	2RL 905 130-011	1656	2RL 905 130-011
1657	2RL 905 130-021	1657	2RL 905 130-021
1659	2RL 905 131-001	1659	2RL 905 131-001
1661	2RL 905 132-001	1661	2RL 905 132-001
1663	2RL 905 133-001	1663	2RL 905 133-001
1668	2RL 905 134-001	1668	2RL 905 134-001
1670	2RL 905 134-021	1670	2RL 905 134-021
1688	2RL 900 917-031	1688	2RL 900 917-031
1689	2RL 900 917-041	1689	2RL 900 917-041
1691	2RL 900 917-051	1691	2RL 900 917-051
1696	2RL 900 917-011	1696	2RL 900 917-011
1700	2RL 006 295-001	1700	2RL 006 295-001
1701	2RL 006 295-321	1701	2RL 006 295-321
1702	2RL 006 295-301	1702	2RL 006 295-301
1703	2RL 006 295-011	1703	2RL 006 295-011
1704	2RL 006 295-331	1704	2RL 006 295-331
1705	2RL 006 295-351	1705	2RL 006 295-351
1708	2RL 004 957-171	1708	2RL 004 957-171
1709	2RL 004 957-161	1709	2RL 004 957-161
1710	2RL 004 957-301	1710	2RL 004 957-301
1711	2RL 004 957-001	1711	2RL 004 957-001

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1712	2RL 004 957-151	2.4602.021	9EL 954 352-031	2056	2PF 959 590-341	2108-GMD	2BE 980 691-111
1713	2RL 004 957-111	2.4602.07	9FH 955 077-001	2056BULK	2PF 959 590-357	2108-GMD24V	2BE 980 690-111
1717	2RL 905 137-001	2.6111.01	9EL 956 387-011	2057	2XS 959 650-011	2109	2BA 980 888-301
1718	2RL 905 137-011	2.6702.03	9GD 910 012-061	2057BULK	2XS 959 650-027	2109-24V	2BA 980 888-401
1719	2RL 905 137-021	2.6826.03	9AB 905 225-001	2058	2PS 980 660-001	2109-24VBL	2BA 980 888-422
1719MAG	2RL 905 138-001	2.6830.01	9EL 956 388-021	2058BULK	2XS 980 660-018	2109BL	2BA 980 888-322
1720	2RL 905 139-001	2.6846.01	9EL 074 484-031	2058P	2PS 980 660-021	2109V	2BA 980 888-501
1721	2RL 905 139-011	2.6856.01	9EL 956 388-001	2058PBULK	2XS 980 660-038	2109V-24V	2BA 980 888-601
1722	2RL 905 139-021	2.9800.01	9EL 905 230-001	2059	2PF 980 855-011	2109V-24VBL	2BA 980 888-622
1722MAG	2RL 905 140-001	2.9800.02	9EL 905 231-001	2059BULK	2PF 980 855-037	2109VBL	2BA 980 888-522
1724	2RL 905 143-001	2.9800.08	9EL 910 325-021	20590EBULK	2PF 980 855-017	2117	2BM 905 136-001
1726	2RL 378 294-001	2.9800.09	9EL 910 325-001	2059S	2PF 980 855-021	2126	2BA 905 115-001
1726-24V	2RL 378 295-001	2.9800.091	9EL 910 325-041	2059SBULK	2PF 980 855-047	2127	2BA 900 763-291
1727	2RL 378 297-002	2.9801.01	9EL 910 325-011	2060	2PF 980 855-201	2128	2BA 900 763-301
1727-24V	2RL 378 298-002	2.9801.05	9EL 910 021-012	2060BULK	2PF 980 855-227	2128LED	2BA 959 932-301
1728	2RL 008 061-142	2.9803.09	2RL 910 326-001	2060S	2PF 980 855-211	2128LEDCLR	2BA 959 932-351
1728-24V	2RL 378 299-002	2000	2PF 901 227-241	2060SBULK	2PF 980 855-237	2129	2BA 900 763-311
1729	2RL 008 062-132	2006	2PF 910 315-041	2061	2PF 980 660-201	2130	2BA 959 011-011
1730	2RL 006 846-001	2009	2PF 900 711-261	2061BULK	2PF 980 660-218	2130BL	2BA 959 011-031
1731	2RL 006 846-011	2023	2PF 900 711-301	2061P	2PF 980 660-221	2130BULK	2BA 959 011-003
1732	2RL 007 337-001	2026	2BP 959 660-301	2061PBULK	2PF 980 660-238	2131-CS	2BE 959 932-152
1732-24V	2RL 007 337-011	2026BULK	2PS 959 660-501	2062	2PF 980 660-301	2132-CS	2BE 959 932-162
1733	2RL 007 337-021	2027	2BP 980 660-101	2062BULK	2PF 980 660-318	2133	2BA 959 822-001
1735	2RL 905 145-001	2027BULK	2BP 980 660-118	2062P	2PF 980 660-321	2133-24V	2BA 959 021-001
1786	2RL 007 550-001	2027P	2BP 980 660-121	2062PBULK	2PF 980 660-338	2133BL	2BA 959 822-002
1787	2RL 007 550-011	2027PBULK	2BP 980 660-138	2063	2BE 900 741-251	2133-CS	2BA 959 822-641
1790	2RL 007 553-002	2029	2PS 900 139-012	2064	2PF 003 014-071	2135	2BA 900 739-101
1792	2RL 007 552-001	2030	2PF 900 139-022	2065	2PF 006 679-051	2135LED	2BA 959 932-311
1793	2RL 007 552-011	2031	2BM 959 700-011	2066	2PF 006 679-001	2135LEDCLR	2BA 959 932-361
1794	2RL 008 065-002	2031BL	2BM 959 700-012	2067	2PF 006 679-011	2135LEDCLR-CS	2BA 959 932-072
1795	2RL 008 065-131	2033	2PS 959 700-201	2070	2BE 901 227-161	2135LED-CS	2BA 959 932-032
1796	2RL 008 065-141	2033BL	2PS 959 700-212	2071	2PF 980 990-401	2135PC	2BA 900 739-121
1811A	2RL 905 146-001	2037	2PS 905 263-001	2071BULK	2PF 980 990-407	2136	2BA 900 741-211
1811MAGA	2RL 905 146-011	2038	2PS 905 264-001	2072	2BE 901 227-541	2136LED	2BA 959 932-321
1GA910429001	1GA 910 429-001	2041LED-H	2ZR 959 041-331	2073	2PS 980 990-001	2136LEDCLR	2BA 959 932-371
1GA958060011	1GA 958 060-011	2041LED-V	2ZR 959 041-431	2073BULK	2PS 980 990-007	2136LEDCLR-CS	2BA 959 932-082
1GA958060111	1GA 958 060-111	2042	2PF 905 055-011	2074	2PF 980 990-201	2136LED-CS	2BA 959 932-042
1GA958060201	1GA 958 060-201	2043	2ZR 910 663-091	2074BULK	2PF 980 990-207	2138	2BR 959 031-011
1GA958060401	1GA 958 060-401	2044	2PF 905 055-021	2076	2BP 980 990-101	2138BL	2BR 959 031-012
1GA958060501	1GA 958 060-501	2045	2PF 905 055-031	2076BULK	2BP 980 990-107	2140	2BA 905 272-001
1GA958060601	1GA 958 060-601	2046	2ZR 958 607-021	2077	2PF 901 227-061	2141	2BA 905 997-001
1GE910434001	1FE 910 434-001	2046PC	2ZR 958 607-031	2078	2PF 901 227-231	2142	2BA 905 273-001
1GJ910435001	1GJ 910 435-001	2047	2PS 963 639-002	2082	2BE 910 315-001	2143	2BA 910 663-081
1GJ910436001	1GJ 910 436-001	2048	2PS 963 639-012	2083	2PS 980 868-041	2144LED-H	2BA 959 041-111
1GJ910437001	1GJ 910 437-001	2051	2PF 959 570-301	2083BULK	2PS 980 868-057	2145	2BA 958 607-001
1GJ910440001	1GJ 910 440-001	2051BULK	2PF 959 570-304	20830EBULK	2PS 980 868-047	2145PC	2BA 958 564-271
1GJ910442001	1GJ 910 442-001	2051GMD	2PF 959 570-101	2083S	2PS 980 868-061	2146-H24	2BA 959 041-501
1GJ910470001	1GJ 910 470-001	2051GMDBULK	2PF 959 570-104	2083SBULK	2PS 980 868-077	2146-H24BL	2BA 959 041-502
1GJ910471001	1GJ 910 471-001	2053	2PS 959 660-581	2100	2BA 901 227-042	2146-HCS	2BA 959 041-511
1GJ910472001	1GJ 910 472-001	2053BULK	2PS 959 660-502	2101	2BA 002 939-171	2146-V24	2BA 959 041-701
1GJ910473001	1GJ 910 473-001	2053CHROME	2PS 959 660-691	2103-12V	2BA 008 260-012	2146-VCS	2BA 959 041-711
1GJ958040501	1GJ 958 040-501	2053GMD	2PS 959 660-481	2103-24V	2BA 008 260-002	2147	2BA 003 014-011
1GJ958040551	1GJ 958 040-551	2053GMDBULK	2PS 959 660-477	2105	2BA 959 932-201	2148	2BA 003 014-111
1GJ958040601	1GJ 958 040-601	2053GMDOEBULK	2PS 959 660-487	2105CLR	2BA 959 932-211	2149	2BA 003 236-321
2.1879.03	9EL 954 352-021	20530EBULK	2PS 959 660-587	2105CLR-CS	2BA 959 932-051	2150	2BA 005 603-001
2.2459.01	9EL 956 388-011	2054	2PF 959 570-491	2105-CS	2BA 959 932-052	2151	2BA 959 070-011
2.2703.01	9EL 956 387-021	2054BULK	2PF 959 570-557	2106-CS	2BA 959 932-012	2151BL	2BA 959 070-012
2.2705.01	9EL 956 387-001	2054GMD	2PF 959 570-501	2107	2BA 959 011-112	2151BULK	2BA 959 070-027
2.2884.01	9EL 910 616-001	2054GMDBULK	2PF 959 570-517	2107BULK	2BA 959 011-113	2151-H	2BA 959 070-351
2.2885.01	9EL 956 387-031	2055	2PF 959 590-491	2107CLR	2BA 959 011-102	2151-HBL	2BA 959 070-352
2.4602.02	9EL 954 352-012	2055BULK	2PF 959 590-547	2107CLR BULK	2BA 959 011-115	2151-HCS	2BA 980 607-001

PART NO. / SAP NO. CROSS REFERENCE

PART NO.	SAP NO.						
2151-V	2BA 959 070-251	2324	2SA 006 679-021	2394-12V	2VA 980 720-201	2560BULK	2KA 980 869-027
2151-VCS	2BA 980 607-501	2325	2SA 003 014-051	2394-6M	2VA 980 720-021	2604	2JB 343 227-002
2152BULK	2BA 959 070-201	2330	2SB 959 060-001	2394-6MBULK	2VA 980 720-027	2605	2JA 003 231-013
2153	2BM 006 692-012	2330BL	2SB 959 060-002	2394-9MBULK	2SD 980 720-037	2608	2JA 001 330-005
2154	2BM 006 692-022	2330BULK	2TA 959 060-011	2394BULK	2VA 980 720-008	2610	2JA 900 741-241
2155	2BM 008 355-002	2330-H	2SB 959 060-351	2395	2VB 980 720-502	2611	2JA 900 741-291
2155CLR	2BM 008 355-012	2330-HBL	2SB 959 060-352	2395-12V	2VB 980 720-601	2612	2JA 905 253-001
2156	2BA 959 075-501	2330-V	2SB 959 060-251	2395-6M	2VB 980 720-511	2617	2JA 950 959-001
2156-24V	2BA 959 075-001	2331BULK	2SB 959 060-211	2395-6MBULK	2SE 980 720-513	2621	2JA 007 750-012
2158	2BE 004 119-021	2332-H24	2SB 959 040-501	2395-9MBULK	2SE 980 720-527	2622	2XT 008 929-002
2159	2BA 959 932-272	2332-H24BL	2SB 959 040-502	2395BULK	2SE 980 720-508	2633	2AB 004 532-172
2159-CS	2BA 959 932-542	2332-V24	2SB 959 040-701	2395-TP	2VB 980 720-811	2636	2AB 004 532-162
2161	2BR 980 761-011	2334	2SB 959 074-501	2395-TP12V	2VB 980 720-851	2637	2AB 004 532-105
2161BL	2BR 980 761-012	2334-24V	2SB 959 074-001	2395-TP9M12V	2VB 980 720-861	2638	2JA 343 720-023
2161-CS	2BR 980 761-021	2350	2SB 901 227-501	2396	2VB 905 002-021	2639	2JA 343 720-211
2165	2BA 959 932-501	2351	2ST 901 227-401	2397	2VA 910 304-001	2641-12V	2JA 959 073-011
2165-CS	2BA 959 932-512	2353	2ST 901 227-761	2397BL	2VA 910 304-002	2641-24V	2JA 959 073-211
2167	2BA 959 932-711	2359	2SB 959 931-121	2397BULK	2VA 910 304-003	2641HB-12V	2JA 959 076-501
2167-CS	2BA 959 932-532	2361	2TA 980 760-011	2398	2VA 905 070-001	2641HB-24V	2JA 959 076-631
2168	2BA 980 888-001	2361BL	2TA 980 760-012	2399	2SD 959 010-202	2642	2JA 007 373-003
2168-24V	2BA 980 888-201	2365	2SB 959 931-001	2399BL	2SD 959 010-231	2642-24V	2JA 007 373-013
2168-24VBL	2BA 980 888-222	2366	2SB 959 821-001	2399BULK	2SD 959 010-217	2643	2JA 007 373-063
2168BL	2BA 980 888-022	2366-24V	2SB 959 020-001	2399-TP	2VB 959 010-811	2643-24V	2JA 007 373-073
2303	2DA 901 227-191	2366BL	2SB 959 821-002	2400	2VB 905 276-001	2644	2JA 007 372-003
2304	2SB 900 947-011	2367	2SB 959 931-111	2401	2VD 905 277-001	2644-24V	2JA 007 372-013
2305	2TM 963 639-301	2368	2VB 900 807-011	2414	2VP 006 040-112	2645	2JA 998 565-031
2306	2TM 963 639-311	2377	2VA 980 710-011	2415	2SK 905 289-001	2646	2JA 343 680-172
2307	2BA 959 560-431	2377BL	2VA 980 710-012	2416LED	2VA 959 030-321	2647	2JA 343 700-272
2307BULK	2TM 959 560-517	2377BULK	2VA 980 710-017	2419	2SD 003 184-032	2651	2JA 980 681-012
2307GMD	2TM 959 560-101	2377-TP	2VA 980 710-811	2420	2SE 003 184-102	2651-24V	2JA 980 681-512
2307GMDBULK	2TM 959 560-117	2378	2SD 980 613-001	2421	2SE 910 349-001	2651WW	2JA 980 681-112
2308	2BA 959 610-441	2378BL	2SD 980 613-002	2422	2VA 958 562-001	2651WW-24V	2JA 980 681-612
2308BULK	2BA 959 610-457	2378BULK	2SD 980 613-007	2422LED	2VA 959 030-421	2652	2JA 980 881-021
2309	2BA 959 700-301	2378-CS	2SD 980 613-201	2423	2VA 958 616-021	2652-24V	2JA 980 881-131
2310	2XA 980 855-301	2378DT	2SD 980 602-001	2424	2VA 958 616-031	2652WW	2JA 980 881-221
2310BULK	2XA 980 855-327	2378DTCS	2SD 980 602-201	2424LED-H	2SK 959 040-531	2652WW-24V	2JA 980 881-321
2310EBULK	2XA 980 855-307	2378-TP	2VB 980 613-801	2424LED-V	2SK 959 040-541	2700	2AA 001 200-025
2310S	2XA 980 855-311	2379	2SD 959 050-001	2426-H	2SD 959 040-801	2702	2AA 001 200-005
2310SBULK	2XA 980 855-337	2379BL	2SD 959 050-092	2426-V	2SD 959 040-901	2704	2AA 001 200-033
2311	2XS 980 660-401	2379-CS	2SD 959 050-421	2427-H	2SD 959 040-811	2706	2AA 001 200-013
2311BL	2XS 980 660-418	2379-GMD	2SD 959 050-412	2427-V	2SK 959 040-911	2708	2AA 905 300-001
2311P	2XS 980 660-421	2379OEBULK	2SD 959 050-097	2428-H	2SK 959 041-811	2709	2AA 905 300-011
2311PBULK	2XS 980 660-438	2379-TP	2VB 959 050-841	2428-V	2SK 959 041-911	2710	2AA 905 300-021
2312	2XA 980 990-601	2380	2SK 980 603-501	2429	2VA 980 760-801	2711	2AA 905 300-031
2312BULK	2XA 980 990-607	2380BL	2SK 980 603-502	2429-CS	2VA 980 761-801	2712	2AA 905 301-001
2314	2SB 900 739-111	2380BULK	2SK 980 603-507	2430	2VA 980 760-811	2713	2AA 905 301-011
2314PC	2SB 900 739-791	2380DT	2SK 980 615-011	2430-CS	2VA 980 761-811	2714	2AA 905 301-021
2315	2SB 900 741-221	2380DTGMD	2SK 980 615-051	2431	2VP 980 760-821	2715	2AA 905 301-031
2316	2TA 900 741-231	2380GMD	2SK 980 603-551	2431-CS	2VP 980 761-821	2716	2AA 910 233-041
2317	2TA 959 030-101	2383-24VCS	2SK 980 613-511	2550	2KA 001 386-285	2716-24V	2AA 910 233-101
2317BL	2TA 959 030-102	2383-DT24VCS	2SK 980 602-511	2553	2KA 951 068-042	2717	2AA 910 233-031
2318	2SB 980 887-001	2384	2ST 003 014-143	2555	2KA 001 389-101	2717-24V	2AA 910 233-091
2318-24V	2SB 980 887-201	2386	2ST 900 739-037	2557	2KA 900 967-031	2718	2AA 910 233-011
2318-24VBL	2SB 980 887-202	2388	2ST 905 998-001	2558	2KA 004 525-001	2718-24V	2AA 910 233-061
2318BL	2SB 980 887-002	2390	2SB 959 010-031	2559	2KA 959 640-021	2719	2AA 910 233-051
2319	2TA 910 664-021	2390BL	2SB 959 010-041	2559-1	2KA 959 640-301	2719-24V	2AA 910 233-111
2320LED-H	2SB 959 040-561	2390BULK	2SB 959 010-037	2559-1BULK	2KA 959 640-327	2720	2AA 910 233-021
2321	2TA 958 606-001	2391	2VP 980 980-001	2559-1DT	2KA 959 640-381	2720-24V	2AA 910 233-071
2321PC	2TA 958 606-011	2392L	2VD 980 980-011	2559BULK	2KA 959 640-057	2741	8JB 950 987-001
2322	2SA 003 236-341	2392R	2VD 980 980-021	2559OEBULK	2KA 959 640-067	2742	8JA 950 988-001
2323	2DA 003 236-331	2394	2VA 980 720-002	2560	2KA 980 869-001	2744	8JB 950 989-001

