



ACOUSTIC SIGNAL UNITS
2018-2019





HELLA GROUP

HELLA GmbH & Co. KGaA, LIPPSTADT

HELLA is a global, family-owned company, listed on the stock exchange, with more than 40,000 employees at over 125 locations in some 35 countries. The HELLA Group develops and manufactures products for lighting technology and electronics for the automotive industry and also has one

of the largest retail organizations for automotive parts, accessories, diagnostics, and services within Europe. With more than 7,000 people working in research and development, HELLA is one of the most important innovation drivers on the market. Furthermore, the HELLA Group is one of the top 40 automotive parts suppliers in the world.





DEAR PARTNERS AND CUSTOMERS



In this brochure, HELLA presents its complete range of Acoustic Signal Units. For HELLA safety is paramount, surely your customers will notice that our warning signals use the most modern acoustic technology. Integrating security, reliability and precision workmanship is a tradition that HELLA continues to do for more than 100 years.

COMPLIANCE WITH WORLDWIDE QUALITY STANDARDS



HELLA's packagings include an hologram to protect against counterfeiting. This new seal gives workshops, distributors and their customers the guarantee that they are using genuine HELLA parts."

ACOUSTIC SIGNAL UNITS



HELLA's horns, trumpet horns, and air trumpet horns are designed and manufactured with German precision technology. We work with world-class vehicle manufacturers so you can rest assured that your horns feature state-of-the-art and the best technologies.

HELLA quality isn't just seen, it's also heard: our specialized experience in developing horns and air trumpet horns complies with strict ECE and OEM requirements, both in applications for passenger cars and commercial vehicles.

Our manufacturing plant HELLA India Automotive is fully committed to research and development as well as displaying a strict adherence to quality manufacturing. Leveraging HELLA's worldwide central resources for vehicle electronics, HELLA enforces the principles of developing state-of-the-art products and ensures the delivery of world-class horns to our customers.



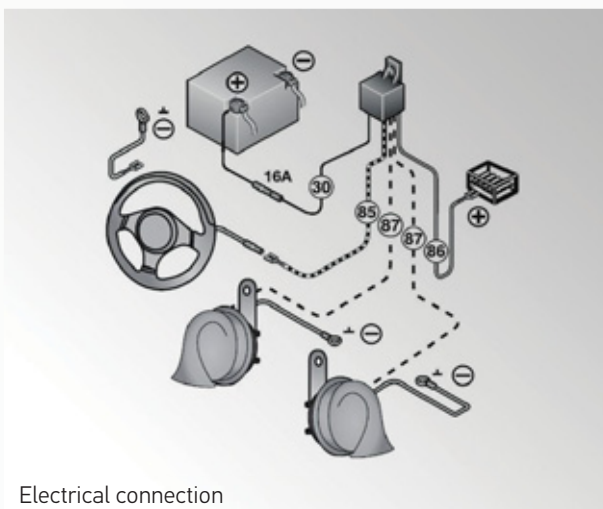
TYPICAL INSTALLATION INSTRUCTIONS

- 1) Before installation, ensure that the battery is disconnected from the vehicle wiring system.
- 2) Select a mounting location with enough space around the horns and other parts of the vehicle. The installation position must be protected against splash water.
- 3) Do NOT move, adjust, or change the bracket or nut. If you do, the electromechanical properties will be altered and cause a loss of performance.
- 4) Mount the horns/trumpets to a stable bracket.

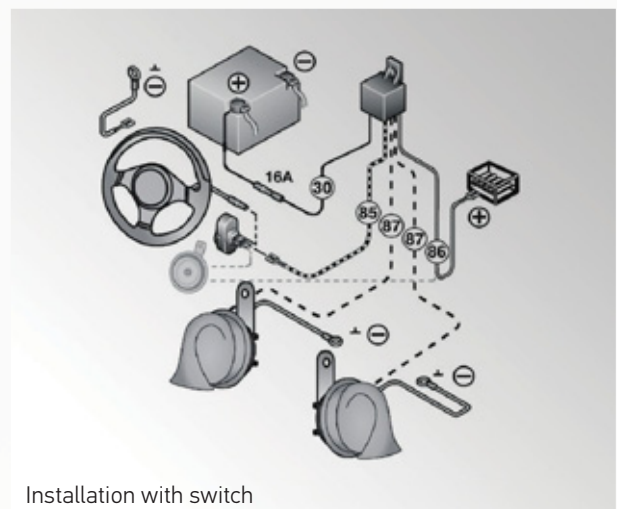
- 5) Use a cable with a suitable diameter for mounting the horn, keeping in mind the amount of power needed by the horn.