PART NO.	SAP NO.						
2745	8JA 950 990-001	2JA959700121	2JA 959 700-121	3028	4LZ 961 553-233	4420	6EG 905 351-001
2746	9NM 004 208-002	2JA959700711	2JA 959 700-711	3032	4DW 003 944-052	4421	6EG 905 351-011
2747	9NM 004 209-002	2JA959950011	2JA 959 950-011	3033	4DN 008 768-022	4422	6EG 905 351-021
2756	8JD 905 307-001	2JA959950021	2JA 959 950-021	3035	4DM 003 360-021	4423	6EG 905 351-031
2757	8KV 002 143-032	2JA959950551	2JA 959 950-551	3036	4DN 009 492-102	4424	6EG 905 351-041
2758	8KV 002 145-002	2JA959950561	2JA 959 950-561	3037	4DM 009 492-002	4426	6EH 905 352-001
2759	8KV 004 259-031	2JA980704001	2JA 980 704-001	3038	4DW 009 492-012	4427	6EH 905 352-011
2760	6JB 905 308-001	2JA980704021	2JA 980 704-021	3039	4DW 009 492-112	4428	6EH 905 352-021
2762	6EG 905 310-001	2JA980704501	2JA 980 704-501	3040	4JZ 177 846-007	4429	6EH 905 352-031
2763	6JF 905 311-001	2JA980704521	2JA 980 704-521	3053	4RA 905 330-001	4430	6EH 905 352-041
2765	6EK 005 519-002	2JA980820002	2JA 980 820-002	3054	4RA 905 330-241	4431	8HG 905 353-001
2766	6JB 905 313-001	2JA980820012	2JA 980 820-012	3055	4RA 905 330-011	4432	8HG 905 353-011
2767	6EB 950 870-001	2JA980820102	2JA 980 820-102	3056	4RA 905 330-251	4433	6EG 905 354-001
2769	6EK 905 250-001	2JA980820112	2JA 980 820-112	3057	4RD 905 330-021	4434	6EG 905 354-011
2782	8JA 006 801-802	2JA980828002	2JA 980 828-002	3058	4RD 905 330-261	4435	6EG 905 354-021
2783	8JA 006 803-802	2JA980828012	2JA 980 828-012	3059	4RA 905 330-031	4436	6EG 905 354-031
2784	8JA 006 805-802	2JA980828102	2JA 980 828-102	3060	4RA 905 330-271	4437	8HG 950 709-001
2785	8JA 006 807-802	2JA980828112	2JA 980 828-112	3061	4RA 905 330-041	4439	6EH 905 356-001
2786	8XT 006 798-002	2JA980881402	2JA 980 881-402	3062	4RA 905 330-281	4440	6EH 905 356-011
2830	1GB 998 541-001	2JA980881502	2JA 980 881-502	3076	4RA 003 530-043	4441	6EH 905 356-021
2833	1GA 998 517-001	2JA980881602	2JA 980 881-602	3077	4RA 003 530-052	4442	6EH 905 356-031
2834	1GA 998 517-031	2JA980881702	2JA 980 881-702	3078	4RA 965 400-002	4443	6EH 905 356-041
2835	1GM 996 134-201	2JA980940001	2JA 980 940-001	3079	4RA 965 400-032	4444	6EH 905 357-001
2835-24V	1GM 996 134-211	2JA980940011	2JA 980 940-011	3080	4RD 933 332-042	4445	6EH 905 357-011
2859	1GA 007 118-002	2JA980940101	2JA 980 940-101	3081	4RD 003 520-095	4446	6EH 905 357-021
2860	1GA 998 518-001	2JA980940111	2JA 980 940-111	3082	4RA 993 791-091	4447	6FH 905 357-031
2860-BLACK	1GA 996 082-001	2JA980940201	2JA 980 940-201	3084	4RA 003 437-088	4448	6EH 905 357-041
2862	1H3 998 502-001	2JA980940211	2JA 980 940-211	3085	4RA 003 437-098	4450	6EG 001 567-012
2863	1H3 998 502-021	2JA980940301	2JA 980 940-301	3086-12V	5HE 996 152-131	4451	6EH 905 359-001
2900	8RW 905 323-001	2JA980940311	2JA 980 940-311	3086-24V	5HE 996 152-141	4452	6EH 905 360-001
2902	8RA 002 016-113	2LT980747001	2LT 980 747-001	3087-12V	5HE 996 152-042	4453	6EH 905 361-001
2910	8RA 002 016-161	2LT980747011	2LT 980 747-011	3087-24V	5HE 996 152-171	4454	6EH 905 361-011
2915	8RA 002 014-033	2LT980747101	2LT 980 747-101	3090	5DF 980 818-011	4456	6EH 905 361-021
2915/1000	8RA 002 014-036	2LT980747111	2LT 980 747-111	3090BULK	5DF 980 818-017	4460	6EH 905 361-031
2916	8RA 002 014-131	2XM910412001	2XM 910 412-001	3091	5DF 980 818-001	4461	6EH 905 362-001
2916/1000	8RA 002 014-054	2XM910413001	2XM 910 413-001	3091BULK	5DF 980 818-007	4470	6EH 905 363-001
2917	8RA 002 014-861	2XM910415001	2XM 910 415-001	3099	4RD 980 830-001	4471	6EH 905 363-011
2917/1000	8RA 002 014-043	2XM910426001	2XM 910 426-001	4005	6JB 003 959-002	4472	6EH 905 363-021
2919	8RA 004 412-002	2XM910426011	2XM 910 426-011	4008	6JB 950 505-001	4473	6EH 905 363-031
2919/200	8RA 004 412-006	2XM910528011	2XM 910 528-011	4008HD	6JK 905 339-001	4474	6EH 905 363-041
2919BULK	8RA 004 412-008	2XM910529001	2XM 910 529-001	4009	6JK 950 838-001	4475	6FH 905 363-051
292	8GP 002 095-081	2XM910529011	2XM 910 529-011	4010	6JK 905 340-001	4476	6FH 905 363-061
2920	8RA 004 412-022	2XM910529021	2XM 910 529-021	4020	6EB 905 341-001	4477	6FH 905 363-071
2920/200	8RA 004 412-021	2XM910529031	2XM 910 529-031	4021	6EB 905 341-011	4478	6FH 905 363-081
2921	8RA 004 412-012	2XM910530101	2XM 910 530-101	4022	6EB 905 341-021	4479	6FH 905 363-091
2921/200	8RA 004 412-011	2XM910530201	2XM 910 530-201	4023	6EB 904 341-031	4480	6FH 905 363-101
2922	8RA 003 326-043	2XM910530301	2XM 910 530-301	4024	9GH 905 342-001	4481	6FH 905 363-111
2922-2/200	8RA 003 326-017	2XM910601001	2XM 910 601-001	4055	6RD 905 343-001	4482	6FH 905 364-001
2922BULK	8RA 003 326-044	2XM910602001	2XM 910 602-001	4056	6FG 905 343-011	4483	6FH 905 364-011
2923	8RA 003 326-033	3008	4LZ 905 728-061	4100	6EJ 905 344-001	4484	6GH 905 364-021
2923-2BULK	8RA 003 326-001	3014	4AZ 910 353-001	4150	6FG 002 312-003	4501	6JF 001 571-002
2924	8RA 003 326-053	3014HD	4AZ 003 787-002	4151	6FH 004 406-053	4502	6JF 001 572-002
2924-2BULK	8RA 003 326-021	3015	4AZ 957 224-001	4152	6FG 905 345-001	4503	6JF 001 571-003
2925	8RB 004 713-002	3015HD	4AZ 003 787-023	4202	6FG 905 346-001	4506	6JB 905 371-001
2926	8RB 342 007-101	3016	4DB 003 750-722	4206	6FG 905 347-001	4550	6ZF 003 549-003
2927	8RB 950 766-001	3016LED1	4DB 003 750-741	4300	6BG 001 545-003	4551	6ZF 003 549-022
2929	8RW 920 669-463	3016LED2	4DB 003 750-751	4302	6FG 905 348-001	4553	6ZF 905 373-001
2934-H	8RA 980 565-102	3017	4DM 003 460-022	4400	6ED 001 563-005	4560	6DD 905 374-001
2934-V	8RA 980 565-502	3018	4DM 003 474-002	4403	6ED 001 563-012	4562	6DF 007 365-001
2JA959037501	2JA 959 037-501	3026	4LZ 961 553-124	4411	6ED 004 778-023	4565	6DL 905 375-001
2JA959037511	2JA 959 037-511	3027	4LZ 961 553-133	4412	6ED 004 778-013	4566	6DL 905 375-011

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PART NO.	SAP NO.	PART NO.	SAP NO.	PART NO.	SAP NO.	PART NO.	SAP NO.
4567	6DL 905 375-021	4952	8JA 007 589-003	5631	2PT 980 850-841	7037	8PD 006 542-001
4568	6DL 905 375-031	4960-P	8JA 959 736-811	5631-24V	2PT 980 850-871	7039	8PD 006 535-001
4569	6EZ 905 376-001	4963-P	8JA 959 736-801	5631BL	2PT 980 850-842	7040	8PD 006 536-001
4570	6EZ 905 376-021	4972	8JA 001 912-002	5632	1ND 905 378-001	7050	8ET 950 833-001
4571	6ZL 905 376-031	4973	8JA 003 526-005	5633/100	1FD 910 338-001	8003	8HG 002 156-001
4574	6ZL 905 376-041	4973BULK	8JA 003 526-006	5636	2PT 980 970-801	8004	8HG 116 741-801
4640	9SL 998 540-002	5223	8KB 905 401-001	5636-24V	2PT 980 970-851	8007	8HG 002 365-001
4641	9SL 980 832-001	5224	8KB 905 404-001	5636BL	2PT 980 970-802	8007FM	8HG 006 294-011
4642	6EK 905 424-001	5225	6HD 002 535-032	5641	1N4 005 750-042	8007RA	8HG 006 294-111
4643	6EK 905 424-011	5226	6HD 002 535-112	5642/100	1F4 005 750-111	8007SCR	8HG 006 294-091
4644	6EK 905 424-021	5227	6HF 001 579-051	5643	1ND 005 700-022	8022	8HG 905 430-001
4645	9SL 910 337-001	5237	2DA 959 190-001	5644/100	1FD 005 700-112	8027	8HG 950 835-001
4646	6EK 905 463-001	5238	2DA 959 190-002	5645	1NB 005 860-002	8028	8HG 950 836-001
4647	6EK 905 226-001	5239	2DA 959 192-001	5646/100	1FB 005 860-032	8029	8HG 950 837-001
4650	6EK 002 843-057	5242	2DA 006 631-002	5647	1NL 008 090-821	8106	8XS 127 740-001
4652	9SL 706 729-012	5243	2DA 959 071-591	5648/100	1FB 010 951-601	8108	8XS 154 186-001
4653	6EK 001 559-002	5245	2DA 980 887-301	5649	1NB 010 951-701	8112	8XS 119 454-001
4654	9SL 042 991-002	5245-24V	2DA 980 887-401	5650/100	1F6 010 952-601	8114	8XS 124 016-001
4655	6EK 905 397-001	5603	2PT 008 362-802	5651	1N6 010 952-701	8116	8XS 123 764-001
4657	6EK 905 249-001	5603L	2PT 008 362-811	5652/100	1FD 010 953-601	8118	8XS 130 330-001
4720	6EK 998 540-062	5603R	2PT 008 362-821	5653	1ND 010 953-701	8121	8XS 135 236-001
4721	6EB 998 540-202	5604	1L6 002 395-844	6001	3AL 002 952-011	8122	8XS 135 037-002
4722	9SL 980 833-001	5604/100	1L6 002 395-845	6002	3BA 002 768-381	8123	8XS 137 000-001
4723	9SL 980 834-001	5605	1K3 114 155-002	6004	3FH 007 424-804	8124	8XS 138 127-001
4724	6EN 980 835-001	5606	1M3 114 178-002	6005	3FH 007 728-835	8125	8XS 147 945-001
4901	8JB 001 941-004	5607	2PT 009 599-802	6007	3PD 003 001-623	8126	9HG 148 995-001
4901BULK	8JB 001 941-005	5607LH	2PT 009 599-012	6008	3SL 009 148-001	8130	9HD 905 434-001
4902	8JA 905 386-001	5607RH	2PT 009 599-022	6009	3SL 009 148-011	8132	9HD 905 436-001
4907	8JB 003 833-002	5608	2PT 009 496-802	6010	3SL 009 148-021	8133	9HD 905 437-001
4908	8JA 003 831-002	5608LRH	2PT 009 496-803	6011	3SL 009 148-061	8134	9HD 905 438-001
4909	8JB 001 939-003	5609	2PT 008 935-802	6012	3SL 009 148-071	8135	9HD 905 439-001
4911	8JA 001 918-003	5609-24V	2PT 008 935-812	6013	3SL 009 148-101	8136	9HD 905 440-001
4911BULK	8JA 001 918-004	5610	2PT 010 043-802	6014	3PB 003 001-602	8137	9HD 905 441-001
4912	8JB 001 943-091	5610LH	2PT 010 043-012	6015	3SL 910 035-001	8138	9HD 905 442-001
4913	8JB 001 946-033	5610LH-24V	2PT 010 043-032	6016	3SL 996 139-102	8139	9HD 905 443-001
4914	8JA 002 262-021	5610RH	2PT 010 043-022	6017	3SL 996 139-112	8140	9HD 905 444-001
4915	8JB 001 946-023	5610RH-24V	2PT 010 043-042	6018	3SL 996 139-002	8141	9HD 905 445-001
4916	8JB 004 777-013	5611	1L3 002 850-063	6021	3SB 905 413-001	8146	9HD 905 450-001
4917	8JB 004 123-005	5612/100	1K3 002 425-192	6022	3SB 905 413-241	8147	9HD 905 451-001
4918	8JB 905 388-001	5613	1FA 008 283-811	6023	3SL 950 751-011	8148	9HD 905 452-001
4920	8JB 910 032-011	5613BLUE	1FA 008 283-861	6025	3PA 004 206-041	8153	9HD 905 457-001
4921	8JA 910 032-001	5614	1NA 008 283-801	6026	3PA 004 206-051	8153SMOKE	9HD 905 457-011
4921BULK	8JA 910 032-002	5615	1FA 008 284-812	6027	3PB 003 001-612	8155	9HD 905 458-001
4930	8JB 905 391-011	5615BLUE	1FA 008 284-861	6032	3PB 005 411-002	8156	8XS 193 891-001
4931	8JA 905 391-021	5616	1NA 008 284-802	6041	6EH 905 414-001	8157	8XS 193 894-001
4932	8JB 905 391-031	5617	2PT 980 670-831	6043	3SL 905 415-001	8158	8XS 193 896-001
4933	8JA 905 391-041	56170E	2PT 980 670-812	6044	3SL 905 415-011	8160	9HD 905 460-001
4934	8JA 905 392-001	56170ESS	2PT 980 670-872	6047	3SL 905 415-021	8161	8XS 910 496-001
4934NY	8JA 905 392-011	5618	2PT 980 680-811	6048	3SL 905 415-031	8162	8XS 910 501-001
4935	8JB 905 392-021	5618-24V	2PT 980 680-852	6049	3SL 905 415-041	8163	8XS 206 161-001
4935NY	8JB 905 392-031	5619	2PT 980 880-801	6051	3SL 012 870-001	8200	8KW 905 461-001
4936	9GD 981 662-001	5619-24V	2PT 980 880-851	6052	3SL 012 871-001	8201	8KW 905 461-011
4937	8EZ 008 021-001	5619V	2PT 980 880-901	6100	8EV 003 361-001	8202	8KW 905 461-021
4938	8EZ 008 021-011	5619V-24V	2PT 980 880-951	6100-W	8EV 003 361-021	8203	8KW 905 461-031
4939	8JB 008 032-001	5620	1F1 905 406-001	6101	8EV 003 361-011	8204	8KW 905 461-041
4940	8JA 905 394-001	5623/100	1F6 954 982-021	7013	8PD 003 798-001	8205	8KW 905 461-051
4941	8JB 905 394-011	5625/100	1F4 956 011-021	7022	8PD 004 834-001	8206	8KW 905 462-001
4942	8JB 008 023-011	5630	2PT 980 860-841	7023	8PD 004 835-001	8207	8KW 905 464-001
4943	8JB 008 023-001	5630-24V	2PT 980 860-871	7026	8PD 004 838-001	8208	8KW 905 464-011
4950	8JA 905 395-001	5630-24VBL	2PT 980 860-872	7033	2JA 005 679-001	8209	8KW 905 465-001
4951	8JA 007 158-004	5630BL	2PT 980 860-842	7036	8PD 006 541-001	8210	8KW 905 466-001

PART NO.	SAP NO.	PART NO.	SAP NO.	PART NO.	SAP NO.	PART NO.	SAP NO.
8211	8KW 905 466-011	8342	8HL 905 491-121	8520	8KW 905 501-001	8739	8JS 981 758-001
8212	8KW 905 466-031	8342UV	8HL 905 491-131	8521	8KW 905 503-001	8740	8JS 981 759-001
8213	8KW 905 467-001	8343	8HL 905 491-141	8522	8KW 905 503-011	8741	8JS 981 760-001
8214	8KW 905 467-011	8343UV	8HL 905 491-151	8523	8KW 905 503-021	8742	8JS 910 017-071
8215	8KW 905 467-021	8344	8HL 905 491-161	8525	8KW 905 504-001	8743	8JS 910 017-081
8216	8KW 905 468-001	8344UV	8HL 905 491-171	8526	8KW 905 504-011	8744	8JS 910 017-091
8218	8KW 905 469-001	8345	8HL 905 491-181	8527	8KW 905 504-021	8745	8JS 910 017-101
8219	8KW 905 469-011	8345UV	8HL 905 491-191	8528	8KW 905 504-031	8746	8JS 910 017-111
8220	8KW 905 470-001	8346	8HL 905 491-202	8530	8KW 905 508-001	8750	8JS 025 889-001
8221	8KW 905 470-011	8346UV	8HL 905 491-211	8531	8KW 905 508-011	8751	8JS 091 603-001
8222	8KW 905 470-021	8347	8JR 950 888-001	8532	8KW 905 508-021	8753	8JS 089 015-001
8223	8KW 905 470-031	8348	8JR 950 888-011	8535	8KW 950 034-002	8771	8JS 905 527-001
8225	8KW 905 471-001	8349	8JR 910 196-001	8536	8KW 905 509-001	8771MINI	8JS 905 527-011
8226	8KW 905 471-011	8350	8JR 910 196-021	8537	8KW 905 509-011	8772	8JS 905 528-001
8227	8KW 905 471-021	8351	8JR 910 196-071	8540	8KW 905 510-001	8772MINI	8JS 905 528-011
8228	8KW 905 471-031	8352	8JR 910 196-041	8541	8KW 905 510-011	8773	8JS 905 529-001
8230	8KW 905 472-001	8353	8JR 910 196-051	8542	8KW 905 510-021	8773MINI	8JS 905 529-011
8231	8KW 905 472-021	8355	8JR 910 196-061	8543	8KW 905 510-031	8774	8JS 905 531-001
8232	8KW 905 472-011	8356	8JR 910 196-081	8544	8KW 905 510-041	8774MINI	8JS 905 531-011
8235	8KW 950 034-001	8357	8JR 910 196-011	8545	8KW 905 510-051	8775	8JS 905 533-001
8236	8KW 905 474-001	8358	8JR 910 196-031	8546	8KW 905 510-061	8775MINI	8JS 905 533-011
8237	8KW 905 475-001	8361	9MJ 910 188-081	8547	8KW 905 510-071	8776	8JS 905 534-001
8240	8KW 905 476-001	8362	9MJ 910 188-101	8548	8KW 905 510-081	8776MINI	8JS 905 534-011
8241	8KW 905 476-061	8363	9MJ 910 188-121	8549	8KW 905 511-001	8777	8JS 905 535-001
8242	8KW 905 476-011	8364	9MJ 910 188-141	8560	8KW 905 511-011	8777MINI	8JS 905 535-011
8243	8KW 905 476-021	8365	9MJ 910 188-001	8561	8KW 905 511-021	8778	8JS 905 536-001
8244	8KW 905 476-031	8366	9MJ 910 188-021	8562	8KW 905 511-031	8779	8JS 905 537-001
8245	8KW 905 476-041	8367	9MJ 910 188-041	8563	8KW 905 511-041	8779MINI	8JS 905 537-011
8246	8KW 905 476-051	8368	9MJ 910 188-061	8570	8KW 905 512-001	8780	8JS 905 327-001
8247	8KW 905 476-101	8371	9MJ 910 188-091	8571	8KW 905 512-011	8781	8JS 905 327-011
8248	8KW 905 476-071	8372	9MJ 910 188-111	8572	8KW 905 512-021	8782	8JS 905 327-021
8249	8KW 905 476-081	8373	9MJ 910 188-131	8573	8KW 905 512-031	8783	8JS 905 327-031
8260	8KW 905 476-091	8374	9MJ 910 188-151	8574	8KW 905 512-041	8784	8JS 905 327-041
8261	8KW 905 477-001	8375	9MJ 910 188-011	8575	8KW 905 513-001	8785	8JS 905 327-051
8262	8KW 905 477-011	8376	9MJ 910 188-031	8576	8KW 905 513-011	8786	8JS 905 327-061
8263	8KW 905 477-021	8377	9MJ 910 188-051	8577	8KW 905 513-021	8787	8JS 905 329-001
8270	8PE 905 478-001	8378	9MJ 910 188-071	8578	8KX 905 513-031	8788	8JS 905 329-011
8271	8PE 905 478-011	8379	9MJ 905 495-161	8579	8KX 905 515-001	8789	8JS 905 329-021
8272	8PE 905 478-021	8380	9MJ 905 495-171	8580	8KX 905 516-001	8790	8JS 905 540-001
8273	8PE 905 479-001	8452	8KV 002 139-001	8700	8JD 002 288-001	8791	8JS 905 540-011
8274	8PE 905 479-021	8453	8KV 002 140-001	8702	8JD 002 289-011	8792	8JS 905 540-021
8275	8PE 905 480-001	8454	8KV 002 141-001	8706	8JD 002 294-011	8793	8JS 905 540-031
8277	8PE 905 482-001	8455	8KV 002 137-001	8710	8JD 002 291-001	8794	8JS 905 540-041
8278	8PE 905 483-001	8500	8KW 905 496-001	8712	8JD 002 290-001	8795	8JS 905 540-051
8279	8PE 910 002-031	8501	8KW 905 496-011	8717	8KV 002 127-001	8796	8JS 905 540-061
8280	8KW 905 485-001	8502	8KW 905 496-021	8718	8JD 005 235-001	8800	8KL 905 541-001
8281	8KW 905 486-001	8503	8KW 905 496-031	8719	8JD 905 523-001	8801	8KL 905 541-011
8282	8KW 905 487-001	8504	8KW 905 496-041	8720	8JD 905 524-001	8802	8KL 905 541-021
8283	8KW 905 488-001	8505	8KW 905 496-051	8721	8JD 905 524-011	8803	8KL 905 541-031
8284	8KW 905 489-001	8506	8KW 905 497-001	8722	8JD 905 524-021	8804	8KL 905 541-041
8299	8PE 910 002-021	8507	8KW 905 498-011	8724	8JD 905 524-031	8805	8KL 905 541-051
8320	9MJ 905 490-001	8508	8KW 905 498-021	8725	8JD 005 993-093	8806	8KL 905 541-061
8321	9MJ 905 490-011	8509	8KW 905 498-031	8730	8JS 910 017-051	8807	8KL 905 541-071
8322	9MJ 905 490-021	8510	8KW 905 498-041	8731	8JS 910 017-061	8808	8KL 905 541-081
8323	9MJ 905 490-031	8511	8KW 905 498-051	8732	8JS 910 017-011	8810	8KL 905 541-091
8333UV	8HL 905 491-031	8512	8KW 905 498-061	8733	8JS 910 017-021	8811	8KL 905 541-101
8334UV	8HL 905 491-051	8513	8KW 905 499-001	8734	8JS 910 017-031	8812	8KL 905 541-111
8335UV	8HL 905 491-071	8514	8KW 905 499-011	8735	8JS 910 017-041	8813	8KL 905 541-121
8336UV	8HL 905 491-091	8515	8KW 905 499-021	8736	8JS 981 761-001	8814	8KL 905 541-131
8341	8HL 905 491-101	8518	8KW 905 500-001	8737	8JS 981 762-001	8815	8KL 905 541-141
8341UV	8HL 905 491-111	8519	8KW 905 500-011	8738	8JS 981 757-001	8816	8KL 905 541-151

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PART NO.	SAP NO.						
8817	8KL 905 541-161	9.1306.01	1F3 120 758-001	9.1389LED.01	1F8 181 541-011	9.1800.53	9MK 905 621-001
8818	8KL 905 541-171	9.1306.09	9BG 121 214-001	9.1394LED.01	9AG 195 614-001	9.1800.91	9XR 905 622-001
8820	8KL 905 541-181	9.1307.01	1FD 124 291-001	9.1394LEDHD.01	9AG 195 614-011	9.1800.92	9FF 905 623-001
8821	8KL 905 541-191	9.1307.09	9BG 905 574-001	9.1405.01	9EL 110 544-001	9.1811.05	9EY 905 624-001
8822	8KL 905 541-201	9.1308.01	1F4 135 230-011	9.1406.01	9EL 119 544-111	9.1811A.01	9EL 905 626-001
8823	8KL 905 541-211	9.1308.08	8HG 956 331-001	9.1408.01	9DF 998 525-081	9.2006.01	9EL 905 635-001
8825	8KL 905 541-221	9.1308.09	9BG 135 084-001	9.1413.02	9EL 113 928-001	9.2006.02	9EL 905 635-011
8826	8KL 905 541-231	9.1309.01	1FD 135 198-011	9.1500.01	9DF 992 663-001	9.2037.50	9AR 900 693-001
8827	8KL 905 541-241	9.1310.01	1FB 137 006-021	9.1511.01	9DS 121 707-001	9.2041.01	9EL 958 564-021
8828	8KL 905 541-251	9.1310.09	9BG 136 719-001	9.1511.06	6EB 005 633-001	9.2041.08	9FH 959 561-701
8832	8KL 905 542-001	9.1311.01	1FE 138 520-011	9.1511.07	9HG 123 896-001	9.2041.09	9BG 958 568-021
8833	8KL 905 542-011	9.1311.07	9AG 138 131-011	9.1512.01	9DS 909 650-001	9.2041.09BULK	9BG 958 568-027
8834	8KL 905 543-001	9.1311BLUE.01	1FE 158 877-011	9.1513.01	9DS 909 649-001	9.2042.01	9EL 910 089-011
8840	8KL 905 544-001	9.1311BLUE.07	9AG 138 131-001	9.1516.01	1GD 129 072-001	9.2043.01	9EL 954 004-011
8845	8KL 905 544-011	9.1318.01	1FE 161 641-011	9.1517.08	9XD 130 261-001	9.2044.01	9EL 910 089-021
8846	8KL 905 546-001	9.1319.03	5DV 008 855-001	9.1520.06	6EH 905 818-001	9.2045.01	9EL 910 089-031
8847	8KL 905 546-011	9.1319.04	5DV 008 856-002	9.1520.07	8KA 951 191-001	9.2046PC.01	9EL 958 564-211
8848	8KL 905 546-021	9.1324.01	1FB 187 883-001	9.1524.06	6EH 910 333-002	9.2053.07	8HG 910 273-001
8849	8KL 905 546-031	9.1325.01	1F6 187 887-001	9.1531.01	1GA 998 524-001	9.2053.08	9BG 910 274-001
8850	8KL 905 547-001	9.1326.01	1FD 187 888-001	9.1533.01	1GA 998 525-001	9.2053.08BULK	9BG 959 565-308
8851	8KL 905 547-011	9.1345.01	1F4 112 832-011	9.1533.03	1GA 998 525-051	9.2053.09	9BG 959 565-002
8852	8KA 910 236-011	9.1345.08	9XD 134 359-001	9.1533.08	8HG 992 378-001	9.2053.10BULK	8HG 959 565-038
8853	8KX 910 236-021	9.1345.09	9BG 124 569-001	9.1537.08	8HG 004 806-001	9.2053.11BULK	8HG 959 565-018
8854	8KX 910 236-001	9.1358.01	9DS 113 469-001	9.1539.01	1GM 990 303-041	9.2053.12BULK	8HG 959 565-068
8HG958000011	8HG 958 000-011	9.1360.01	1F9 136 799-001	9.1551LED.06	8KB 990 299-011	9.2053.13BULK	8HG 959 565-058
8HG958000021	8HG 958 000-021	9.1360.06	9HV 905 580-001	9.1600.01	9EL 905 601-001	9.2053.14BULK	9BG 959 565-048
8HG958455001	8HG 958 455-001	9.1360.07	9AG 123 807-021	9.1600.06	9EV 905 602-001	9.2053.15BULK	9BG 959 565-078
8HG958455011	8HG 958 455-011	9.1360.08	9HV 905 581-001	9.1600.07	9HG 905 603-001	9.2053.20BULK	9BG 959 565-408
8HG958455101	8HG 958 455-101	9.1361.01	1F9 136 797-001	9.1601.01	9EL 905 604-001	9.2064.01	9EL 110 542-001
8HG958455111	8HG 958 455-111	9.1361.08	9FF 135 906-051	9.1602.01	9EL 905 604-011	9.2065.01	9EL 074 484-081
8HG958455201	8HG 958 455-201	9.1362.01	1F7 133 525-011	9.1603.01	9EL 905 604-021	9.2073.09	9BG 980 996-001
8HG958455211	8HG 958 455-211	9.1362.08	9HV 125 435-001	9.1604.01	9EL 905 604-031	9.2101.01	9EL 116 771-031
8HG958455301	8HG 958 455-301	9.1362.09	9BG 130 167-001	9.1637.03	5DV 950 958-001	9.2105CLR.10	9HD 959 183-107
8HG958456001	8HG 958 456-001	9.1363.01	1F7 130 233-001	9.1655.03	5DV 905 934-001	9.2126.01	9EL 905 853-001
8HG958456101	8HG 958 456-101	9.1363.08	9FF 135 906-021	9.1701.01	9EL 856 415-031	9.2140.01	9EL 910 327-021
8HG959647001	8HG 959 647-001	9.1364.01	1F7 146 713-001	9.1708.01	9EL 856 415-001	9.2141.01	9EL 910 327-031
8HG959952002	8HG 959 952-002	9.1365.01	1F8 148 114-011	9.1709.01	9EL 856 416-011	9.2142.01	9EL 905 650-001
8HG959952012	8HG 959 952-012	9.1365.05	8KB 905 582-001	9.1710.01	9EL 856 415-011	9.2143.01	9EL 954 004-001
8XS910446001	8XS 910 446-001	9.1365.06	8HG 147 947-001	9.1713.01	9EL 856 416-001	9.2144.01	9EL 958 564-031
9.1001.01	9EL 905 566-001	9.1365.07	9AG 147 939-011	9.1717.01	9EL 856 417-001	9.2145PC.01	9EL 958 564-201
9.1009.09	9HD 980 885-017	9.1365.08	8KA 148 702-001	9.1717.05	9GD 856 562-001	9.2147.01	9EL 110 536-001
9.1009.10	9HD 980 885-107	9.1365CHROME.07	9AG 147 939-021	9.1717.23	9DX 859 560-001	9.2148.01	9EL 110 536-011
9.1025.07	9AB 905 931-001	9.1366.01	1F8 148 112-011	9.1717.52	9MN 858 616-001	9.2149.01	9EL 119 544-021
9.1027.01	9ES 122 221-001	9.1367.07	9AG 147 939-031	9.1717.54	9MN 860 032-001	9.2155.05	8KA 157 425-001
9.1027.02	9DE 131 520-011	9.1367HB.01	1F8 165 950-011	9.1718.01	9EL 856 417-011	9.2165.10	9HD 959 183-117
9.1027.03	9GD 120 748-001	9.1368HB.01	1F8 165 951-011	9.1719.01	9EL 910 318-001	9.2304.01	9EL 910 028-051
9.1027.04	9HD 121 297-031	9.1370.01	1F5 154 868-001	9.1720.52	9MN 858 616-012	9.2310.09BULK	9HD 980 858-007
9.1028.07	9GH 145 943-001	9.1370.08	8HG 153 808-001	9.1720.54	9MN 860 032-011	9.2310.10BULK	9HD 980 858-037
9.1029.07	9GH 152 654-001	9.1371.01	1F5 154 522-001	9.1724.01	9EL 856 418-021	9.2310.11BULK	9HD 980 858-017
9.1029.08	8JD 156 150-801	9.1376BLUEHB.01	1F8 162 871-011	9.1726.01	9EL 862 140-021	9.2310.12BULK	9HD 980 858-067
9.1029.09	9AH 157 659-001	9.1378.01	1F3 161 825-011	9.1726.23	9DX 862 740-001	9.2310.13BULK	9HD 980 858-057
9.1107.01	1ND 124 908-011	9.1378.08	8HG 161 969-001	9.1726.52	9MN 862 741-001	9.2310.14BULK	9HD 980 858-047
9.1108.01	1N4 905 570-001	9.1378BLUE.01	1F3 161 825-081	9.1727.01	9EL 862 140-041	9.2310.15BULK	9HD 980 858-077
9.1109.01	1ND 905 570-011	9.1378CHROME.08	8HG 161 969-011	9.1728.01	9EL 862 140-031	9.2310.16BULK	9HD 980 858-027
9.1110.01	1NB 137 001-021	9.1380.01	1F3 161 825-051	9.1737.91	9XR 854 840-011	9.2319.01	9EL 954 006-001
9.1111.01	1NE 138 555-011	9.1381.01	1F3 161 825-061	9.1786.01	9EL 860 627-001	9.2319.09	9BG 910 659-491
9.1115.08	8HG 153 152-001	9.1382.01	1F3 161 825-071	9.1786.54	9MN 860 677-001	9.2320.01	9EM 958 565-001
9.1124.01	1NB 187 883-101	9.1383.07	9AG 161 844-031	9.1790.01	9EL 860 627-011	9.2320.08	9FH 959 561-801
9.1125.01	1N6 187 887-101	9.1387.01	1F8 173 055-011	9.1794.01	9EL 862 171-001	9.2321PC.01	9EM 958 565-211
9.1160.02	9KS 071 567-001	9.1387.07	9AG 147 939-061	9.1795.01	9EL 378 327-001	9.2322.01	9EL 120 201-001
9.1300.08	8HG 956 399-001	9.1388.01	1F8 173 055-001	9.1796.01	9EL 378 326-001	9.2323.01	9EL 119 544-031

PART NO.	SAP NO.						
9.2325.01	9EL 110 540-001	9.5636.04	5DF 980 816-561	95951031	2XT 959 510-312	98058021	2XT 980 580-211
9.2330.08	9HD 958 421-141	9.6008.05	9GH 993 984-001	95951033	2XT 959 510-332	98058051	2XT 980 580-511
9.2330.10	9HD 959 065-038	9.6008.06	8KB 990 299-001	95951040	2XT 959 510-402	98058071	2XT 980 580-711
9.2330.11	9HD 959 065-018	9.7022.02	8PD 905 666-001	95951051	2XT 959 510-512	98058101	2XT 980 581-011
9.2330.12	9HD 959 065-068	9.7023.01	8PD 950 881-021	95951053	2XT 959 510-532	98058121	2XT 980 581-211
9.2330.13	9HD 959 065-058	9.HM360LENS	9EL 905 675-001	95951065	2XT 959 510-652	98058151	2XT 980 581-511
9.2330.14	9HD 959 065-048	9.HM400LENS	2RL 905 676-001	95951071	2XT 959 510-712	98058171	2XT 980 581-711
9.2330.15	9HD 959 065-008	9.HM46FX	8XX 910 084-051	95951073	2XT 959 510-732	98058201	2XT 980 582-011
9.2330.16	9HD 959 065-078	9.HM46FX	8XX 910 084-061	95951080	2XT 959 510-802	98058221	2XT 980 582-211
9.2330.17	9NH 959 059-008	9.HM46MP	9XX 910 084-071	95951095	2XT 959 510-952	98058241	2XT 980 582-411
9.2361.08	9HD 980 768-801	9.HM46MS	9KX 910 084-081	95959606	2JA 959 596-061	98058301	2XT 980 583-011
9.2361.09	9HD 980 767-801	9.HM4946	8KW 905 683-031	95959616	2JA 959 596-161	98058321	2XT 980 583-211
9.2365.10	9HD 959 183-127	9.HM4960.01	8KW 959 764-811	95959908	2JA 959 599-081	98058341	2XT 980 583-411
9.2368.01	9EL 905 651-001	9.HM4960.02	8KW 959 764-831	95959918	2JA 959 599-181	98058501	9AB 980 585-012
9.2377.08	9HD 980 712-021	9.HM4960.03	8KW 959 764-851	95963025	2XT 959 630-252	98058502	9AB 980 585-022
9.2377.09	9HD 980 712-821	9.HM4960.04	8KW 959 764-871	95963046	2XT 959 630-462	98058503	9AB 980 585-032
9.2378.08	9HD 980 712-001	9.HM4960.05	9GD 959 777-811	95963055	2XT 959 630-552	98058520	9AB 980 585-202
9.2378.09	9HD 980 712-801	9.HM4980.01	8KW 959 882-818	95968060	2XT 959 680-641	98058531	9AB 980 585-312
9.2378.10BULK	9HD 980 712-037	9.HM4980.02	8KW 959 882-518	95968070	2XT 959 680-761	98058701	2XT 980 587-011
9.2378.11BULK	9HD 980 712-017	9.HM4980.03	8KW 959 882-418	95968080	2XT 959 680-861	98058721	2XT 980 587-211
9.2378.12BULK	9HD 980 712-067	9.HM4980.04	8KW 959 882-118	95968090	2XT 959 680-941	98058741	2XT 980 587-411
9.2378.13BULK	9HD 980 712-057	9.HM4980.05	9GD 959 883-208	95968500	9AB 959 685-002	98058761	2XT 980 587-611
9.2378.14BULK	9HD 980 712-047	9.HM4980.06	9GD 959 883-008	95968502	9AB 959 685-022	98058801	2XT 980 588-011
9.2378.15BULK	9HD 980 712-007	9.HM4980.07	9GD 959 883-308	95968506	9AB 959 685-062	98058821	2XT 980 588-211
9.2378.16BULK	9HD 980 712-077	9.HM4980.09	9GD 959 883-508	95970010	2JA 959 700-112	98058841	2XT 980 588-411
9.2384.01	9EL 115 003-021	9.HM4993	8PD 910 299-001	95982030	2JA 959 820-302	98058861	2XT 980 588-611
9.2388.01	9EL 910 327-051	9.HM70BR	8HG 990 379-001	95982040	2JA 959 820-402	98059604	2JA 980 596-041
9.2394.08	8HG 980 726-001	9.HM759RED	9MK 910 109-301	95982050	2JA 959 820-502	98059614	2JA 980 596-141
9.2394.09	8HG 980 727-002	9.HM759YEL	9MK 910 109-311	95982070	2JA 959 820-702	98059704	2JA 980 597-041
9.2396.01	9EL 910 272-013	95901140	2XD 959 011-402	95982150	2JA 959 821-502	98059714	2JA 980 597-141
9.2397.01	9EM 954 602-003	95901145	2XD 959 011-452	95982250	2JA 959 822-502	98060400	2JA 980 604-002
9.2397.40	9GD 905 850-001	95901160	2XD 959 011-602	95999310	8HG 959 993-103	98060403	2JA 980 604-032
9.2398.01	9EL 905 071-001	95901165	2XD 959 011-652	95999311	8HG 959 993-113	98060420	2JA 980 604-202
9.2401.01	9EM 954 637-001	95903701	2XD 959 037-012	95999354	8HG 959 993-543	98060421	2JA 980 604-212
9.2414.01	9EL 136 825-001	95903711	2XD 959 037-112	95999360	8HG 959 993-603	98060450	2JA 980 604-501
9.2415.01	9EL 136 825-011	95903720	2JA 959 037-202	98050001	2XT 980 500-011	98060801	2JA 980 608-112
9.2419.01	9EL 118 700-001	95903721	2JA 959 037-212	98050021	2XT 980 500-211	98067020	2JA 980 670-202
9.2420.01	9EL 121 431-001	95903730	2JA 959 037-302	98050051	2XT 980 500-511	98067030	2JA 980 670-302
9.2421.01	9EL 129 519-001	95903731	2JA 959 037-312	98050071	2XT 980 500-711	98067038	1GA 980 670-382
9.2422.09	9BG 958 559-011	95903740	2JA 959 037-402	98050101	2XT 980 501-011	98067062	1GA 980 670-622
9.2422.09BULK	9BG 958 559-017	95903741	2JA 959 037-412	98050121	2XT 980 501-211	98069600	9GD 980 696-002
9.2423.06	9XX 958 608-041	95903761	2XD 959 037-612	98050151	2XT 980 501-511	98069620	9GD 980 696-201
9.2423.09	9BG 958 615-011	95903781	2XD 959 037-812	98050171	2XT 980 501-711	98069640	9GD 980 696-401
9.2557.01	9EL 910 336-100	95903791	2XD 959 037-912	98050201	2XT 980 502-011	98069660	9GD 980 696-601
9.2559.01	2KA 959 640-101	95906050	2XD 959 060-501	98050221	2XT 980 502-211	98071900	8HG 980 719-001
9.2559.02	2KA 959 640-131	95906080	2XD 959 060-801	98050241	2XT 980 502-411	98071901	8HG 980 719-011
9.2559.08	8HG 959 647-021	95907080	2XD 959 070-801	98050301	2XT 980 503-011	98074002	1GD 980 740-021
9.2559.09	8HG 959 647-031	95907360	2XD 959 073-602	98050321	2XT 980 503-211	98074022	1GD 980 740-221
9.2559.19	8HG 959 647-041	95907365	2XD 959 073-652	98050341	2XT 980 503-411	98074025	1GA 980 740-251
9.2604.05	9XD 344 118-102	95907370	2XD 959 073-702	98050701	2XT 980 507-011	98074032	1GD 980 740-321
9.2620.01	9EL 900 777-001	95907375	2XD 959 073-752	98050721	2XT 980 507-211	98074051	1GA 980 740-511
9.2652.09	9HD 980 885-007	95950501	9AB 959 505-012	98050741	2XT 980 507-411	98074060	1GA 980 740-601
9.2859.02	9DS 954 963-001	95950502	9AB 959 505-022	98050761	2XT 980 507-611	98085510	2XT 980 855-101
9.2862.01	9DS 993 880-001	95950520	9AB 959 505-203	98050801	2XT 980 508-011	98085515	2XT 980 855-151
9.2862.03	8JB 998 006-001	95950550	9AB 959 505-503	98050821	2XT 980 508-211	98085525	2XT 980 855-251
9.2862.08	8HG 998 519-001	95950552	9AB 959 505-521	98050841	2XT 980 508-411	98085535	2XT 980 855-351
9.2863.06	6EF 998 004-001	95950556	9AB 959 505-563	98050861	2XT 980 508-611	98085540	2XT 980 855-401
9.5609.01	2PT 008 935-002	95951001	2XT 959 510-012	98057300	1GA 980 573-001	98085550	2XT 980 855-501
9.5630.03	5DF 980 816-041	95951006	2XT 959 510-062	98057310	1GA 980 573-101	98087900	2JA 980 879-001
9.5630.04	5DF 980 816-541	95951015	2XT 959 510-152	98057330	1GA 980 573-301	98087910	2JA 980 879-101
9.5636.03	5DF 980 816-061	95951025	2XT 959 510-252	98058001	2XT 980 580-011	98091004	2XA 980 910-042