Connection example.

Connections may differ depending on the vehicle!



Electrical connection



Installation with switch

PRODUCT INTRODUCTION

TRUMPET HORN



1 Bracket

2 Terminals

3 Contacts

4 Solenoid

5 Seal

6 Diaphragm

7 Base plate

8 Solenoid



RECOMMENDATION FOR SELECTING A SIGNAL UNIT

The quality of horns and trumpet horns is not easy for people to gauge. HELLA has more than 100 years of experience in manufacturing high-quality acoustic devices and guarantee a pleasant and harmonic sound.

For various vehicle applications, HELLA provides professional recommendations on how to choose the right product. You can find details in the product overview.

HELLA recommends mounting a pair of horns to replace the vehicle's horn.



VOLUME

This is one of the key performance indicators for a horn's characteristics.

HELLA has a wide product range of horns and trumpet horns in the volume range of 108 dB(A) to 118dB(A).

PRODUCT INTRODUCTION

DISC HORN



- 1 Bracket
- 2 Terminals
- 3 Contacts
- 4 Solenoid

- 5 Seal
- 6 Simple horn shank
- 7 Diaphragm
- 8 Cover ring



FUNCTIONAL PRINCIPLE

Horns are powered by the battery current signal, which is commonly controlled by a voltage pulse sent from the steering wheel.

The current signal is directed to a relay, which transmits the entire control current, preventing voltage drops.

As the horn is powered by the electric current, it forms a magnetic field, which attracts a metal core (shank) together with a steel diaphragm. This attraction causes vibrations, which are transformed by varying resonances in order to obtain low or high tones.



NOMINAL VOLTAGE

→ 7 - 12V: for automotive vehicles, agricultural machinery, construction machinery, etc.

→ 7 - 24V: for commercial vehicles, buses, municipal vehicles, etc.