PART NO. / SAP NO. CROSS REFERENCE

PART NO.		SAP NO.	
98091024	2XA 980 910-242	CCB1255BL2	8GH 005 635-032
98091044	2XA 980 910-442	CD12100	8GH 002 857-152
98091064	2XA 980 910-642	CD12100BL	8GH 002 857-153
98091074	2XA 980 910-742	CD1255	8GH 002 857-124
98091100	2XD 980 911-002	CD24100	8GH 002 857-231
98091120	2XD 980 911-202	CD2470	8GH 002 857-242
98091140	2XD 980 911-402	CE1235	8GH 008 356-122
98091160	2XD 980 911-602	CF1265	8GH 008 357-002
98091170	2XD 980 911-702	CG1255	8GH 008 358-122
98095003	1GD 980 950-031	CG2470	8GH 008 358-242
98095014	1GD 980 950-141	CP1255BL	8GH 002 089-382
98095023	1GD 980 950-231	CP1255BL2	8GH 002 089-383
98095033	1GD 980 950-331	CU1255BL	8GH 002 089-321
9GD958028001	9GD 958 028-001	CU1255BL2	8GH 002 089-322
9GD959155107	9GD 959 155-107	CX1255BL	8GH 002 089-472
9GD959155507	9GD 959 155-507	CX1255BL2	8GH 002 089-475
9GD959515127	9GD 959 515-127	D1235/35	8GD 002 084-132
9GD959515207	9GD 959 515-207	D1245	8GA 002 074-131
9GD959517007	9GD 959 517-007	E1225	8GA 003 488-011
9GD980867007	9GD 980 867-007	E2425	8GA 003 488-021
9GD980867507	9GD 980 867-507	FD1221	8GA 002 073-161
9HD959027007	9HD 959 027-007	FD2421	8GA 002 073-031
9HD959027017	9HD 959 027-017	FL11CW4P	8GS 861 955-022
9HD959182007	9HD 959 182-007	FL11WW4P	8GS 861 955-032
9HD959182017	9HD 959 182-017	FL7CW4P	8GS 861 955-051
9HD959182027	9HD 959 182-027	FL7WW4P	8GS 861 955-041
9HD959182037	9HD 959 182-037	FL8	8GS 910 361-001
9NH959028017	9NH 959 028-017	G1210	8GA 002 071-134
A2455/50	8GD 002 088-252	G1210LL	8GA 002 071-342
B1245/40	8GD 002 084-152	G125	8GA 002 071-124
C12100	8GH 002 089-152	G125LL	8GA 002 071-352
C12100BL	8GH 002 089-154	G2410	8GA 002 071-253
C1255	8GH 002 089-131	G2410LL	8GA 002 071-272
C1255BL	8GH 002 089-132	G245	8GA 002 071-243
C1255LL	8GH 002 089-352	G245LL	8GA 002 071-262
C24100	8GH 002 089-452	G610	8GA 002 071-072
C24100BL	8GH 002 089-454	GD125	8GA 002 071-371
C2455	8GS 910 367-001	GD245	8GA 002 071-361
C2470	8GH 002 089-252	H122	8GP 002 068-122
C2470BL	8GH 002 089-254	H123	8GP 002 068-132
C2470LTS	8GH 002 089-492	H242	8GP 002 068-242
CA1255	8GH 007 157-124	H62	8GP 002 068-062
CA1255BL	8GH 007 157-128	HL124	8GP 002 067-152
CA1255LL	8GH 007 157-202	HL124LL	8GP 002 067-282
CA1265BL	8GH 007 157-071	HL126X	8GA 007 676-131
CA2470	8GH 007 157-242	HL244	8GP 002 067-243
CA2470LTS	8GH 007 157-232	HL244LL	8GP 002 067-262
CAB1255BL	8GH 007 157-182	HL64	8GP 002 067-062
CAB1255BL2	8GH 007 157-183	HLB124BL2	8GP 002 067-012
CAU1255BL	8GH 007 157-532	HM1500FB	1GA 011 293-021
CAU1255BL2	8GH 007 157-534	HM1500NB	1GA 011 293-011
CAX1255BL	8GH 007 157-474	HM1500WB	1GA 011 293-001
CAX1255BL2	8GH 007 157-475	HM1528WB-12	1GA 011 408-051
CB1255BL	8GH 002 089-142	HM1528WB-24	1GA 011 408-021
CB1255BL2	8GH 002 089-143	HM1550CIG	1GA 910 057-001
CB1265	8GH 956 174-041	HM1590WB	1GA 910 060-021
CBB1265BL	8GH 005 635-051	HM175AND	9MK 910 063-001
CBB1265BL2	8GH 005 635-052	HM300ADIR	2RL 910 073-001
CC1255	8GH 005 636-122	HM300AMAG	2RL 910 075-001
CC1265/55LL	8GJ 008 824-141	HM300BDIR	2RL 910 075-011
CCB1255BL	8GH 005 635-031	HM300BMAG	2RL 910 075-021
		HM300GDIR	2RL 910 075-031
		HM300GMAG	2RL 910 075-041
		HM300RDIR	2RL 910 075-051
		HM300RMAG	2RL 910 075-061
		HM300WDIR	2RL 910 075-071
		HM300WMAG	2RL 910 075-081
		HM350AND	9MK 910 077-001
		HM400ADIR	2RL 910 081-001
		HM400AMAG	2RL 910 082-001
		HM400BDIR	2RL 910 081-011
		HM400BMAG	2RL 910 082-011
		HM400GDIR	2RL 910 081-021
		HM400GMAG	2RL 910 082-021
		HM400RDIR	2RL 910 081-031
		HM400RMAG	2RL 910 082-031
		HM400WDIR	2RL 910 081-041
		HM400WMAG	2RL 910 082-041
		HM4400A	9MK 910 086-241
		HM4400A-12V	9MK 910 086-001
		HM4400B	9MK 910 086-251
		HM4400B-12V	9MK 910 086-011
		HM4400G	9MK 910 086-261
		HM4400G-12V	9MK 910 086-021
		HM4400R	9MK 910 086-271
		HM4400R-12V	9MK 910 086-031
		HM450ADIR	2RL 910 087-001
		HM450AMAG	2RL 910 087-031
		HM450ARDIR	2RL 910 087-201
		HM450BDIR	2RL 910 087-041
		HM450BMAG	2RL 910 087-051
		HM450GDIR	2RL 910 087-061
		HM450GMAG	2RL 910 087-071
		HM450GRDIR	2RL 910 087-211
		HM450RDIR	2RL 910 087-081
		HM450RMAG	2RL 910 087-091
		HM450WDIR	2RL 910 087-101
		HM450WMAG	2RL 910 087-111
		HM4612	2AA 910 084-001
		HM4618	2AA 910 084-011
		HM4624	2AA 910 084-021
		HM4630	2AA 910 084-031
		HM4960	8KW 959 772-821
		HM4960FM	9MK 910 095-001
		HM4961	8KW 959 772-851
		HM4961FM	8KW 959 773-847
		HM4962	8KW 959 772-861
		HM4963	8KW 959 774-821
		HM4963FM	8KW 959 774-817
		HM4964	8KW 959 774-831
		HM4965	8KW 959 774-841
		HM500ADIR	2RL 910 097-001
		HM500AMAG	2RL 182 653-002
		HM500BDIR	2RL 182 653-102
		HM500BMAG	2RL 182 653-202
		HM500GDIR	2RL 182 653-302
		HM500GMAG	2RL 182 653-402
		HM500RDIR	2RL 182 653-502
		HM500RMAG	2RL 182 653-602
		HM500WDIR	2RL 182 653-702
		HM500WMAG	2RL 182 653-802
		HM50AND	9MK 910 098-001
		HM70PI	8HG 990 263-001
		HM70PR	8HG 910 108-001
		HM7546B	8HG 177 305-021
		HM7546C	9HD 177 305-011
		HM7546J	8JB 177 305-001
		HM7546KIT	8HG 177 305-031
		HM7546P	8JA 177 305-101
		HM7590R	9MK 910 109-101
		HM7590Y	9MK 910 109-111
		HM7591S	9MK 910 109-201
		HM7592B	9MK 910 109-001
		HM7592Y	9MK 910 109-011
		HM8158	1GA 910 112-001
		HM8275	8PE 980 837-001
		HM8277	8PE 910 118-011
		HM8291	9XX 910 121-101
		HM8292	8KW 910 119-101
		HM8293	9MJ 178 458-821
		HM8294	8JS 009 257-831
		HM8295	8KW 009 254-841
		HM8296	9XX 011 959-001
		HM8298	8PE 980 838-001
		HM9500ADIR	2RL 011 585-001
		HM9500RDIR	2RL 011 585-011
		HM9600ADIR	2XD 011 557-001
		HM9600AMAG	2XD 011 557-051
		HM9600APIP	2XD 011 557-041
		HM9600BDIR	2XD 011 557-011
		HM9600GDIR	2XD 011 557-031
		HM9600RDIR	2XD 011 557-021
		HMAT85	9MJ 910 147-001
		HMP512VCP	8KW 910 168-001
		HMP512VKIT	8KW 910 169-001
		HMP512VPT	8KW 910 170-021
		HMP524VCP	8KW 910 168-241
		HMP524VKIT	8KW 910 169-351
		HMP524VPT	8KW 910 169-341
		HMP575B	9MK 910 171-011
		HMP575G	9MK 910 171-021
		HMP575R	9MK 910 171-041
		HMP575S	9MK 910 171-051
		HMP5PCAP	8KW 981 698-002
		HMP5PRO12VCP	8KW 910 168-011
		HMP5PRO12VKIT	8KW 910 169-011
		HMP5PRO12VPT	8KW 910 170-011
		HMP5PRO24VCP	8KW 910 168-251
		HMP5PRO24VKIT	8KW 910 169-331
		HMP5PRO24VPT	8KW 910 170-241
		HMWGA100	9GH 910 181-001
		HMWGA160	9GH 910 181-011
		HMWGA220	9GH 910 181-021
		HMWPR001	8KW 910 182-001
		HMWPR002	8KW 910 182-011
		J122	8GP 002 066-122
		J243	8GP 002 066-242
		K1210	8GM 002 091-133
		K1218	8GM 002 091-122
		K1221	8GM 002 091-182
		K2410	8GM 002 091-251
		K2418	8GM 002 091-242
		K2421	8GM 002 091-011

PART NO.	SAP NO.		
K618	8GM 002 091-021	XD1260/55BL	8GJ 002 525-133
L1210	8GM 993 406-002	XD1260/55LL	8GJ 002 525-482
L125	8GM 002 092-124	XD24100/90	8GJ 002 525-452
L245	8GM 002 092-243	XD2475/70	8GJ 002 525-254
L65	8GM 002 092-062	XD2475/70BL	8GJ 002 525-255
M123	8GM 002 094-121	XD2475/70LL	8GJ 002 525-701
M243	8GM 002 094-242	XD2475/70LTS	8GJ 002 525-712
N1210	8GM 002 091-301	XDB1260/55BL	8GJ 002 525-362
R1218	8GA 002 072-122	XDB1260/55BL2	8GJ 002 525-363
R1221	8GA 002 073-124	XDP1260/55BL	8GJ 002 525-002
R1221LL	8GA 002 073-272	XDP1260/55BL2	8GJ 002 525-003
R1232	8GA 002 071-081	XDU1260/55BL	8GJ 002 525-532
R2418	8GA 002 072-242	XDU1260/55BL2	8GJ 002 525-533
R2421	8GA 002 073-243	XDX1260/55BL	8GJ 002 525-822
R2421LL	8GA 002 073-252	XDX1260/55BL2	8GJ 002 525-823
R618	8GA 002 072-071	XE1260/55	8GJ 004 173-122
RQ1221	8GH 008 417-002	XE2475/70	8GJ 003 133-241
RQ2421	8GH 008 417-013	XN000	8GS 910 369-001
RY1221	8GA 006 841-122	XN4000	8GS 007 949-102
RY1221LL	8GA 006 841-041	XN4000CM	8GS 007 949-151
RY2421LL	8GA 006 841-252	XN4000WX	8GS 007 949-011
S1218/5V	8GD 002 078-291	XN4001	8GS 009 028-002
S1221/4Z	8GD 004 772-124	XN451	8GS 910 368-001
S1221/5P	8GD 002 073-021	XN551	8GS 910 362-001
S1221/5V	8GD 002 078-124	XN602	8GS 910 364-001
S1221/5VLL	8GD 002 078-172	XN6750	8GS 910 370-001
S1232/4V	8GD 002 078-051	XN7000	8GS 859 634-002
S2418/5P	8GD 340 175-011	XN850	8GS 910 366-001
S2418/5V	8GD 002 078-071	YC12100	8GH 002 090-051
S2421/5V	8GD 002 078-012	YC12100BL	8GH 002 090-052
S621/5V	8GD 002 078-062	YC1255	8GH 002 090-131
SEG700L	8PA 007 732-011	YC1255BL	8GH 002 090-133
SL150/24	8GH 002 504-011	YC1255LL	8GH 002 090-111
U1245	8GA 002 074-122	YC24100	8GH 002 090-452
U2445	8GA 002 074-242	YC24100BL	8GH 002 090-454
W121.2	8GP 002 095-121	YC2470	8GH 002 090-254
W122	8GP 002 095-071	YC2470BL	8GH 002 090-256
W1221	8GA 008 246-001	YCB1255BL	8GH 002 090-372
W125	8GP 003 594-124	YCB1255BL2	8GH 002 090-373
W125LL	8GP 003 594-161	YCP1255BL	8GH 002 090-021
W126BL2	8GH 007 643-122	YCP1255BL2	8GH 002 090-022
W126X	8GP 003 594-401	YCX1255BL	8GH 002 090-011
W241.2	8GP 002 095-242	YCX1255BL2	8GH 002 090-012
W245	8GP 003 594-243	YL1210	8GH 002 473-171
W61.2	8GP 002 095-031	YL1220	8GH 002 473-133
WBL122*	8GP 002 095-021	YL125	8GH 002 473-152
WBQ125BL2	8GP 003 594-291		
WG1221	8GA 008 892-001		
WG1221/5	8GD 008 893-001		
WGY1221	8GP 009 021-123		
WP1227/7	8GD 007 731-271		
WPA1227/7	8GD 007 731-011		
WS1212	8GP 002 095-051		
WS122	8GP 002 095-041		
WS242	8GP 002 095-011		
WY125	8GP 003 594-542		
XD12100/55	8GJ 002 525-102		
XD12100/80	8GJ 002 525-791		
XD12100/90	8GJ 002 525-202		
XD12100/90BL	8GJ 002 525-205		
XD1260/55	8GJ 002 525-131		

SAP NO. / PART NO. CROSS REFERENCE

SAP NO.	PART NO.						
2AA 001 200-005	2702	8GD 002 073-021	S1221/5P	8GM 002 092-062	L65	6HD 002 535-032	5225
2AA 001 200-013	2706	8GA 002 073-031	FD2421	8GM 002 092-124	L125	6HD 002 535-112	5226
2AA 001 200-025	2700	8GA 002 073-124	R1221	8GM 002 092-243	L245	2ZR 002 694-001	1413
2AA 001 200-033	2704	8GA 002 073-161	FD1221	8GM 002 094-121	M123	3BA 002 768-381	6002
2JA 001 330-005	2608	8GA 002 073-243	R2421	8GM 002 094-242	M243	6EK 002 843-057	4650
2KA 001 386-285	2550	8GA 002 073-252	R2421LL	8GP 002 095-011	WS242	1L3 002 850-062	1055
2KA 001 389-101	2555	8GA 002 073-272	R1221LL	8GP 002 095-021	WBL122*	1L3 002 850-063	5611
6BG 001 545-003	4300	8GA 002 074-122	U1245	8GP 002 095-031	W61.2	1L3 002 850-211	1055HD
6EK 001 559-002	4653	8GA 002 074-131	D1245	8GP 002 095-041	WS122	8GH 002 857-124	CD1255
6ED 001 563-005	4400	8GA 002 074-242	U2445	8GP 002 095-051	WS1212	8GH 002 857-152	CD12100
6ED 001 563-012	4403	8GD 002 078-012	S2421/5V	8GP 002 095-071	W122	8GH 002 857-153	CD12100BL
6EG 001 567-012	4450	8GD 002 078-051	S1232/4V	8GP 002 095-081	292	8GH 002 857-231	CD24100
6JF 001 571-002	4501	8GD 002 078-062	S621/5V	8GP 002 095-121	W121.2	8GH 002 857-242	CD2470
6JF 001 571-003	4503	8GD 002 078-071	S2418/5V	8GP 002 095-242	W241.2	2BA 002 939-171	2101
6JF 001 572-002	4502	8GD 002 078-124	S1221/5V	8KV 002 127-001	8717	3AL 002 952-011	6001
6HF 001 579-051	5227	8GD 002 078-172	S1221/5VLL	8KV 002 137-001	8455	3PB 003 001-602	6014
8JA 001 912-002	4972	8GD 002 078-291	S1218/5V	8KV 002 139-001	8452	3PB 003 001-612	6027
8JA 001 918-003	4911	8GD 002 084-132	D1235/35	8KV 002 140-001	8453	3PD 003 001-623	6007
8JA 001 918-004	4911BULK	8GD 002 084-152	B1245/40	8KV 002 141-001	8454	2BA 003 014-011	2147
8JB 001 939-003	4909	8GD 002 088-252	A2455/50	8KV 002 143-032	2757	2SA 003 014-051	2325
8JB 001 941-004	4901	8GH 002 089-131	C1255	8KV 002 145-002	2758	2PF 003 014-071	2064
8JB 001 941-005	4901BULK	8GH 002 089-132	C1255BL	8HG 002 156-001	8003	2ZR 003 014-091	1405
8JB 001 943-091	4912	8GH 002 089-142	CB1255BL	8JA 002 262-021	4914	2BA 003 014-111	2148
8JB 001 946-023	4915	8GH 002 089-143	CB1255BL2	8JD 002 288-001	8700	2ST 003 014-143	2384
8JB 001 946-033	4913	8GH 002 089-152	C12100	8JD 002 289-011	8702	2ZR 003 030-171	1403
2XM 001 974-182	1526	8GH 002 089-154	C12100BL	8JD 002 290-001	8712	8GJ 003 133-241	XE2475/70
8RA 002 014-033	2915	8GH 002 089-252	C2470	8JD 002 291-001	8710	1KB 003 177-061	1041
8RA 002 014-036	2915/1000	8GH 002 089-254	C2470BL	8JD 002 294-011	8706	1LB 003 177-301	1042
8RA 002 014-043	2917/1000	8GH 002 089-321	CU1255BL	6FG 002 312-003	4150	1LB 003 177-511	1044
8RA 002 014-054	2916/1000	8GH 002 089-322	CU1255BL2	8HG 002 365-001	8007	2SD 003 184-032	2419
8RA 002 014-131	2916	8GH 002 089-352	C1255LL	1L6 002 395-132	1058	2SE 003 184-102	2420
8RA 002 014-861	2917	8GH 002 089-382	CP1255BL	1L6 002 395-261	1058HD	2JA 003 231-013	2605
8RA 002 016-113	2902	8GH 002 089-383	CP1255BL2	1L6 002 395-843	1056	2ZR 003 236-311	1406
8RA 002 016-161	2910	8GH 002 089-452	C24100	1L6 002 395-844	5604	2BA 003 236-321	2149
8GP 002 066-122	J122	8GH 002 089-454	C24100BL	1L6 002 395-845	5604/100	2DA 003 236-331	2323
8GP 002 066-242	J243	8GH 002 089-472	CX1255BL	1K3 002 425-191	1040	2SA 003 236-341	2322
8GP 002 067-012	HLB124BL2	8GH 002 089-475	CX1255BL2	1K3 002 425-192	5612/100	8RA 003 326-001	2923-2BULK
8GP 002 067-062	HL64	8GH 002 089-492	C2470LTS	8GH 002 473-133	YL1220	8RA 003 326-017	2922-2/200
8GP 002 067-152	HL124	8GH 002 090-011	YCX1255BL	8GH 002 473-152	YL125	8RA 003 326-021	2924-2BULK
8GP 002 067-243	HL244	8GH 002 090-012	YCX1255BL2	8GH 002 473-171	YL1210	8RA 003 326-033	2923
8GP 002 067-262	HL244LL	8GH 002 090-021	YCP1255BL	8GH 002 504-011	SL150/24	8RA 003 326-043	2922
8GP 002 067-282	HL124LL	8GH 002 090-022	YCP1255BL2	8GJ 002 525-002	XDP1260/55BL	8RA 003 326-044	2922BULK
8GP 002 068-062	H62	8GH 002 090-051	YC12100	8GJ 002 525-003	XDP1260/55BL2	8RA 003 326-053	2924
8GP 002 068-122	H122	8GH 002 090-052	YC12100BL	8GJ 002 525-102	XD12100/55	4DM 003 360-021	3035
8GP 002 068-132	H123	8GH 002 090-111	YC1255LL	8GJ 002 525-131	XD1260/55	8EV 003 361-001	6100
8GP 002 068-242	H242	8GH 002 090-131	YC1255	8GJ 002 525-133	XD1260/55BL	8EV 003 361-011	6101
8GA 002 071-072	G610	8GH 002 090-133	YC1255BL	8GJ 002 525-202	XD12100/90	8EV 003 361-021	6100-W
8GA 002 071-081	R1232	8GH 002 090-254	YC2470	8GJ 002 525-205	XD12100/90BL	1LE 003 427-041	1043
8GA 002 071-124	G125	8GH 002 090-256	YC2470BL	8GJ 002 525-254	XD2475/70	1LG 003 434-181	1027
8GA 002 071-134	G1210	8GH 002 090-372	YCB1255BL	8GJ 002 525-255	XD2475/70BL	4RA 003 437-088	3084
8GA 002 071-243	G245	8GH 002 090-373	YCB1255BL2	8GJ 002 525-362	XDB1260/55BL	4RA 003 437-098	3085
8GA 002 071-253	G2410	8GH 002 090-452	YC24100	8GJ 002 525-363	XDB1260/55BL2	4DM 003 460-022	3017
8GA 002 071-262	G245LL	8GH 002 090-454	YC24100BL	8GJ 002 525-452	XD24100/90	4DM 003 474-002	3018
8GA 002 071-272	G2410LL	8GM 002 091-011	K2421	8GJ 002 525-482	XD1260/55LL	8GA 003 488-011	E1225
8GA 002 071-342	G1210LL	8GM 002 091-021	K618	8GJ 002 525-532	XDU1260/55BL	8GA 003 488-021	E2425
8GA 002 071-352	G125LL	8GM 002 091-122	K1218	8GJ 002 525-533	XDU1260/55BL2	4RD 003 520-095	3081
8GA 002 071-361	GD245	8GM 002 091-133	K1210	8GJ 002 525-701	XD2475/70LL	8JA 003 526-005	4973
8GA 002 071-371	GD125	8GM 002 091-182	K1221	8GJ 002 525-712	XD2475/70LTS	8JA 003 526-006	4973BULK
8GA 002 072-071	R618	8GM 002 091-242	K2418	8GJ 002 525-791	XD12100/80	4RA 003 530-043	3076
8GA 002 072-122	R1218	8GM 002 091-251	K2410	8GJ 002 525-822	XDX1260/55BL	4RA 003 530-052	3077
8GA 002 072-242	R2418	8GM 002 091-301	N1210	8GJ 002 525-823	XDX1260/55BL2	6ZF 003 549-003	4550