PRODUCT INTRODUCTION

AIR TRUMPET HORNS



AIR TRUMPET HORNS

EFFICIENT SOUND

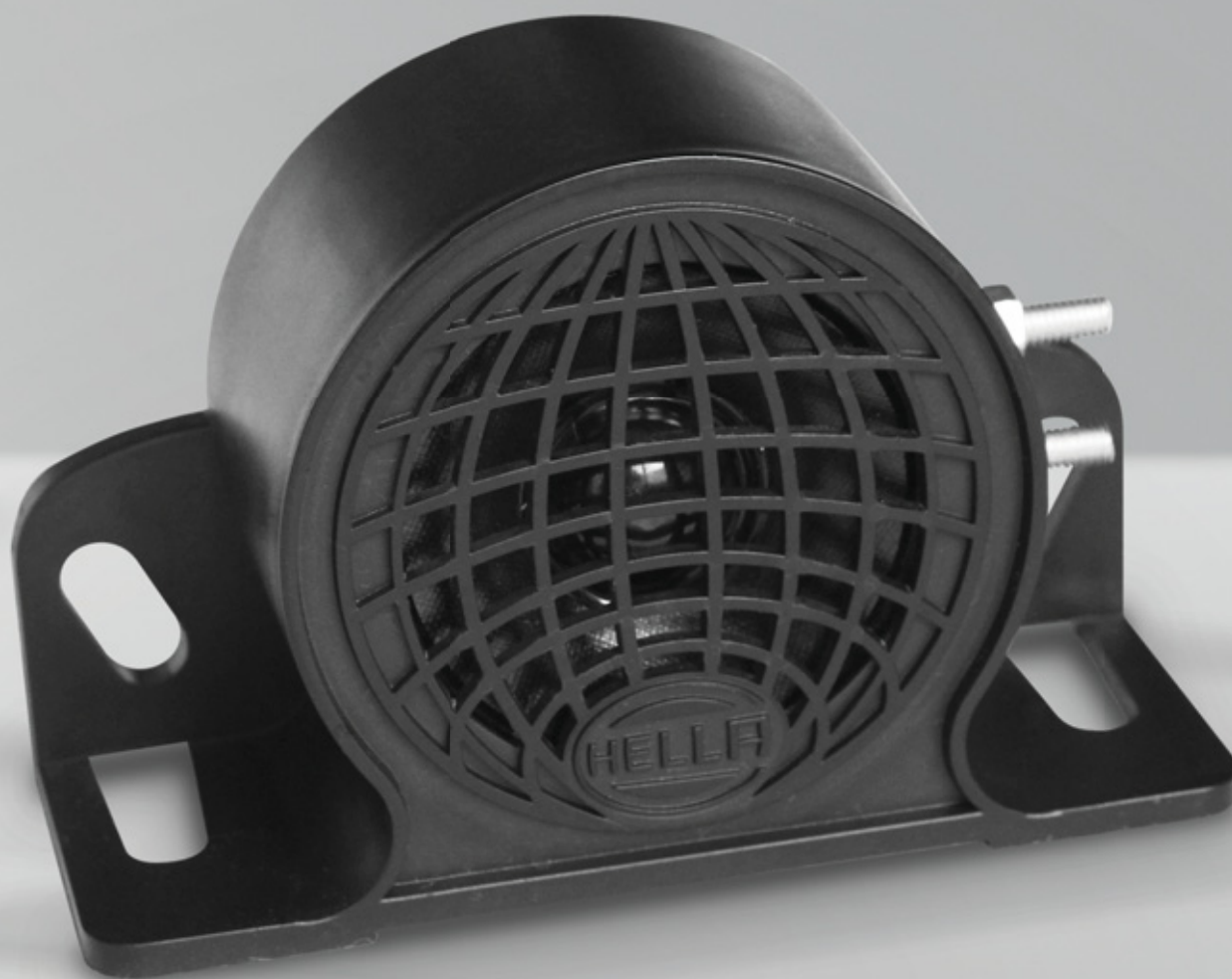
HELLA's air trumpet horns produce a loud, far-reaching sound. Ideal for vehicles which need to be heard in traffic.

HELLA's air trumpet horns are produced from durable materials, have a sharp sound, and include mounting materials. Their design is both striking and resistant to inclement weather.



PRODUCT INTRODUCTION

REVERSING AND WARNING ALARMS



REVERSING AND WARNING ALARM

SAFETY FIRST

In some countries, regulations require the installation of a reversing alarm when automotive vehicles have an obstructed view to the rear. The vehicle must have an audible reversing alarm that is louder than the surrounding noise level unless the vehicle is accompanied by an observer who signals when it is safe to reverse.

All bidirectional machinery, such as construction machinery, agricultural machinery, garbage trucks etc. must be equipped with a reversing alarm, which differs from surrounding noises and is triggered as required when the machinery is moving. The reversing alarm must always be fully operational. Many of the regulations require a sound level higher than 90 dB.



CONVERSION

HELLA B133 SUPER-TONE HORN



Depending on the application and conditions, you might find that your horn is not loud enough for safety purposes. In this case, it may be a good idea to install a louder horn so that a sufficient warning tone can be produced in dangerous situations. In order to demonstrate this kind of conversion and what you need to take into account, let's consider the example of the Audi TT/RS.

In most cases, the more powerful horns consume more (electrical) power, meaning that they cannot simply be installed in a vehicle without additional work. Only experienced personnel should therefore handle the conversion.



Prior to conversion, please check and/or ensure the following:

- Carefully read the assembly instructions enclosed with the product
- Find out the power consumption of super-tone horns using the technical data
- Based on this information, check the vehicle wiring and fusing of the originally installed horns to see if they can be used



NOTE!
Should the vehicle wiring or fusing prove to be insufficient, it is essential that they are altered to suit the new installation situation.



Remove the fuse for the "Horn" circuit from the fuse box in order to cut the power supply of the acoustic signaling units for the duration of the electric connection.

- Switch off the ignition
- Remove key from ignition
- Remove bumper cover at front



CONVERSION

HELLA B133 SUPER-TONE HORN



- Remove originally installed horns with bracket
- Disconnect electrical plug connections from the horns
- Install super-tone horns

NOTE!

Due to the size of the new super-tone horns, check the optimal assembly position. The housing body must have sufficient leeway for swinging into all directions and should be in contact with the adjacent body parts.



- Prepare electric connections for the new super-tone horns
- Connect electric connections to the super-tone horns, then plug in and fix wiring harness to the cable guides
- Insert fuse and conduct functional test

If the functional test is successful, the bumper cover can once again be mounted with all assembly parts, thus fully restoring the vehicle.

NOTE!

The housing body including retaining plate determine horn's tone. Changing the retaining plate on the super-tone horn can negatively impact the acoustic pattern.


















Detailed installation instructions for the Audi TT/RS and others for the Jeep Grand Cherokee can be found in the HELLA TECH WORLD.



PRODUCT OVERVIEW

Series	 Part No.	 Frequency	 Acoustic Intensity	 Voltage	 Energy consumption	 Diameter / Size	 Packaging / Content					
S70M 	◇ 012588011	380 / 480 Hz	108 dB (A)	12 V	2 x 16 W	7 cm 7 x 9.5 cm	Box - 2 items	■				
	◇ 012588061	480 Hz	108 dB (A)	12 V	1 x 16 W		Blister - 1 item	■				
S77 	◇ 011225802	350 / 420 Hz	111 dB (A)	12 V	2 x 42 W	7.7 cm 4.7 x 10.5 cm	Box - 2 items	■	■	■		
	◇ 011225881	350 / 420 Hz	111 dB (A)	12 V	2 x 42 W		Box - 2 items		■	Toyota		
	◇ 011225891	350 / 420 Hz	111 dB (A)	12 V	2 x 42 W		Box - 2 items		■	Honda		
	◆ ◇ 011225101	420 Hz	111 dB (A)	12 V	1 x 42 W		Blister - 1 item	■	■	■		
	◆ ◇ 011225102	420 Hz	111 dB (A)	12 V	1 x 42 W		Box - 1 item	■	■	■		
S92 	◇ 011225871	335 / 435 Hz	113 db (A)	12 V	2 x 60 W	9.2 cm 9.2 x 5.6 cm	Box - 2 items	■	■	■		
	◇ 012588071	435 Hz	113 db (A)	12 V	1 x 60 W		Blister - 1 item	■	■	■		
	◇ 002768821	335 / 435 Hz	113 db (A)	24 V	2 x 72 W		Box - 2 items	■	■	■		
	◆ ◇ 012588141	335 Hz	113 db (A)	12 V	1 x 60 W		Blister - 1 item	■	■	■		
M26 	◇ 002952811	400 Hz	115 db (A)	12 V	1 x 66 W	9.7 cm 5.4 x 12.2 cm	Box - 1 item		■	■		
	◆ ◇ 002952861	335 Hz	115 db (A)	12 V	1 x 66 W		Box - 1 Pza		■	■		
	◆ ◇ 006958611	335 Hz	115 db (A)	12 V	1 x 66 W		Box - 1 item (negro)		■	■		
B36 	◇ 002768082	335 Hz	116 db (A)	12 V	1 x 72 W	11.2 cm 5.3 x 12.9 cm	Box - 1 item		■	■		
	◇ 002768551	400 Hz	116 db (A)	12 V	1 x 72 W		Box - 1 item		■	■		
	◇ 002768382	335 Hz	116 db (A)	24 V	1 x 72 W		Box - 1 item		■	■		
	◇ 002768431	400 Hz	116 db (A)	24 V	1 x 72 W		Box - 1 item		■	■		
M26S 	922000731	350 / 415 Hz	115 db (A)	12 V	2 x 42 W	10.8 cm 6.65 x 12.2 cm	Box - 2 items		■	■	■	■
B133 	◇ 003399801	300 / 500 Hz	118 db (A)	12 V	2 x 66 W	12.3 cm 8.5 x 12.5 cm	Box - 2 items		■	■	■	■
	◇ 003399803	300 / 500 Hz	118 db (A)	12 V	2 x 66 W		Box - 2 items + Relay		■	■	■	■
	◇ H31631021	500 Hz	118 db (A)	12 V	1 x 66 W		Box - 1 item		■	■	■	■
B133 	◇ 003399101	375 / 500 Hz	118 db (A)	24 V	2 x 84 W	12.3 cm 8.5 x 12.5 cm	Box - 2 items		■	■	■	■
	◆ ◇ 003399061	375 Hz	118 dB (A)	24 V	1 x 84 W		Box - 1 item		■	■	■	■
	◆ ◇ 003399071	500 Hz	118 dB (A)	24 V	1 x 84 W		Box - 1 item		■	■	■	■
DL50 	◇ 004811001	310 Hz	114 dB (A)	12 V	1 x 72 W	13 cm 6.1 x 14.3 cm	Box - 1 item			■	■	■
	◇ 004811011	380 Hz	114 dB (A)	12 V	1 x 72 W		Box - 1 item			■	■	■
	◆ ◇ 004811021	310 Hz	114 dB (A)	24 V	1 x 84 W		Box - 1 item			■	■	■
	◆ ◇ 004811031	380 Hz	114 dB (A)	24 V	1 x 84 W		Box - 1 item			■	■	■
TC16 	◇ 011225831	400 / 500 Hz	113 dB (A)	12 V	2 x 72 W	8.6 cm 8.6 x 10.9 cm	Box - 2 items	■	■	■		
	◇ 012010971	400 / 500 Hz	113 dB (A)	12 V	2 x 72 W		Blister - 2 items	■	■	■		