SAP NO.	PART NO.						
6ZF 003 549-022	4551	8GH 005 635-032	CCB1255BL2	8GH 007 157-202	CA1255LL	2RL 008 181-102	1605
8GP 003 594-124	W125	8GH 005 635-051	CBB1265BL	8GH 007 157-232	CA2470LTS	2RL 008 181-112	1605-24V
8GP 003 594-161	W125LL	8GH 005 635-052	CBB1265BL2	8GH 007 157-242	CA2470	2RL 008 182-102	1606
8GP 003 594-243	W245	8GH 005 636-122	CC1255	8GH 007 157-474	CAX1255BL	2RL 008 183-101	1607
8GP 003 594-291	WBQ125BL2	2JA 005 679-001	7033	8GH 007 157-475	CAX1255BL2	2RL 008 183-111	1607-24V
8GP 003 594-401	W126X	1ND 005 700-021	1109	8GH 007 157-532	CAU1255BL	1K0 008 191-001	1030-12V
8GP 003 594-542	WY125	1ND 005 700-022	5643	8GH 007 157-534	CAU1255BL2	1K0 008 191-021	1030-24V
4DB 003 750-722	3016	1FD 005 700-111	1309	8JA 007 158-004	4951	1K0 008 191-041	1031-24V
4DB 003 750-741	3016LED1	1FD 005 700-112	5644/100	2RL 007 337-001	1732	1BL 008 193-001	1029-12V
4DB 003 750-751	3016LED2	1N4 005 750-041	1108	2RL 007 337-011	1732-24V	8GA 008 246-001	W1221
4AZ 003 787-002	3014HD	1N4 005 750-042	5641	2RL 007 337-021	1733	2BA 008 260-002	2103-24V
4AZ 003 787-023	3015HD	1F4 005 750-111	5642/100	6DF 007 365-001	4562	2BA 008 260-012	2103-12V
8PD 003 798-001	7013	1F4 005 750-301	1308	2JA 007 372-003	2644	1F5 008 273-001	1371
8JA 003 831-002	4908	1NB 005 860-001	1110	2JA 007 372-013	2644-24V	1F5 008 273-021	1370
8JB 003 833-002	4907	1NB 005 860-002	5645	2JA 007 373-003	2642	1NA 008 283-001	1122
4DW 003 944-052	3032	1FB 005 860-032	5646/100	2JA 007 373-013	2642-24V	1FA 008 283-011	1322
6JB 003 959-002	4005	1FB 005 860-033	1310	2JA 007 373-063	2643	1NA 008 283-801	5614
2BE 004 119-021	2158	2ZR 005 860-153	1410	2JA 007 373-073	2643-24V	1FA 008 283-811	5613
8JB 004 123-005	4917	8JD 005 993-093	8725	3FH 007 424-804	6004	1FA 008 283-861	5613BLUE
8GJ 004 173-122	XE1260/55	2VP 006 040-112	2414	1GA 007 506-001	1533	1NA 008 284-001	1123
3PA 004 206-041	6025	8HG 006 294-011	8007FM	2RL 007 550-001	1786	1FA 008 284-011	1323
3PA 004 206-051	6026	8HG 006 294-091	8007SCR	2RL 007 550-011	1787	1NA 008 284-802	5616
9NM 004 208-002	2746	8HG 006 294-111	8007RA	2RL 007 552-011	1792	1FA 008 284-812	5615
9NM 004 209-002	2747	2RL 006 295-001	1700	2RL 007 552-011	1793	1FA 008 284-861	5615BLUE
8KV 004 259-031	2759	2RL 006 295-011	1703	2RL 007 553-002	1790	2BM 008 355-002	2155
6FH 004 406-053	4151	2RL 006 295-301	1702	1F8 007 560-101	1366	2BM 008 355-012	2155CLR
8RA 004 412-002	2919	2RL 006 295-321	1701	1F8 007 560-111	1165	8GH 008 356-122	CE1235
8RA 004 412-006	2919/200	2RL 006 295-331	1704	1F8 007 560-121	1365	8GH 008 357-002	CF1265
8RA 004 412-008	2919BULK	2RL 006 295-351	1705	1F8 007 560-131	1376BLUE	8GH 008 358-122	CG1255
8RA 004 412-011	2921/200	1NE 006 300-071	1111	1F8 007 560-141	1365CHROME	8GH 008 358-242	CG2470
8RA 004 412-012	2921	1FE 006 300-121	1311	1F8 007 560-151	1366CHROME	2PT 008 362-802	5603
8RA 004 412-021	2920/200	1FE 006 300-261	1311BLUE	1F8 007 560-321	1376BLUEHB	2PT 008 362-811	5603L
8RA 004 412-022	2920	8PD 006 535-001	7039	1F8 007 560-601	1368HB	2PT 008 362-821	5603R
2KA 004 525-001	2558	8PD 006 536-001	7040	1F8 007 560-611	1367HB	8GH 008 417-002	RQ1221
2AB 004 532-105	2637	8PD 006 541-001	7036	1F8 007 560-641	1368HB-24V	8GH 008 417-013	RQ2421
2AB 004 532-162	2636	8PD 006 542-001	7037	1F8 007 560-701	1388	4DN 008 768-022	3033
2AB 004 532-172	2633	2DA 006 631-002	5242	1F8 007 560-711	1387	1FE 008 773-001	1318
1F7 004 700-151	1363	2PF 006 679-001	2066	1F8 007 560-741	1388-24V	8GJ 008 824-141	CC1265/55LL
1F7 004 700-171	1362	2PF 006 679-011	2067	8JA 007 589-003	4952	5DV 008 855-001	9.1319.03
1F7 004 700-431	1364	2SA 006 679-021	2324	8GH 007 643-122	W126BL2	5DV 008 856-002	9.1319.04
8RB 004 713-002	2925	2PF 006 679-051	2065	8GA 007 676-131	HL126X	8GA 008 892-001	WG1221
8GD 004 772-124	S1221/4Z	2BM 006 692-012	2153	3FH 007 728-835	6005	8GD 008 893-001	WG1221/5
8JB 004 777-013	4916	2BM 006 692-022	2154	8GD 007 731-011	WPA1227/7	2XT 008 929-002	2622
6ED 004 778-013	4412	8XT 006 798-002	2786	8GD 007 731-271	WP1227/7	2PT 008 935-002	9.5609.01
6ED 004 778-023	4411	8JA 006 801-802	2782	8PA 007 732-011	SEG700L	2PT 008 935-802	5609
8HG 004 806-001	9.1537.08	8JA 006 803-802	2783	2JA 007 750-012	2621	2PT 008 935-812	5609-24V
8PD 004 834-001	7022	8JA 006 805-802	2784	1BL 007 834-001	1028	8GP 009 021-123	WGY1221
8PD 004 835-001	7023	8JA 006 807-802	2785	8GS 007 949-011	XN4000WX	8GS 009 028-002	XN4001
8PD 004 838-001	7026	8GA 006 841-041	RY1221LL	8GS 007 949-102	XN4000	1F3 009 094-021	1378
2RL 004 957-001	1711	8GA 006 841-122	RY1221	8GS 007 949-151	XN4000CM	1F3 009 094-031	1378CHROME
2RL 004 957-111	1713	8GA 006 841-252	RY2421LL	8EZ 008 021-001	4937	1F3 009 094-101	1380
2RL 004 957-151	1712	2RL 006 846-001	1730	8EZ 008 021-011	4938	1F3 009 094-111	1380CHROME
2RL 004 957-161	1709	2RL 006 846-011	1731	8JB 008 023-001	4943	1F3 009 094-121	1381
2RL 004 957-171	1708	1GB 006 991-442	1500	8JB 008 023-011	4942	1F3 009 094-141	1382
2RL 004 957-301	1710	1GA 007 118-002	2859	8JB 008 032-001	4939	1F3 009 094-171	1378BLUE
8JD 005 235-001	8718	1GA 007 118-011	1519	2RL 008 061-142	1728	1F3 009 094-301	1383
3PB 005 411-002	6032	8GH 007 157-071	CA1265BL	2RL 008 062-132	1729	1F3 009 094-311	1384
6EK 005 519-002	2765	8GH 007 157-124	CA1255	2RL 008 065-002	1794	3SL 009 148-001	6008
2BA 005 603-001	2150	8GH 007 157-128	CA1255BL	2RL 008 065-131	1795	3SL 009 148-011	6009
6EB 005 633-001	9.1511.06	8GH 007 157-182	CAB1255BL	2RL 008 065-141	1796	3SL 009 148-021	6010
8GH 005 635-031	CCB1255BL	8GH 007 157-183	CAB1255BL2	1NL 008 090-821	5647	3SL 009 148-061	6011

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SAP NO.	PART NO.	SAP NO.	PART NO.	SAP NO.	PART NO.	SAP NO.	PART NO.
3SL 009 148-071	6012	3SL 012 870-001	6051	9FF 135 906-051	9.1361.08	2RL 182 653-302	HM500GDIR
3SL 009 148-101	6013	3SL 012 871-001	6052	9BG 136 719-001	9.1310.09	2RL 182 653-402	HM500GMAG
8KW 009 254-841	HM8295	8JS 025 889-001	8750	1F9 136 797-001	9.1361.01	2RL 182 653-502	HM500RDIR
8JS 009 257-831	HM8294	9SL 042 991-002	4654	1F9 136 799-001	9.1360.01	2RL 182 653-602	HM500RMAG
4DM 009 492-002	3037	9KS 071 567-001	9.1160.02	9EL 136 825-001	9.2414.01	2RL 182 653-702	HM500WDIR
4DW 009 492-012	3038	9EL 074 484-031	2.6846.01	9EL 136 825-011	9.2415.01	2RL 182 653-802	HM500WMAG
4DN 009 492-102	3036	9EL 074 484-081	9.2065.01	8XS 137 000-001	8123	1FB 187 883-001	9.1324.01
4DW 009 492-112	3039	8JS 089 015-001	8753	1NB 137 001-021	9.1110.01	1NB 187 883-101	9.1124.01
2PT 009 496-802	5608	8JS 091 603-001	8751	1FB 137 006-021	9.1310.01	1F6 187 887-001	9.1325.01
2PT 009 496-803	5608LRH	9EL 110 536-001	9.2147.01	8XS 138 127-001	8124	1N6 187 887-101	9.1125.01
2PT 009 599-012	5607LH	9EL 110 536-011	9.2148.01	9AG 138 131-001	9.1311BLUE.07	1FD 187 888-001	9.1326.01
2PT 009 599-022	5607RH	9EL 110 540-001	9.2325.01	9AG 138 131-011	9.1311.07	8XS 193 891-001	8156
2PT 009 599-802	5607	9EL 110 542-001	9.2064.01	1FE 138 520-011	9.1311.01	8XS 193 894-001	8157
1F8 009 797-221	1390	9EL 110 544-001	9.1405.01	1NE 138 555-011	9.1111.01	8XS 193 896-001	8158
1F8 009 797-231	1390CHROME	1F4 112 832-011	9.1345.01	9GH 145 943-001	9.1028.07	9AG 195 614-001	9.1394LED.01
1F8 009 797-241	1391	9DS 113 469-001	9.1358.01	1F7 146 713-001	9.1364.01	9AG 195 614-011	9.1394LEDH.01
1F8 009 797-251	1391CHROME	9EL 113 928-001	9.1413.02	9AG 147 939-011	9.1365.07	8XS 206 161-001	8163
2PT 010 043-012	5610LH	1K3 114 155-001	1053	9AG 147 939-021	9.1365CHROME.07	8GD 340 175-011	S2418/5P
2PT 010 043-022	5610RH	1K3 114 155-002	5605	9AG 147 939-031	9.1367.07	8RB 342 007-101	2926
2PT 010 043-032	5610LH-24V	1M3 114 178-001	1054	9AG 147 939-061	9.1387.07	2JB 343 227-002	2604
2PT 010 043-042	5610RH-24V	1M3 114 178-002	5606	8XS 147 945-001	8125	2JA 343 680-172	2646
2PT 010 043-802	5610	9EL 115 003-021	9.2384.01	8HG 147 947-001	9.1365.06	2JA 343 700-272	2647
1F3 010 119-011	1393	8HG 116 741-801	8004	1F8 148 112-011	9.1366.01	2JA 343 720-023	2638
1F3 010 119-031	1392	9EL 116 771-031	9.2101.01	1F8 148 114-011	9.1365.01	2JA 343 720-211	2639
1F3 010 119-111	1393CHROME	9EL 118 700-001	9.2419.01	8KA 148 702-001	9.1365.08	9XD 344 118-102	9.2604.05
1F3 010 119-131	1392CHROME	8XS 119 454-001	8112	9HG 148 995-001	8126	2RL 378 294-001	1726
1FB 010 951-001	1324	9EL 119 544-021	9.2149.01	9GH 152 654-001	9.1029.07	2RL 378 295-001	1726-24V
1NB 010 951-101	1124	9EL 119 544-031	9.2323.01	8HG 153 152-001	9.1115.08	2RL 378 297-002	1727
1FB 010 951-601	5648/100	9EL 119 544-111	9.1406.01	8HG 153 808-001	9.1370.08	2RL 378 298-002	1727-24V
1NB 010 951-701	5649	9EL 120 201-001	9.2322.01	8XS 154 186-001	8108	2RL 378 299-002	1728-24V
1F6 010 952-001	1325	9GD 120 748-001	9.1027.03	1F5 154 522-001	9.1371.01	9EL 378 326-001	9.1796.01
1N6 010 952-101	1125	1F3 120 758-001	9.1306.01	1F5 154 868-001	9.1370.01	9EL 378 327-001	9.1795.01
1F6 010 952-601	5650/100	9BG 121 214-001	9.1306.09	8JD 156 150-801	9.1029.08	9SL 706 729-012	4652
1N6 010 952-701	5651	9HD 121 297-031	9.1027.04	8KA 157 425-001	9.2155.05	9XR 854 840-011	9.1737.91
1FD 010 953-001	1326	9EL 121 431-001	9.2420.01	9AH 157 659-001	9.1029.09	9EL 856 415-001	9.1708.01
1ND 010 953-101	1126	9DS 121 707-001	9.1511.01	1FE 158 877-011	9.1311BLUE.01	9EL 856 415-011	9.1710.01
1FD 010 953-601	5652/100	9ES 122 221-001	9.1027.01	1FE 161 641-011	9.1318.01	9EL 856 415-031	9.1701.01
1ND 010 953-701	5653	8XS 123 764-001	8116	1F3 161 825-011	9.1378.01	9EL 856 416-001	9.1713.01
2RL 010 979-001	1611	9AG 123 807-021	9.1360.07	1F3 161 825-051	9.1380.01	9EL 856 416-011	9.1709.01
2RL 010 979-011	1612	9HG 123 896-001	9.1511.07	1F3 161 825-061	9.1381.01	9EL 856 417-001	9.1717.01
2RL 010 979-021	1613	8XS 124 016-001	8114	1F3 161 825-071	9.1382.01	9EL 856 417-011	9.1718.01
1F8 011 002-001	1389LED	1FD 124 291-001	9.1307.01	1F3 161 825-081	9.1378BLUE.01	9EL 856 418-021	9.1724.01
1GA 011 293-001	HM1500WB	9BG 124 569-001	9.1345.09	9AG 161 844-031	9.1383.07	9GD 856 562-001	9.1717.05
1GA 011 293-011	HM1500NB	1ND 124 908-011	9.1107.01	8HG 161 969-001	9.1378.08	9MN 858 616-001	9.1717.52
1GA 011 293-021	HM1500FB	9HV 125 435-001	9.1362.08	8HG 161 969-011	9.1378CHROME.08	9MN 858 616-012	9.1720.52
1GA 011 408-021	HM1528WB-24	8XS 127 740-001	8106	1F8 162 871-011	9.1376BLUEHB.01	9DX 859 560-001	9.1717.23
1GA 011 408-051	HM1528WB-12	1GD 129 072-001	9.1516.01	1F8 165 950-011	9.1367HB.01	8GS 859 634-002	XN7000
2RL 011 484-001	1608	9EL 129 519-001	9.2421.01	1F8 165 951-011	9.1368HB.01	9MN 860 032-001	9.1717.54
2RL 011 484-011	1609	9BG 130 167-001	9.1362.09	1F8 173 055-001	9.1388.01	9MN 860 032-011	9.1720.54
2RL 011 484-021	1610	1F7 130 233-001	9.1363.01	1F8 173 055-011	9.1387.01	9EL 860 627-001	9.1786.01
2XD 011 557-001	HM9600ADIR	9XD 130 261-001	9.1517.08	8JB 177 305-001	HM7546J	9EL 860 627-011	9.1790.01
2XD 011 557-011	HM9600BDIR	8XS 130 330-001	8118	9HD 177 305-011	HM7546C	9MN 860 677-001	9.1786.54
2XD 011 557-021	HM9600RDIR	9DE 131 520-011	9.1027.02	8HG 177 305-021	HM7546B	8GS 861 955-022	FL11CW4P
2XD 011 557-031	HM9600GDIR	1F7 133 525-011	9.1362.01	8HG 177 305-031	HM7546KIT	8GS 861 955-032	FL11WW4P
2XD 011 557-041	HM9600APIP	9XD 134 359-001	9.1345.08	8JA 177 305-101	HM7546P	8GS 861 955-041	FL7WW4P
2XD 011 557-051	HM9600AMAG	8XS 135 037-002	8122	4JZ 177 846-007	3040	8GS 861 955-051	FL7CW4P
2RL 011 585-001	HM9500ADIR	9BG 135 084-001	9.1308.09	9MJ 178 458-821	HM8293	9EL 862 140-021	9.1726.01
2RL 011 585-011	HM9500RDIR	1FD 135 198-011	9.1309.01	1F8 181 541-011	9.1389LED.01	9EL 862 140-031	9.1728.01
1F3 011 815-001	1394LED	1F4 135 230-011	9.1308.01	2RL 182 653-002	HM500AMAG	9EL 862 140-041	9.1727.01
1F3 011 815-031	1394LEDH.01	8XS 135 236-001	8121	2RL 182 653-102	HM500BDIR	9EL 862 171-001	9.1794.01
9XX 011 959-001	HM8296	9FF 135 906-021	9.1363.08	2RL 182 653-202	HM500BMAG	9DX 862 740-001	9.1726.23