◆ = New Product

Series	 Part No.	 Frequency	 Acoustic Intensity	 Voltage	 Energy consumption	 Diameter / Size	 Packaging / Content						
TE16 	◇ 012010981	400 / 500 Hz	110 db (A)	12 V	2 x 72W	8.1 cm 8.1 x 10.9 cm	Box - 2 items + Relay	■	■	■			
	◆ 007424801	400 / 500 Hz	110 db (A)	12 V	2 x 72W		Box - 2 items + Relay	■	■	■			
	◇ 012010851	400 / 500 Hz	110 db (A)	12 V	2 x 72 W		Box - 2 items	■	■	■			
	◆ 007424811	400 / 500 Hz	110 db (A)	12 V	2 x 72 W		Box - 2 items	■	■	■			
	◇ 012010801	400 / 500 Hz	110 db (A)	12 V	2 x 72 W		Box - 2 items	■	■	■			
	◇ 012010821	400 / 500 Hz	110 db (A)	12 V	2 x 72 W		Box - 2 items	■	■	■			
	◇ 007424001	400 Hz	110 db (A)	12 V	1 x 72 W		Box - 1 Pzas..	■	■	■			
	◇ 007424011	400 Hz	110 db (A)	12 V	1 x 72 W		Box - 1 Pzas.	■	■	■			
TC16S  Specific Applications	◇ 011225841	400 / 500 Hz	113 db (A)	12 V	2 x 72 W	8.6 cm 8.6 x 10.9 cm	Box - 2 items						
	◇ 012010881	400 / 500 Hz	113 db (A)	12 V	2 x 72 W		Box - 2 items						
	◇ 011225921	400 / 500 Hz	113 db (A)	12 V	2 x 72 W		Box - 2 items						
	◇ 012010911	400 / 500 Hz	113 db (A)	12 V	2 x 72 W		Box - 2 items						
	◇ 011225901	400 / 500 Hz	113 db (A)	12 V	2 x 72 W		Box - 2 items						
	◇ 012010891	400 / 500 Hz	113 db (A)	12 V	2 x 72 W		Box - 2 items						
	◇ 012010901	400 / 500 Hz	113 db (A)	12 V	2 x 72 W		Box - 2 items						
	◇ 011225851	400 / 500 Hz	113 db (A)	12 V	2 x 72 W		Box - 2 items						
TE20C 	◇ 007728883	410 / 510 Hz	112 db (A)	12 V	2 x 60 W	8.6 cm 9.1 x 9.7 cm	Box - 2 items	■	■	■	■	■	
TE20 	◇ 940800821	410 / 510 Hz	110 db (A)	24 V	2 x 72 W	8.6 cm 9.1 x 9.7 x 8.7	Box - 1 Pza					■	
Highway Trumpet 	005411001	300 - 350 Hz	118 dB (A)	24 V	0 - 20 W	8 cm 7.8 x 16 x 41.5	Box - 1 item					■	
Air Compressor Trumpet 	004206041	400 Hz	118 dB (A)	12 V	35 W	11.9 cm 9.7 x 9 x 31.1	Box - 1 item					■	
	004206011	400 Hz	118 dB (A)	24 V	50 W		Box - 1 item						■
Double Tone Air Trumpet 	003001651	780 / 840 Hz	118 dB (A)	12 V	240 W	16.3 cm 21.2 cm (longitudes)	Blister - 1 Set.					■	
	003001661	780 / 840 Hz	118 dB (A)	24 V	240 W		Blister - 1 Set.						■
Triple Tone Air Trumpet 	003001671	780/820/880	118 dB (A)	12 V	240 W	15.8 cm 16.6 cm 21.7 cm (longitudes)	Blister - 1 Set.					■	
	◇ 003001681	630/795/840	118 dB (A)	12 V	240 W		Blister - 1 Set.						■
Air Compressor Horn 	◇ 013410001	-	115 dB (A)	12 V	312 W	9.2 x 8.4 x 38.6	Blister - 1 Set.					■	
Chrome Double Air Horn 	◇ 013410051	-	125 dB (A)	12 V	41 W	40.2x9.6 x 15.6	Box - 1 item					■	
	◇ 013410061	-	125 db (A)	24 V	77 W		Box - 1 item						■
Single-tone air horn 	◇ 013410011	-	115 dB (A)	12 V 24 V	120 W	116x144x203	Box - 1 item					■	
Backup Alarm 	◇ 009148142	1200 Hz	115 dB (A)	9 - 28 V	5.5 W	101x39x65	Blister - 1 item					■	
	◇ 009148141	1200 Hz	115 dB (A)	9 - 28 V	5.5 W		101x39x65	Box - 1 item					■
Backup Alarm 	996139001	1200 Hz	87 dB (A)	12 - 36 V	0.59 A	18x78x102	Box - 1 item					■	
	996139101	1300 Hz	107 dB (A)	12 - 36 V	0.4 A		Box - 1 item						■
	996139111	1250 Hz	112 dB (A)	12 - 36 V	0.4 A		Box - 1 item						■
Backup Alarm 	◇ 009148001	1250 Hz	90 dB (A)	12 - 24 V	0.2 A	101 x 6 x 74	Box - 1 item					■	
	◇ 009148011	1250 Hz	97 dB (A)	12 - 24 V	0.4 A		Box - 1 item						■
	◇ 009148021	1250 Hz	107 dB (A)	12 - 24 V	0.7 A		Box - 1 item						■

◆ = New Product

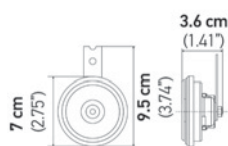
PRODUCT RANGE HORNS



2 Pieces



1 Piece



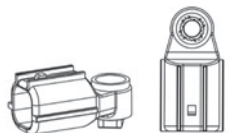
S70M Series - Horns for Motorcycles



Housing and bracket in black galvanized metal.
Level of acoustic intensity at 2 m distance: 108 dB (A).
Energy consumption: 16 W.
M8 screw horn bracket.
Operating Temperature: -40° C a 90° C (-40°F a 194°F)
Approval: ECE



Part No.	Quantity	Description
012588011	2 Pieces	Horns Box (graphic) 12 V, 2 x 16 W, 380 / 480 Hz - Universal Diameter Measurements: 7 cm 7 x 9.5 cm
012588061	1 Piece	High Tone - Plastic blister Horn 12 V, 16 W, 480 Hz - Universal Diameter Measurements: 7 cm 7 x 9.5 cm