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9MN 862 741-001	9.1726.52	2RL 905 126-001	1643	8JS 905 327-001	8780	6EH 905 361-001	4453
2PS 900 139-012	2029	2RL 905 126-011	1644	8JS 905 327-011	8781	6EH 905 361-011	4454
2PF 900 139-022	2030	2RL 905 126-021	1645	8JS 905 327-021	8782	6EH 905 361-021	4456
9AR 900 693-001	9.2037.50	2RL 905 127-001	1637	8JS 905 327-031	8783	6EH 905 361-031	4460
2PF 900 711-261	2009	2RL 905 127-011	1638	8JS 905 327-041	8784	6EH 905 362-001	4461
2PF 900 711-301	2023	2RL 905 127-021	1639	8JS 905 327-051	8785	6EH 905 363-001	4470
2ST 900 739-037	2386	2RL 905 127-031	1646	8JS 905 327-061	8786	6EH 905 363-011	4471
2BA 900 739-101	2135	2RL 905 127-041	1647	8JS 905 329-001	8787	6EH 905 363-021	4472
2SB 900 739-111	2314	2RL 905 128-001	1648	8JS 905 329-011	8788	6EH 905 363-031	4473
2BA 900 739-121	2135PC	8HG 905 129-001	1653	8JS 905 329-021	8789	6EH 905 363-041	4474
2SB 900 739-791	2314PC	2RL 905 130-001	1655	4RA 905 330-001	3053	6FH 905 363-051	4475
2BA 900 741-211	2136	2RL 905 130-011	1656	4RA 905 330-011	3055	6FH 905 363-061	4476
2SB 900 741-221	2315	2RL 905 130-021	1657	4RD 905 330-021	3057	6FH 905 363-071	4477
2TA 900 741-231	2316	2RL 905 131-001	1659	4RA 905 330-031	3059	6FH 905 363-081	4478
2JA 900 741-241	2610	2RL 905 132-001	1661	4RA 905 330-041	3061	6FH 905 363-091	4479
2BE 900 741-251	2063	2RL 905 133-001	1663	4RA 905 330-241	3054	6FH 905 363-101	4480
2JA 900 741-291	2611	2RL 905 134-001	1668	4RA 905 330-251	3056	6FH 905 363-111	4481
2BA 900 763-291	2127	2RL 905 134-021	1670	4RD 905 330-261	3058	6FH 905 364-001	4482
2BA 900 763-301	2128	2BM 905 136-001	2117	4RA 905 330-271	3060	6FH 905 364-011	4483
2BA 900 763-311	2129	2RL 905 137-001	1717	4RA 905 330-281	3062	6GH 905 364-021	4484
9EL 900 777-001	9.2620.01	2RL 905 137-011	1718	6JK 905 339-001	4008HD	6JB 905 371-001	4506
2VB 900 807-011	2368	2RL 905 137-021	1719	6JK 905 340-001	4010	6ZF 905 373-001	4553
2RL 900 917-011	1696	2RL 905 138-001	1719MAG	6EB 905 341-001	4020	6DD 905 374-001	4560
2RL 900 917-031	1688	2RL 905 139-001	1720	6EB 905 341-011	4021	6DL 905 375-001	4565
2RL 900 917-041	1689	2RL 905 139-011	1721	6EB 905 341-021	4022	6DL 905 375-011	4566
2RL 900 917-051	1691	2RL 905 139-021	1722	9GH 905 342-001	4024	6DL 905 375-021	4567
2SB 900 947-011	2304	2RL 905 140-001	1722MAG	6RD 905 343-001	4055	6DL 905 375-031	4568
2KA 900 967-031	2557	2RL 905 143-001	1724	6FG 905 343-011	4056	6EZ 905 376-001	4569
2BA 901 227-042	2100	2RL 905 145-001	1735	6EJ 905 344-001	4100	6EZ 905 376-021	4570
2PF 901 227-061	2077	2RL 905 146-001	1811A	6FG 905 345-001	4152	6ZL 905 376-031	4571
2BE 901 227-161	2070	2RL 905 146-011	1811MAGA	6FG 905 346-001	4202	6ZL 905 376-041	4574
2DA 901 227-191	2303	1V6 905 152-001	1016	6FG 905 347-001	4206	1ND 905 378-001	5632
2PF 901 227-231	2078	1VE 905 153-001	1024	6FG 905 348-001	4302	8JA 905 386-001	4902
2PF 901 227-241	2000	9AB 905 225-001	2.6826.03	6EG 905 351-001	4420	8JB 905 388-001	4918
2ST 901 227-401	2351	6EK 905 226-001	4647	6EG 905 351-011	4421	8JB 905 391-011	4930
2SB 901 227-501	2350	9EL 905 230-001	2.9800.01	6EG 905 351-021	4422	8JA 905 391-021	4931
2BE 901 227-541	2072	9EL 905 231-001	2.9800.02	6EG 905 351-031	4423	8JB 905 391-031	4932
2ST 901 227-761	2353	6EK 905 249-001	4657	6EG 905 351-041	4424	8JA 905 391-041	4933
6EB 904 341-031	4023	6EK 905 250-001	2769	6EH 905 352-001	4426	8JA 905 392-001	4934
2VB 905 002-021	2396	2JA 905 253-001	2612	6EH 905 352-011	4427	8JA 905 392-011	4934NY
1FD 905 045-001	1107	2PS 905 263-001	2037	6EH 905 352-021	4428	8JB 905 392-021	4935
1F1 905 049-001	1300	2PS 905 264-001	2038	6EH 905 352-031	4429	8JB 905 392-031	4935NY
1FD 905 054-001	1307	2BA 905 272-001	2140	6EH 905 352-041	4430	8JA 905 394-001	4940
2PF 905 055-011	2042	2BA 905 273-001	2142	8HG 905 353-001	4431	8JB 905 394-011	4941
2PF 905 055-021	2044	2VB 905 276-001	2400	8HG 905 353-011	4432	8JA 905 395-001	4950
2PF 905 055-031	2045	2VD 905 277-001	2401	6EG 905 354-001	4433	6EK 905 397-001	4655
1F4 905 057-001	1345	2SK 905 289-001	2415	6EG 905 354-011	4434	8KB 905 401-001	5223
2VA 905 070-001	2398	2AA 905 300-001	2708	6EG 905 354-021	4435	8KB 905 404-001	5224
9EL 905 071-001	9.2398.01	2AA 905 300-011	2709	6EG 905 354-031	4436	1F1 905 406-001	5620
1F8 905 091-001	1360	2AA 905 300-021	2710	6EH 905 356-001	4439	3SB 905 413-001	6021
1F8 905 092-001	1361	2AA 905 300-031	2711	6EH 905 356-011	4440	3SB 905 413-241	6022
1G4 905 107-001	1511	2AA 905 301-001	2712	6EH 905 356-021	4441	6EH 905 414-001	6041
1G4 905 108-001	1512	2AA 905 301-011	2713	6EH 905 356-031	4442	3SL 905 415-001	6043
1G4 905 109-001	1513	2AA 905 301-021	2714	6EH 905 356-041	4443	3SL 905 415-011	6044
2XM 905 113-001	1520	2AA 905 301-031	2715	6EH 905 357-001	4444	3SL 905 415-021	6047
2BA 905 115-001	2126	8JD 905 307-001	2756	6EH 905 357-011	4445	3SL 905 415-031	6048
2RL 905 123-001	1600	6JB 905 308-001	2760	6EH 905 357-021	4446	3SL 905 415-041	6049
2RL 905 124-001	1601	6EG 905 310-001	2762	6FH 905 357-031	4447	6EK 905 424-001	4642
2RL 905 124-011	1602	6JF 905 311-001	2763	6EH 905 357-041	4448	6EK 905 424-011	4643
2RL 905 125-001	1603	6JB 905 313-001	2766	6EH 905 359-001	4451	6EK 905 424-021	4644
2RL 905 125-011	1604	8RW 905 323-001	2900	6EH 905 360-001	4452	8HG 905 430-001	8022

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SAP NO.	PART NO.						
9HD 905 434-001	8130	8KW 905 476-101	8247	8KW 905 504-001	8525	8JS 905 540-051	8795
9HD 905 436-001	8132	8KW 905 477-001	8261	8KW 905 504-011	8526	8JS 905 540-061	8796
9HD 905 437-001	8133	8KW 905 477-011	8262	8KW 905 504-021	8527	8KL 905 541-001	8800
9HD 905 438-001	8134	8KW 905 477-021	8263	8KW 905 504-031	8528	8KL 905 541-011	8801
9HD 905 439-001	8135	8PE 905 478-001	8270	8KW 905 508-001	8530	8KL 905 541-021	8802
9HD 905 440-001	8136	8PE 905 478-011	8271	8KW 905 508-011	8531	8KL 905 541-031	8803
9HD 905 441-001	8137	8PE 905 478-021	8272	8KW 905 508-021	8532	8KL 905 541-041	8804
9HD 905 442-001	8138	8PE 905 479-001	8273	8KW 905 509-001	8536	8KL 905 541-051	8805
9HD 905 443-001	8139	8PE 905 479-021	8274	8KW 905 509-011	8537	8KL 905 541-061	8806
9HD 905 444-001	8140	8PE 905 480-001	8275	8KW 905 510-001	8540	8KL 905 541-071	8807
9HD 905 445-001	8141	8PE 905 482-001	8277	8KW 905 510-011	8541	8KL 905 541-081	8808
9HD 905 450-001	8146	8PE 905 483-001	8278	8KW 905 510-021	8542	8KL 905 541-091	8810
9HD 905 451-001	8147	8KW 905 485-001	8280	8KW 905 510-031	8543	8KL 905 541-101	8811
9HD 905 452-001	8148	8KW 905 486-001	8281	8KW 905 510-041	8544	8KL 905 541-111	8812
9HD 905 457-001	8153	8KW 905 487-001	8282	8KW 905 510-051	8545	8KL 905 541-121	8813
9HD 905 457-011	8153SMOKE	8KW 905 488-001	8283	8KW 905 510-061	8546	8KL 905 541-131	8814
9HD 905 458-001	8155	8KW 905 489-001	8284	8KW 905 510-071	8547	8KL 905 541-141	8815
9HD 905 460-001	8160	9MJ 905 490-001	8320	8KW 905 510-081	8548	8KL 905 541-151	8816
8KW 905 461-001	8200	9MJ 905 490-011	8321	8KW 905 511-001	8549	8KL 905 541-161	8817
8KW 905 461-011	8201	9MJ 905 490-021	8322	8KW 905 511-011	8560	8KL 905 541-171	8818
8KW 905 461-021	8202	9MJ 905 490-031	8323	8KW 905 511-021	8561	8KL 905 541-181	8820
8KW 905 461-031	8203	8HL 905 491-031	8333UV	8KW 905 511-031	8562	8KL 905 541-191	8821
8KW 905 461-041	8204	8HL 905 491-051	8334UV	8KW 905 511-041	8563	8KL 905 541-201	8822
8KW 905 461-051	8205	8HL 905 491-071	8335UV	8KW 905 512-001	8570	8KL 905 541-211	8823
8KW 905 462-001	8206	8HL 905 491-091	8336UV	8KW 905 512-011	8571	8KL 905 541-221	8825
6EK 905 463-001	4646	8HL 905 491-101	8341	8KW 905 512-021	8572	8KL 905 541-231	8826
8KW 905 464-001	8207	8HL 905 491-111	8341UV	8KW 905 512-031	8573	8KL 905 541-241	8827
8KW 905 464-011	8208	8HL 905 491-121	8342	8KW 905 512-041	8574	8KL 905 541-251	8828
8KW 905 465-001	8209	8HL 905 491-131	8342UV	8KW 905 513-001	8575	8KL 905 542-001	8832
8KW 905 466-001	8210	8HL 905 491-141	8343	8KW 905 513-011	8576	8KL 905 542-011	8833
8KW 905 466-011	8211	8HL 905 491-151	8343UV	8KW 905 513-021	8577	8KL 905 543-001	8834
8KW 905 466-031	8212	8HL 905 491-161	8344	8KX 905 513-031	8578	8KL 905 544-001	8840
8KW 905 467-001	8213	8HL 905 491-171	8344UV	8KX 905 515-001	8579	8KL 905 544-011	8845
8KW 905 467-011	8214	8HL 905 491-181	8345	8KX 905 516-001	8580	8KL 905 546-001	8846
8KW 905 467-021	8215	8HL 905 491-191	8345UV	8JD 905 523-001	8719	8KL 905 546-011	8847
8KW 905 468-001	8216	8HL 905 491-202	8346	8JD 905 524-001	8720	8KL 905 546-021	8848
8KW 905 469-001	8218	8HL 905 491-211	8346UV	8JD 905 524-011	8721	8KL 905 546-031	8849
8KW 905 469-011	8219	9MJ 905 495-161	8379	8JD 905 524-021	8722	8KL 905 547-001	8850
8KW 905 470-001	8220	9MJ 905 495-171	8380	8JD 905 524-031	8724	8KL 905 547-011	8851
8KW 905 470-011	8221	8KW 905 496-001	8500	8JS 905 527-001	8771	9EL 905 566-001	9.1001.01
8KW 905 470-021	8222	8KW 905 496-011	8501	8JS 905 527-011	8771MINI	1N4 905 570-001	9.1108.01
8KW 905 470-031	8223	8KW 905 496-021	8502	8JS 905 528-001	8772	1ND 905 570-011	9.1109.01
8KW 905 471-001	8225	8KW 905 496-031	8503	8JS 905 528-011	8772MINI	9BG 905 574-001	9.1307.09
8KW 905 471-011	8226	8KW 905 496-041	8504	8JS 905 529-001	8773	9HV 905 580-001	9.1360.06
8KW 905 471-021	8227	8KW 905 496-051	8505	8JS 905 529-011	8773MINI	9HV 905 581-001	9.1360.08
8KW 905 471-031	8228	8KW 905 497-001	8506	8JS 905 531-001	8774	8KB 905 582-001	9.1365.05
8KW 905 472-001	8230	8KW 905 498-011	8507	8JS 905 531-011	8774MINI	9EL 905 601-001	9.1600.01
8KW 905 472-011	8232	8KW 905 498-021	8508	8JS 905 533-001	8775	9EV 905 602-001	9.1600.06
8KW 905 472-021	8231	8KW 905 498-031	8509	8JS 905 533-011	8775MINI	9HG 905 603-001	9.1600.07
8KW 905 474-001	8236	8KW 905 498-041	8510	8JS 905 534-001	8776	9EL 905 604-001	9.1601.01
8KW 905 475-001	8237	8KW 905 498-051	8511	8JS 905 534-011	8776MINI	9EL 905 604-011	9.1602.01
8KW 905 476-001	8240	8KW 905 498-061	8512	8JS 905 535-001	8777	9EL 905 604-021	9.1603.01
8KW 905 476-011	8242	8KW 905 499-001	8513	8JS 905 535-011	8777MINI	9EL 905 604-031	9.1604.01
8KW 905 476-021	8243	8KW 905 499-011	8514	8JS 905 536-001	8778	9MK 905 621-001	9.1800.53
8KW 905 476-031	8244	8KW 905 499-021	8515	8JS 905 537-001	8779	9XR 905 622-001	9.1800.91
8KW 905 476-041	8245	8KW 905 500-001	8518	8JS 905 537-011	8779MINI	9FF 905 623-001	9.1800.92
8KW 905 476-051	8246	8KW 905 500-011	8519	8JS 905 540-001	8790	9EY 905 624-001	9.1811.05
8KW 905 476-061	8241	8KW 905 501-001	8520	8JS 905 540-011	8791	9EL 905 626-001	9.1811A.01
8KW 905 476-071	8248	8KW 905 503-001	8521	8JS 905 540-021	8792	9EL 905 635-001	9.2006.01
8KW 905 476-081	8249	8KW 905 503-011	8522	8JS 905 540-031	8793	9EL 905 635-011	9.2006.02
8KW 905 476-091	8260	8KW 905 503-021	8523	8JS 905 540-041	8794	9EL 905 650-001	9.2142.01

SAP NO.	PART NO.	SAP NO.	PART NO.	SAP NO.	PART NO.	SAP NO.	PART NO.
9EL 905 651-001	9.2368.01	2RL 910 082-001	HM400AMAG	8KW 910 170-011	HMPSPRO12VPT	9EL 910 325-001	2.9800.09
8PD 905 666-001	9.7022.02	2RL 910 082-011	HM400BMAG	8KW 910 170-021	HMPS12VPT	9EL 910 325-011	2.9801.01
9EL 905 675-001	9.HM360LENS	2RL 910 082-021	HM400GMAG	8KW 910 170-241	HMPSPRO24VPT	9EL 910 325-021	2.9800.08
2RL 905 676-001	9.HM400LENS	2RL 910 082-031	HM400RMAG	9MK 910 171-011	HMPS75B	9EL 910 325-041	2.9800.091
8KW 905 683-031	9.HM4946	2RL 910 082-041	HM400WMAG	9MK 910 171-021	HMPS75G	2RL 910 326-001	2.9803.09
4LZ 905 728-061	3008	2AA 910 084-001	HM4612	9MK 910 171-041	HMPS75R	9EL 910 327-021	9.2140.01
6EH 905 818-001	9.1520.06	2AA 910 084-011	HM4618	9MK 910 171-051	HMPS75S	9EL 910 327-031	9.2141.01
9GD 905 850-001	9.2397.40	2AA 910 084-021	HM4624	9GH 910 181-001	HMWGA100	9EL 910 327-051	9.2388.01
9EL 905 853-001	9.2126.01	2AA 910 084-031	HM4630	9GH 910 181-011	HMWGA160	6EH 910 333-002	9.1524.06
1M4 905 905-001	1089	8XX 910 084-051	9.HM46FX	9GH 910 181-021	HMWGA220	9EL 910 336-100	9.2557.01
1G4 905 911-001	1078	8XX 910 084-061	9.HM46FXY	8KW 910 182-001	HMWPR001	9SL 910 337-001	4645
1K4 905 912-001	1094	9XX 910 084-071	9.HM46MP	8KW 910 182-011	HMWPR002	1FD 910 338-001	5633/100
9AB 905 931-001	9.1025.07	9KX 910 084-081	9.HM46MS	9MJ 910 188-001	8365	1H1 910 343-001	1524
5DV 905 934-001	9.1655.03	9MK 910 086-001	HM4400A-12V	9MJ 910 188-011	8375	2SE 910 349-001	2421
2BA 905 997-001	2141	9MK 910 086-011	HM4400B-12V	9MJ 910 188-021	8366	4AZ 910 353-001	3014
2ST 905 998-001	2388	9MK 910 086-021	HM4400G-12V	9MJ 910 188-031	8376	8GS 910 361-001	FL8
9DS 909 649-001	9.1513.01	9MK 910 086-031	HM4400R-12V	9MJ 910 188-041	8367	8GS 910 362-001	XN551
9DS 909 650-001	9.1512.01	9MK 910 086-241	HM4400A	9MJ 910 188-051	8377	8GS 910 364-001	XN602
8PE 910 002-021	8299	9MK 910 086-251	HM4400B	9MJ 910 188-061	8368	8GS 910 366-001	XN850
8PE 910 002-031	8279	9MK 910 086-261	HM4400G	9MJ 910 188-071	8378	8GS 910 367-001	C2455
9GD 910 012-061	2.6702.03	9MK 910 086-271	HM4400R	9MJ 910 188-081	8361	8GS 910 368-001	XN451
8JS 910 017-011	8732	2RL 910 087-001	HM450ADIR	9MJ 910 188-091	8371	8GS 910 369-001	XN000
8JS 910 017-021	8733	2RL 910 087-031	HM450AMAG	9MJ 910 188-111	8362	8GS 910 370-001	XN6750
8JS 910 017-031	8734	2RL 910 087-041	HM450BDIR	9MJ 910 188-121	8372	2XM 910 412-001	2XM910412001
8JS 910 017-041	8735	2RL 910 087-051	HM450BMAG	9MJ 910 188-131	8363	2XM 910 413-001	2XM910413001
8JS 910 017-051	8730	2RL 910 087-061	HM450GDIR	9MJ 910 188-141	8373	2XM 910 415-001	2XM910415001
8JS 910 017-061	8731	2RL 910 087-071	HM450GMAG	9MJ 910 188-151	8364	2XM 910 426-001	2XM910426001
8JS 910 017-071	8742	2RL 910 087-081	HM450RDIR	8JR 910 196-001	8349	2XM 910 426-011	2XM910426011
8JS 910 017-081	8743	2RL 910 087-091	HM450RMAG	8JR 910 196-011	8357	1GA 910 429-001	1GA910429001
8JS 910 017-091	8744	2RL 910 087-101	HM450WDIR	8JR 910 196-021	8350	1FE 910 434-001	1GE910434001
8JS 910 017-101	8745	2RL 910 087-111	HM450WMAG	8JR 910 196-031	8358	1GJ 910 435-001	1GJ910435001
8JS 910 017-111	8746	2RL 910 087-201	HM450ARDIR	8JR 910 196-041	8352	1GJ 910 436-001	1GJ910436001
9EL 910 021-012	2.9801.05	2RL 910 087-211	HM450GRDIR	8JR 910 196-051	8353	1GJ 910 437-001	1GJ910437001
9EL 910 028-051	9.2304.01	9EL 910 089-011	9.2042.01	8JR 910 196-061	8355	1GJ 910 440-001	1GJ910440001
8JA 910 032-001	4921	9EL 910 089-021	9.2044.01	8JR 910 196-071	8351	1GJ 910 442-001	1GJ910442001
8JA 910 032-002	4921BULK	9EL 910 089-031	9.2045.01	8JR 910 196-081	8356	8XS 910 446-001	8XS910446001
8JB 910 032-011	4920	9MK 910 095-001	HM4960FM	2AA 910 233-011	2718	1GJ 910 470-001	1GJ910470001
3SL 910 035-001	6015	2RL 910 097-001	HM500ADIR	2AA 910 233-021	2720	1GJ 910 471-001	1GJ910471001
9EL 910 052-001	1.6502.01	9MK 910 098-001	HM50AND	2AA 910 233-031	2717	1GJ 910 472-001	1GJ910472001
9EL 910 052-011	1.6502.012	8HG 910 108-001	HM70PR	2AA 910 233-041	2716	1GJ 910 473-001	1GJ910473001
9EL 910 052-021	1.6502.013	9MK 910 109-001	HM7592B	2AA 910 233-051	2719	8XS 910 496-001	8161
9EL 910 052-031	1.6502.014	9MK 910 109-011	HM7592Y	2AA 910 233-061	2718-24V	8XS 910 501-001	8162
1GA 910 057-001	HM1550CIG	9MK 910 109-101	HM7590R	2AA 910 233-071	2720-24V	2XM 910 528-011	2XM910528011
1GA 910 060-021	HM1590WB	9MK 910 109-111	HM7590Y	2AA 910 233-091	2717-24V	2XM 910 529-001	2XM910529001
9MK 910 063-001	HM175AND	9MK 910 109-201	HM7591S	2AA 910 233-101	2716-24V	2XM 910 529-011	2XM910529011
2RL 910 073-001	HM300ADIR	9MK 910 109-301	9.HM759RED	2AA 910 233-111	2719-24V	2XM 910 529-021	2XM910529021
2RL 910 075-001	HM300AMAG	9MK 910 109-311	9.HM759YEL	8KX 910 236-001	8854	2XM 910 529-031	2XM910529031
2RL 910 075-011	HM300BDIR	1GA 910 112-001	HM8158	8KA 910 236-011	8852	2XM 910 530-101	2XM910530101
2RL 910 075-021	HM300BMAG	8PE 910 118-011	HM8277	8KX 910 236-021	8853	2XM 910 530-201	2XM910530201
2RL 910 075-031	HM300GDIR	8KW 910 119-101	HM8292	9EL 910 272-013	9.2396.01	2XM 910 530-301	2XM910530301
2RL 910 075-041	HM300GMAG	9XX 910 121-101	HM8291	8HG 910 273-001	9.2053.07	2XM 910 601-001	2XM910601001
2RL 910 075-051	HM300RDIR	9MJ 910 147-001	HMAT85	9BG 910 274-001	9.2053.08	2XM 910 602-001	2XM910602001
2RL 910 075-061	HM300RMAG	8KW 910 168-001	HMPS12VCP	8PD 910 299-001	9.HM4993	9EL 910 616-001	2.2884.01
2RL 910 075-071	HM300WDIR	8KW 910 168-011	HMPSPRO12VCP	1GD 910 301-001	1516	9BG 910 659-491	9.2319.09
2RL 910 075-081	HM300WMAG	8KW 910 168-241	HMPS24VCP	2VA 910 304-001	2397	2BA 910 663-081	2143
9MK 910 077-001	HM350AND	8KW 910 168-251	HMPSPRO24VCP	2VA 910 304-002	2397BL	2ZR 910 663-091	2043
2RL 910 081-001	HM400ADIR	8KW 910 169-001	HMPS12VKIT	2VA 910 304-003	2397BULK	2TA 910 664-021	2319
2RL 910 081-011	HM400BDIR	8KW 910 169-011	HMPSPRO12VKIT	2BE 910 315-001	2082	9AB 912 420-511	1017
2RL 910 081-021	HM400GDIR	8KW 910 169-331	HMPSPRO24VKIT	2PF 910 315-041	2006	8RW 920 669-463	2929
2RL 910 081-031	HM400RDIR	8KW 910 169-341	HMPS24VPT	9EL 910 318-001	9.1719.01	4RD 933 332-042	3080
2RL 910 081-041	HM400WDIR	8KW 910 169-351	HMPS24VKIT			8KW 950 034-001	8235

SAP NO. / PART NO. CROSS REFERENCE

SAP NO.	PART NO.						
8KW 950 034-002	8535	1GA 958 060-011	1GA958060011	9NH 959 028-017	9NH959028017	9HD 959 065-018	9.2330.11
1H1 950 372-001	1084	1GA 958 060-111	1GA958060111	2TA 959 030-101	2317	9HD 959 065-038	9.2330.10
1N1 950 374-001	1086	1GA 958 060-201	1GA958060201	2TA 959 030-102	2317BL	9HD 959 065-048	9.2330.14
1H4 950 375-001	1087	1GA 958 060-401	1GA958060401	2VA 959 030-321	2416LED	9HD 959 065-058	9.2330.13
1H1 950 378-001	1091	1GA 958 060-501	1GA958060501	2VA 959 030-421	2422LED	9HD 959 065-068	9.2330.12
1H1 950 384-001	1098	1GA 958 060-601	1GA958060601	2BR 959 031-011	2138	9HD 959 065-078	9.2330.16
6JB 950 505-001	4008	9HD 958 421-141	9.2330.08	2BR 959 031-012	2138BL	2BA 959 070-011	2151
8HG 950 709-001	4437	8HG 958 455-001	8HG958455001	2XD 959 037-012	95903701	2BA 959 070-012	2151BL
3SL 950 751-011	6023	8HG 958 455-011	8HG958455011	2XD 959 037-112	95903711	2BA 959 070-027	2151BULK
8RB 950 766-001	2927	8HG 958 455-101	8HG958455101	2JA 959 037-202	95903720	2BA 959 070-201	2152BULK
8ET 950 833-001	7050	8HG 958 455-111	8HG958455111	2JA 959 037-212	95903721	2BA 959 070-251	2151-V
8HG 950 835-001	8027	8HG 958 455-201	8HG958455201	2JA 959 037-302	95903730	2BA 959 070-351	2151-H
8HG 950 836-001	8028	8HG 958 455-211	8HG958455211	2JA 959 037-312	95903731	2BA 959 070-352	2151-HBL
8HG 950 837-001	8029	8HG 958 455-301	8HG958455301	2JA 959 037-402	95903740	2ZR 959 070-501	1430-H
6JK 950 838-001	4009	8HG 958 456-001	8HG958456001	2JA 959 037-412	95903741	2ZR 959 070-502	1430-HBL
6EB 950 870-001	2767	8HG 958 456-101	8HG958456101	2JA 959 037-501	2JA959037501	2ZR 959 070-551	1430-V
8PD 950 881-021	9.7023.01	9BG 958 559-011	9.2422.09	2JA 959 037-511	2JA959037511	2XD 959 070-801	95907080
1G4 950 884-001	1096	9BG 958 559-017	9.2422.09BULK	2XD 959 037-612	95903761	2DA 959 071-591	5243
8JR 950 888-001	8347	2VA 958 562-001	2422	2XD 959 037-812	95903781	2JA 959 073-011	2641-12V
8JR 950 888-011	8348	9EL 958 564-021	9.2041.01	2XD 959 037-912	95903791	2JA 959 073-211	2641-24V
1G1 950 889-001	1082	9EL 958 564-031	9.2144.01	2SB 959 040-501	2332-H24	2XD 959 073-602	95907360
1VB 950 951-001	1025	9EL 958 564-201	9.2145PC.01	2SB 959 040-502	2332-H24BL	2XD 959 073-652	95907365
5DV 950 958-001	9.1637.03	9EL 958 564-211	9.2046PC.01	2SK 959 040-531	2424LED-H	2XD 959 073-702	95907370
2JA 950 959-001	2617	2BA 958 564-271	2145PC	2SK 959 040-541	2424LED-V	2XD 959 073-752	95907375
8JB 950 987-001	2741	9EM 958 565-001	9.2320.01	2SB 959 040-561	2320LED-H	2SB 959 074-001	2334-24V
8JA 950 988-001	2742	9EM 958 565-211	9.2321PC.01	2SB 959 040-701	2332-V24	2SB 959 074-501	2334
8JB 950 989-001	2744	9BG 958 568-021	9.2041.09	2SD 959 040-801	2426-H	2BA 959 075-001	2156-24V
8JA 950 990-001	2745	9BG 958 568-027	9.2041.09BULK	2SD 959 040-811	2427-H	2BA 959 075-501	2156
2KA 951 068-042	2553	2TA 958 606-001	2321	2SD 959 040-901	2426-V	2JA 959 076-501	2641HB-12V
8KA 951 191-001	9.1520.07	2TA 958 606-011	2321PC	2SK 959 040-911	2427-V	2JA 959 076-631	2641HB-24V
9EL 954 004-001	9.2143.01	2BA 958 607-001	2145	2BA 959 041-111	2144LED-H	9GD 959 155-107	9GD959155107
9EL 954 004-011	9.2043.01	2ZR 958 607-021	2046	2ZR 959 041-321	1446-H	9GD 959 155-507	9GD959155507
9EL 954 006-001	9.2319.01	2ZR 958 607-031	2046PC	2ZR 959 041-331	2041LED-H	9HD 959 182-007	9HD959182007
9EL 954 352-012	2.4602.02	9XX 958 608-041	9.2423.06	2ZR 959 041-361	1447R	9HD 959 182-017	9HD959182017
9EL 954 352-021	2.1879.03	9BG 958 615-011	9.2423.09	2ZR 959 041-371	1447L	9HD 959 182-027	9HD959182027
9EL 954 352-031	2.4602.021	2VA 958 616-021	2423	2ZR 959 041-411	1446-V	9HD 959 182-037	9HD959182037
9EM 954 602-003	9.2397.01	2VA 958 616-031	2424	2ZR 959 041-431	2041LED-V	9HD 959 183-107	9.2105CLR.10
9EM 954 637-001	9.2401.01	2SB 959 010-031	2390	2BA 959 041-501	2146-H24	9HD 959 183-117	9.2165.10
9DS 954 963-001	9.2859.02	2SB 959 010-037	2390BULK	2BA 959 041-502	2146-H24BL	9HD 959 183-127	9.2365.10
1F6 954 982-021	5623/100	2SB 959 010-041	2390BL	2BA 959 041-511	2146-HCS	2DA 959 190-001	5237
9FH 955 077-001	2.4602.07	2SD 959 010-202	2399	2BA 959 041-701	2146-V24	2DA 959 190-002	5238
1F4 956 011-021	5625/100	2SD 959 010-217	2399BULK	2BA 959 041-711	2146-VCS	2DA 959 192-001	5239
8GH 956 174-041	CB1265	2SD 959 010-231	2399BL	2SK 959 041-811	2428-H	9AB 959 505-012	95950501
8HG 956 331-001	9.1308.08	2ZR 959 010-511	1490	2SK 959 041-911	2428-V	9AB 959 505-022	95950502
9EL 956 387-001	2.2705.01	2ZR 959 010-521	1490BL	2SD 959 050-001	2379	9AB 959 505-203	95950520
9EL 956 387-011	2.6111.01	2VB 959 010-811	2399-TP	2SD 959 050-092	2379BL	9AB 959 505-503	95950550
9EL 956 387-021	2.2703.01	2BA 959 011-003	2130BULK	2SD 959 050-097	2379OEBULK	9AB 959 505-521	95950552
9EL 956 387-031	2.2885.01	2BA 959 011-011	2130	2SD 959 050-412	2379-GMD	9AB 959 505-563	95950556
9EL 956 388-001	2.6856.01	2BA 959 011-031	2130BL	2SD 959 050-421	2379-CS	2XT 959 510-012	95951001
9EL 956 388-011	2.2459.01	2BA 959 011-102	2107CLR	2VB 959 050-841	2379-TP	2XT 959 510-062	95951006
9EL 956 388-021	2.6830.01	2BA 959 011-112	2107	9NH 959 059-008	9.2330.17	2XT 959 510-152	95951015
8HG 956 399-001	9.1300.08	2BA 959 011-113	2107BULK	2SB 959 060-001	2330	2XT 959 510-252	95951025
4AZ 957 224-001	3015	2BA 959 011-115	2107CLRBLK	2SB 959 060-002	2330BL	2XT 959 510-312	95951031
8HG 958 000-011	8HG958000011	2XD 959 011-402	95901140	2TA 959 060-011	2330BULK	2XT 959 510-332	95951033
8HG 958 000-021	8HG958000021	2XD 959 011-452	95901145	2SB 959 060-211	2331BULK	2XT 959 510-402	95951040
9GD 958 028-001	9GD958028001	2XD 959 011-602	95901160	2SB 959 060-251	2330-V	2XT 959 510-512	95951051
1FJ 958 040-021	1395	2XD 959 011-652	95901165	2SB 959 060-351	2330-H	2XT 959 510-532	95951053
1FJ 958 040-061	1396	2SB 959 020-001	2366-24V	2SB 959 060-352	2330-HBL	2XT 959 510-652	95951065
1GJ 958 040-501	1GJ958040501	2BA 959 021-001	2133-24V	2XD 959 060-501	95906050	2XT 959 510-712	95951071
1GJ 958 040-551	1GJ958040551	9HD 959 027-007	9HD959027007	2XD 959 060-801	95906080	2XT 959 510-732	95951073
1GJ 958 040-601	1GJ958040601	9HD 959 027-017	9HD959027017	9HD 959 065-008	9.2330.15	2XT 959 510-802	95951080

SAP NO.	PART NO.	SAP NO.	PART NO.	SAP NO.	PART NO.	SAP NO.	PART NO.
2XT 959 510-952	95951095	2PS 959 660-587	20530EBULK	2BA 959 932-042	2136LED-CS	2XT 980 508-411	98050841
9GD 959 515-127	9GD959515127	2PS 959 660-691	2053CHROME	2BA 959 932-051	2105CLR-CS	2XT 980 508-611	98050861
9GD 959 515-207	9GD959515207	2XT 959 680-641	95968060	2BA 959 932-052	2105-CS	8RA 980 565-102	2934-H
9GD 959 517-007	9GD959517007	2XT 959 680-761	95968070	2BA 959 932-072	2135LEDCLR-CS	8RA 980 565-502	2934-V
2TM 959 560-101	2307GMD	2XT 959 680-861	95968080	2BA 959 932-082	2136LEDCLR-CS	1GA 980 573-001	98057300
2TM 959 560-117	2307GMDBULK	2XT 959 680-941	95968090	2BE 959 932-152	2131-CS	1GA 980 573-101	98057310
2BA 959 560-431	2307	9AB 959 685-002	95968500	2BE 959 932-162	2132-CS	1GA 980 573-301	98057330
2TM 959 560-517	2307BULK	9AB 959 685-022	95968502	2BA 959 932-201	2105	2XT 980 580-011	98058001
9FH 959 561-701	9.2041.08	9AB 959 685-062	95968506	2BA 959 932-211	2105CLR	2XT 980 580-211	98058021
9FH 959 561-801	9.2320.08	2BM 959 700-011	2031	2BA 959 932-272	2159	2XT 980 580-511	98058051
9BG 959 565-002	9.2053.09	2BM 959 700-012	2031BL	2BA 959 932-301	2128LED	2XT 980 580-711	98058071
8HG 959 565-018	9.2053.11BULK	2JA 959 700-112	95970010	2BA 959 932-311	2135LED	2XT 980 581-011	98058101
8HG 959 565-038	9.2053.10BULK	2JA 959 700-121	2JA959700121	2BA 959 932-321	2136LED	2XT 980 581-211	98058121
9BG 959 565-048	9.2053.14BULK	2PS 959 700-201	2033	2BA 959 932-351	2128LEDCLR	2XT 980 581-511	98058151
8HG 959 565-058	9.2053.13BULK	2PS 959 700-212	2033BL	2BA 959 932-361	2135LEDCLR	2XT 980 581-711	98058171
8HG 959 565-068	9.2053.12BULK	2BA 959 700-301	2309	2BA 959 932-371	2136LEDCLR	2XT 980 582-011	98058201
9BG 959 565-078	9.2053.15BULK	2JA 959 700-711	2JA959700711	2BA 959 932-501	2165	2XT 980 582-211	98058221
9BG 959 565-308	9.2053.08BULK	8JA 959 736-801	4963-P	2BA 959 932-512	2165-CS	2XT 980 582-411	98058241
9BG 959 565-408	9.2053.20BULK	8JA 959 736-811	4960-P	2BA 959 932-532	2167-CS	2XT 980 583-011	98058301
2PF 959 570-101	2051GMD	8KW 959 764-811	9.HM4960.01	2BA 959 932-542	2159-CS	2XT 980 583-211	98058321
2PF 959 570-104	2051GMDBULK	8KW 959 764-831	9.HM4960.02	2BA 959 932-711	2167	2XT 980 583-411	98058341
2PF 959 570-301	2051	8KW 959 764-851	9.HM4960.03	2JA 959 950-011	2JA959950011	9AB 980 585-012	98058501
2PF 959 570-304	2051BULK	8KW 959 764-871	9.HM4960.04	2JA 959 950-021	2JA959950021	9AB 980 585-022	98058502
2PF 959 570-491	2054	8KW 959 772-821	HM4960	2JA 959 950-551	2JA959950551	9AB 980 585-032	98058503
2PF 959 570-501	2054GMD	8KW 959 772-851	HM4961	2JA 959 950-561	2JA959950561	9AB 980 585-202	98058520
2PF 959 570-517	2054GMDBULK	8KW 959 772-861	HM4962	8HG 959 952-002	8HG959952002	9AB 980 585-312	98058531
2PF 959 570-557	2054BULK	8KW 959 773-847	HM4961FM	8HG 959 952-012	8HG959952012	2XT 980 587-011	98058701
2PF 959 590-341	2056	8KW 959 774-817	HM4963FM	8HG 959 993-103	95999310	2XT 980 587-211	98058721
2PF 959 590-357	2056BULK	8KW 959 774-821	HM4963	8HG 959 993-113	95999311	2XT 980 587-411	98058741
2PF 959 590-491	2055	8KW 959 774-831	HM4964	8HG 959 993-543	95999354	2XT 980 587-611	98058761
2PF 959 590-547	2055BULK	8KW 959 774-841	HM4965	8HG 959 993-603	95999360	2XT 980 588-011	98058801
2JA 959 596-061	95959606	9GD 959 777-811	9.HM4960.05	4LZ 961 553-124	3026	2XT 980 588-211	98058821
2JA 959 596-161	95959616	2ZR 959 820-001	1433	4LZ 961 553-133	3027	2XT 980 588-411	98058841
2JA 959 599-081	95959908	2ZR 959 820-002	1433BL	4LZ 961 553-233	3028	2XT 980 588-611	98058861
2JA 959 599-181	95959918	2JA 959 820-302	95982030	2PS 963 639-002	2047	2JA 980 596-041	98059604
2BA 959 610-441	2308	2JA 959 820-402	95982040	2PS 963 639-012	2048	2JA 980 596-141	98059614
2BA 959 610-457	2308BULK	2JA 959 820-502	95982050	2TM 963 639-301	2305	2JA 980 597-041	98059704
2XT 959 630-252	95963025	2JA 959 820-702	95982070	2TM 963 639-311	2306	2JA 980 597-141	98059714
2XT 959 630-462	95963046	2SB 959 821-001	2366	2PT 964 296-072	1000	2SD 980 602-001	2378DT
2XT 959 630-552	95963055	2SB 959 821-002	2366BL	4RA 965 400-002	3078	2SD 980 602-201	2378DTCS
2KA 959 640-021	2559	2JA 959 821-502	95982150	4RA 965 400-032	3079	2SK 980 602-511	2383-DT24VCS
2KA 959 640-057	2559BULK	2BA 959 822-001	2133	2XT 980 500-011	98050001	2SK 980 603-501	2380
2KA 959 640-067	25590EBULK	2BA 959 822-002	2133BL	2XT 980 500-211	98050021	2SK 980 603-502	2380BL
2KA 959 640-101	9.2559.01	2JA 959 822-502	95982250	2XT 980 500-511	98050051	2SK 980 603-507	2380BULK
2KA 959 640-131	9.2559.02	2BA 959 822-641	2133-CS	2XT 980 500-711	98050071	2SK 980 603-551	2380GMD
2KA 959 640-301	2559-1	8KW 959 882-118	9.HM4980.04	2XT 980 501-011	98050101	2JA 980 604-002	98060400
2KA 959 640-327	2559-1BULK	8KW 959 882-418	9.HM4980.03	2XT 980 501-211	98050121	2JA 980 604-032	98060403
2KA 959 640-381	2559-1DT	8KW 959 882-518	9.HM4980.02	2XT 980 501-511	98050151	2JA 980 604-202	98060420
8HG 959 647-001	8HG959647001	8KW 959 882-818	9.HM4980.01	2XT 980 501-711	98050171	2JA 980 604-212	98060421
8HG 959 647-021	9.2559.08	9GD 959 883-008	9.HM4980.06	2XT 980 502-011	98050201	2JA 980 604-501	98060450
8HG 959 647-031	9.2559.09	9GD 959 883-208	9.HM4980.05	2XT 980 502-211	98050221	2BA 980 607-001	2151-HCS
8HG 959 647-041	9.2559.19	9GD 959 883-308	9.HM4980.07	2XT 980 502-411	98050241	2BA 980 607-501	2151-VCS
2XS 959 650-011	2057	9GD 959 883-508	9.HM4980.09	2XT 980 503-011	98050301	2JA 980 608-112	98060801
2XS 959 650-027	2057BULK	2ZR 959 930-001	1465	2XT 980 503-211	98050321	2PT 980 608-502	1003
2BP 959 660-301	2026	2ZR 959 930-111	1467	2XT 980 503-411	98050341	2SD 980 613-001	2378
2PS 959 660-477	2053GMDBULK	2ZR 959 930-121	1459	2XT 980 507-011	98050701	2SD 980 613-002	2378BL
2PS 959 660-481	2053GMD	2SB 959 931-001	2365	2XT 980 507-211	98050721	2SD 980 613-007	2378BULK
2PS 959 660-487	2053GMD0EBULK	2SB 959 931-111	2367	2XT 980 507-411	98050741	2SD 980 613-201	2378-CS
2PS 959 660-501	2026BULK	2SB 959 931-121	2359	2XT 980 507-611	98050761	2SK 980 613-511	2383-24VCS
2PS 959 660-502	2053BULK	2BA 959 932-012	2106-CS	2XT 980 508-011	98050801	2VB 980 613-801	2378-TP
2PS 959 660-581	2053	2BA 959 932-032	2135LED-CS	2XT 980 508-211	98050821	2SK 980 615-011	2380DT

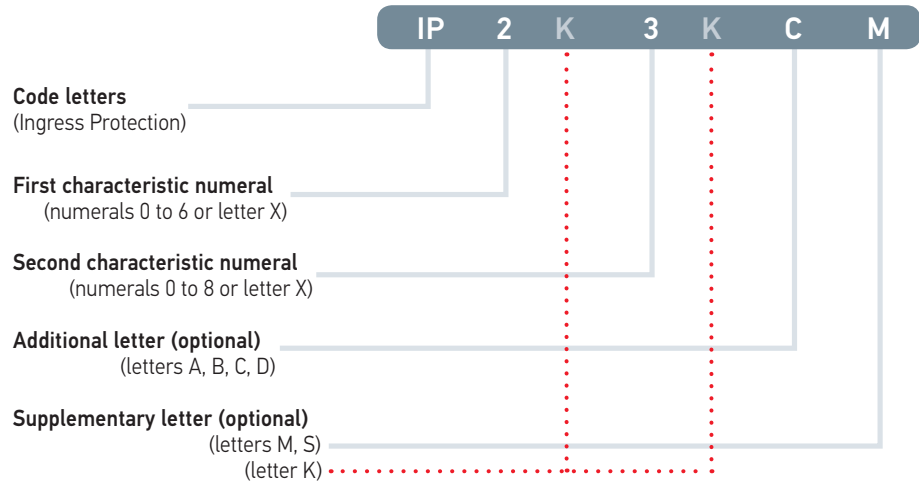
SAP NO. / PART NO. CROSS REFERENCE

SAP NO.	PART NO.	SAP NO.	PART NO.	SAP NO.	PART NO.	SAP NO.	PART NO.
2SK 980 615-051	2380DTGMD	9HD 980 712-057	9.2378.13BULK	2JA 980 828-002	2JA980828002	2PT 980 880-801	5619
2PS 980 660-001	2058	9HD 980 712-067	9.2378.12BULK	2JA 980 828-012	2JA980828012	2PT 980 880-851	5619-24V
2XS 980 660-018	2058BULK	9HD 980 712-077	9.2378.16BULK	2JA 980 828-102	2JA980828102	2PT 980 880-901	5619V
2PS 980 660-021	2058P	9HD 980 712-801	9.2378.09	2JA 980 828-112	2JA980828112	2PT 980 880-951	5619V-24V
2XS 980 660-038	2058PBULK	9HD 980 712-821	9.2377.09	4RD 980 830-001	3099	2JA 980 881-021	2652
2BP 980 660-101	2027	8HG 980 719-001	98071900	9SL 980 832-001	4641	2JA 980 881-131	2652-24V
2BP 980 660-118	2027BULK	8HG 980 719-011	98071901	9SL 980 833-001	4722	2JA 980 881-221	2652WW
2BP 980 660-121	2027P	2VA 980 720-002	2394	9SL 980 834-001	4723	2JA 980 881-321	2652WW-24V
2BP 980 660-138	2027PBULK	2VA 980 720-008	2394BULK	6EN 980 835-001	4724	2JA 980 881-402	2JA980881402
2PF 980 660-201	2061	2VA 980 720-021	2394-6M	8PE 980 837-001	HM8275	2JA 980 881-502	2JA980881502
2PF 980 660-218	2061BULK	2VA 980 720-027	2394-6MBULK	8PE 980 838-001	HM8298	2JA 980 881-602	2JA980881602
2PF 980 660-221	2061P	2SD 980 720-037	2394-9MBULK	2PT 980 850-841	5631	2JA 980 881-702	2JA980881702
2PF 980 660-238	2061PBULK	2VA 980 720-201	2394-12V	2PT 980 850-842	5631BL	9HD 980 885-007	9.2652.09
2PF 980 660-301	2062	2VB 980 720-502	2395	2PT 980 850-871	5631-24V	9HD 980 885-017	9.1009.09
2PF 980 660-318	2062BULK	2SE 980 720-508	2395BULK	2PF 980 855-011	2059	9HD 980 885-107	9.1009.10
2PF 980 660-321	2062P	2VB 980 720-511	2395-6M	2PF 980 855-017	2059OEBULK	2SB 980 887-001	2318
2PF 980 660-338	2062PBULK	2SE 980 720-513	2395-6MBULK	2PF 980 855-021	2059S	2SB 980 887-002	2318BL
2XS 980 660-401	2311	2SE 980 720-527	2395-9MBULK	2PF 980 855-037	2059BULK	2SB 980 887-201	2318-24V
2XS 980 660-418	2311BULK	2VB 980 720-601	2395-12V	2PF 980 855-047	2059SBULK	2SB 980 887-202	2318-24VBL
2XS 980 660-421	2311P	2VB 980 720-811	2395-TP	2XT 980 855-101	98085510	2DA 980 887-301	5245
2XS 980 660-438	2311PBULK	2VB 980 720-851	2395-TP12V	2XT 980 855-151	98085515	2DA 980 887-401	5245-24V
2PT 980 670-002	1004	2VB 980 720-861	2395-TP9M12V	2PF 980 855-201	2060	2BA 980 888-001	2168
2JA 980 670-202	98067020	8HG 980 726-001	9.2394.08	2PF 980 855-211	2060S	2BA 980 888-022	2168BL
2JA 980 670-302	98067030	8HG 980 727-002	9.2394.09	2PF 980 855-227	2060BULK	2BA 980 888-201	2168-24V
1GA 980 670-382	98067038	1GD 980 740-021	98074002	2PF 980 855-237	2060SBULK	2BA 980 888-222	2168-24VBL
1GA 980 670-622	98067062	1GD 980 740-221	98074022	2XT 980 855-251	98085525	2BA 980 888-301	2109
2PT 980 670-812	56170E	1GA 980 740-251	98074025	2XA 980 855-301	2310	2BA 980 888-322	2109BL
2PT 980 670-831	5617	1GD 980 740-321	98074032	2XA 980 855-307	2310OEBULK	2BA 980 888-401	2109-24V
2PT 980 670-872	56170ESS	1GA 980 740-511	98074051	2XA 980 855-311	2310S	2BA 980 888-422	2109-24VBL
2PT 980 680-002	1005	1GA 980 740-601	98074060	2XA 980 855-327	2310BULK	2BA 980 888-501	2109V
2PT 980 680-111	1008	2LT 980 747-001	2LT980747001	2XA 980 855-337	2310SBULK	2BA 980 888-522	2109VBL
2PT 980 680-511	1005-24V	2LT 980 747-011	2LT980747011	2XT 980 855-351	98085535	2BA 980 888-601	2109V-24V
2PT 980 680-611	1008-24V	2LT 980 747-101	2LT980747101	2XT 980 855-401	98085540	2BA 980 888-622	2109V-24VBL
2PT 980 680-811	5618	2LT 980 747-111	2LT980747111	2XT 980 855-501	98085550	2ZR 980 889-001	1468
2PT 980 680-852	5618-24V	2TA 980 760-011	2361	9HD 980 858-007	9.2310.09BULK	2ZR 980 889-022	1468BL
2JA 980 681-012	2651	2TA 980 760-012	2361BL	9HD 980 858-017	9.2310.11BULK	2ZR 980 889-101	1468V
2JA 980 681-112	2651WW	2VA 980 760-801	2429	9HD 980 858-027	9.2310.16BULK	2ZR 980 889-201	1468-24V
2JA 980 681-512	2651-24V	2VA 980 760-811	2430	9HD 980 858-037	9.2310.10BULK	2ZR 980 889-222	1468-24VBL
2JA 980 681-612	2651WW-24V	2VP 980 760-821	2431	9HD 980 858-047	9.2310.14BULK	2ZR 980 889-301	1468V-24V
2BE 980 690-111	2108-GMD24V	2BR 980 761-011	2161	9HD 980 858-057	9.2310.13BULK	2XA 980 910-042	98091004
2PT 980 690-401	1007-24V	2BR 980 761-012	2161BL	9HD 980 858-067	9.2310.12BULK	2XA 980 910-242	98091024
2PT 980 690-502	1006	2BR 980 761-021	2161-CS	9HD 980 858-077	9.2310.15BULK	2XA 980 910-442	98091044
2BE 980 691-111	2108-GMD	2VA 980 761-801	2429-CS	2PT 980 860-841	5630	2XA 980 910-642	98091064
9GD 980 696-002	98069600	2VA 980 761-811	2430-CS	2PT 980 860-842	5630BL	2XA 980 910-742	98091074
9GD 980 696-201	98069620	2VP 980 761-821	2431-CS	2PT 980 860-871	5630-24V	2XD 980 911-002	98091100
9GD 980 696-401	98069640	2ZR 980 762-011	1461	2PT 980 860-872	5630-24VBL	2XD 980 911-202	98091120
9GD 980 696-601	98069660	2ZR 980 762-012	1461BL	9GD 980 867-007	9GD980867007	2XD 980 911-402	98091140
2JA 980 704-001	2JA980704001	9HD 980 767-801	9.2361.09	9GD 980 867-507	9GD980867507	2XD 980 911-602	98091160
2JA 980 704-021	2JA980704021	9HD 980 768-801	9.2361.08	2PS 980 868-041	2083	2XD 980 911-702	98091170
2JA 980 704-501	2JA980704501	5DF 980 816-041	9.5630.03	2PS 980 868-047	2083OEBULK	2JA 980 940-001	2JA980940001
2JA 980 704-521	2JA980704521	5DF 980 816-061	9.5636.03	2PS 980 868-057	2083BULK	2JA 980 940-011	2JA980940011
2VA 980 710-011	2377	5DF 980 816-541	9.5630.04	2PS 980 868-061	2083S	2JA 980 940-101	2JA980940101
2VA 980 710-012	2377BL	5DF 980 816-561	9.5636.04	2PS 980 868-077	2083SBULK	2JA 980 940-111	2JA980940111
2VA 980 710-017	2377BULK	5DF 980 818-001	3091	2KA 980 869-001	2560	2JA 980 940-201	2JA980940201
2VA 980 710-811	2377-TP	5DF 980 818-007	3091BULK	2KA 980 869-027	2560BULK	2JA 980 940-211	2JA980940211
9HD 980 712-001	9.2378.08	5DF 980 818-011	3090	2JA 980 879-001	98087900	2JA 980 940-301	2JA980940301
9HD 980 712-007	9.2378.15BULK	5DF 980 818-017	3090BULK	2JA 980 879-101	98087910	2JA 980 940-311	2JA980940311
9HD 980 712-017	9.2378.11BULK	2JA 980 820-002	2JA980820002	2PT 980 880-001	1009	1GD 980 950-031	98095003
9HD 980 712-021	9.2377.08	2JA 980 820-012	2JA980820012	2PT 980 880-101	1009-24V	1GD 980 950-141	98095014
9HD 980 712-037	9.2378.10BULK	2JA 980 820-102	2JA980820102	2PT 980 880-401	1009V	1GD 980 950-231	98095023
9HD 980 712-047	9.2378.14BULK	2JA 980 820-112	2JA980820112	2PT 980 880-501	1009V-24V	1GD 980 950-331	98095033

SAP NO.	PART NO.	SAP NO.	PART NO.
2PT 980 970-001	1013	1GA 996 188-001	1551LED
2PT 980 970-501	1013-24V	1GA 996 188-011	1551LEDHD
2PT 980 970-801	5636	1GA 996 188-021	1551LEDPMPMA
2PT 980 970-802	5636BL	1GA 996 189-002	1553LED
2PT 980 970-851	5636-24V	1GA 996 189-012	1553LEDDT
2VP 980 980-001	2391	1GA 996 192-001	1555LED
2VD 980 980-011	2392L	1GA 996 192-011	1555LEDLR
2VD 980 980-021	2392R	1GA 996 192-021	1555LEDHD
2PS 980 990-001	2073	1G0 996 263-031	1564LED
2PS 980 990-007	2073BULK	1G0 996 263-051	1564LEDLR
2BP 980 990-101	2076	1GA 996 283-001	1563LED
2BP 980 990-107	2076BULK	1GA 996 283-011	1563LEDLR
2PF 980 990-201	2074	1GA 996 288-001	1557LEDLR
2PF 980 990-207	2074BULK	1GA 996 288-011	1557LED
2PF 980 990-401	2071	1GA 996 288-021	1557LEDHDLR
2PF 980 990-407	2071BULK	1GA 996 288-031	1557LEDHD
2XA 980 990-601	2312	1GA 996 388-001	1561LED-12V
2XA 980 990-607	2312BULK	1GA 996 388-011	1561LED-24V
9BG 980 996-001	9.2073.09	1GA 996 388-021	1561LEDLR-12V
9GD 981 662-001	4936	1GA 996 388-031	1561LEDLR-24V
8KW 981 698-002	HMPSPCAP	1G0 996 476-001	1567LED
8JS 981 757-001	8738	1G0 996 476-011	1567LEDLR
8JS 981 758-001	8739	1G0 996 476-031	1567LEDEW
8JS 981 759-001	8740	1GB 996.486-001	1559LED
8JS 981 760-001	8741	1GB 996.486-011	1559LEDLR
8JS 981 761-001	8736	1GA 96.761-001	1558LED
8JS 981 762-001	8737	1GA 996.761-011	1558LEDLR
8HG 990 263-001	HM70PI	1GA 997 506-022	1533LR
8KB 990 299-001	9.6008.06	2ZR 997 506-402	1408
8KB 990 299-011	9.1551LED.06	6EF 998 004-001	9.2863.06
1GM 990 303-041	9.1539.01	8JB 998 006-001	9.2862.03
8HG 990 379-001	9.HM70BR	1H3 998 502-001	2862
8HG 992 378-001	9.1533.08	1H3 998 502-021	2863
9DF 992 663-001	9.1500.01	1GA 998 517-001	2833
8GM 993 406-002	L1210	1GA 998 517-031	2834
4RA 993 791-091	3082	1GA 998 518-001	2860
9DS 993 880-001	9.2862.01	8HG 998 519-001	9.2862.08
9GH 993 984-001	9.6008.05	1GA 998 524-001	9.1531.01
1G0 995 050-001	1560LED	1GA 998 525-001	9.1533.01
1G0 995 050-021	1560LEDLR	1GA 998 525-051	9.1533.03
1GA 995 506-001	1562LED	9DF 998 525-081	9.1408.01
1GA 995 506-011	1562LEDP	9SL 998 540-002	4640
1GA 995 506-031	1562LEDLR	6EK 998 540-062	4720
1GA 995 506-051	1562LEDWB	6EB 998 540-202	4721
1GA 995 506-101	1562LEDPB	1GB 998 541-001	2830
1GA 996 082-001	2860-BLACK	2JA 998 565-031	2645
1L5 996 124-201	1001		
1GM 996 134-172	1539		
1GM 996 134-201	2835		
1GM 996 134-211	2835-24V		
1GM 996 136-192	1539LED		
3SL 996 139-002	6018		
3SL 996 139-102	6016		
3SL 996 139-112	6017		
5HE 996 152-042	3087-12V		
5HE 996 152-131	3086-12V		
5HE 996 152-141	3086-24V		
5HE 996 152-171	3087-24V		
1G0 996 176-001	1547		
1G0 996 176-111	1547P		
1G0 996 176-721	1547LED		

Ingress Protection (IP) Rating

Construction and meaning of the IP Rating



Ingress Protection: Overview of the Elements of the IP Rating

Element	Numeral / Letter	Protection of electrical equipment	Protection of persons
First characteristic numeral / supplementary letter	0	not protected	not protected
	1	with size $\geq 50\text{mm}$	with back of hand
	2	with size $\geq 12.5\text{mm}$	with finger
	3	with size $\geq 2.5\text{mm}$	with tool
	4	with size $\geq 1\text{mm}$	with wire
	5K	dust-protected	with wire
	6K	dust-tight	with wire
Second characteristic numeral / supplementary letter	0	Not protected	
	1	Vertical dripping	
	2	Dripping (inclined 15°)	
	3	Spraying	
	4	Splashing	
	4K	Same with increased pressure	
	5	Jetting	
	6	Powerful jetting	
	6K	Same at increased pressure	
	7	Temporary immersion	
8	Continuous immersion		
9K	High-pressure/steam jet cleaning		
Additional letter (optional)	A	Meaning for the protection of electrical equipment	Protection against access to hazardous parts (unless described by first characteristic numeral): with back of hand with finger with tool with wire
	B		
	C		
	D		
Supplementary letter (optional)	M	Movement of moving parts during water test	
	S	Standstill of moving parts during water test	
	K	Specifically for the electrical equipment in road vehicles	