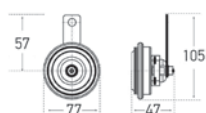
2 Pieces



1 Piece



1 Piece



S77 Series - Compact Horns



Housing and bracket in black galvanized metal.
Level of acoustic intensity at 2 m distance: 111 dB (A).
Energy consumption: 2 x 42 W
M8 screw horn bracket.
Operating Temperature: -40° C a 90° C (-40°F a 194°F)
With flat connections of 6.3 mm, open, blade type
With Teflon gasket as protection against moisture.
Approval: ECE R28



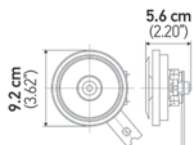
Part No.	Quantity	Description
011225802	2 Pieces	Box (graphic) Horns 12 V, 2 x 42 W, 350/420 Hz - Universal Diameter Measurements: 7.7 cm 4.7 x 10.5 cm
011225881	2 Pieces	Box (graphic) Horns 12 V, 2 x 42 W, 350/420 Hz - TOYOTA Diameter Measurements: 7.7 cm 4.7 x 10.5 cm With specific connector for Toyota
011225891	2 Pieces	Box (graphic) Horns 12 V, 2 x 42 W, 350/420 Hz - HONDA Diameter Measurements: 7.7 cm 4.7 x 10.5 cm With specific connector for Honda
011225101	1 Piece	High Tone - Plastic blister Horn 12 V, 1 x 42 W, 420 Hz - Universal Diameter Measurements: 7.7 cm 4.7 x 10.5 cm Individual presentation in blister pack
011225102	1 Piece	High Tone - Box (graphic) Horn 12 V, 1 x 42 W, 420 Hz - Universal Diameter Measurements: 7.7 cm 4.7 x 10.5 cm Individual presentation in Box



2 Piece



1 Piece



S92 Series

Housing, diaphragm and bracket in black galvanized metal.
 Level of acoustic intensity at 2 m distance: 113 dB (A).
 Energy consumption: 2 x 60 W @ 12 V | 2 x 72 W @ 24 V
 M8 screw horn bracket.
 Operating Temperature: -40° C a 90° C (-40°F a 194°F).
 With flat connections of 6.3 mm, open, blade type.
 Approval: CCC



Part No.	Quantity	Description
011225871	2 Pieces	Box (graphic) Horns 12 V, 2 x 60 W, 335/435 Hz - Universal Diameter Measurements: 9.2 cm 9.2 x 5.6 cm
002768821	2 Pieces	Box (graphic) Horns 24 V, 2 x 72 W, 335/435 Hz - Universal Diameter Measurements: 9.2 cm 9.2 x 5.6 cm
012588071	1 Piece	High Tone - Plastic blister Horn 12 V, 1 x 60 W, 435 Hz - Universal Diameter Measurements: 9.2 cm 9.2 x 5.6 cm



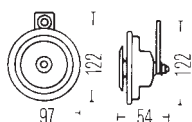
002952811



006958611



1 Piece



M26 Series - High Tone

Housing and bracket in galvanized metal, black diaphragm
 Level of acoustic intensity at 2 m distance: 115 dB (A).
 Energy consumption: 66 W.
 M8 screw horn bracket.
 Operating Temperature: -40° C a 90° C (-40°F a 194°F)
 With flat connections of 6.3 mm, open, blade type
 Approval: ECE R28



Part No.	Quantity	Description
002952811	1 Piece	Horn 12 V, 66 W, 400 Hz - Universal, silver Diameter Measurements: 9.7 mm 5.4 x 12.2 cm
006958611	1 Piece	Low Tone Horn 12 V, 66 W, 335 Hz - Universal, black Diameter Measurements: 9.7 mm 5.4 x 12.2 cm

PRODUCT RANGE

HORNS



B36 Series

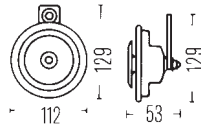
Housing and bracket in galvanized metal, black diaphragm
 Level of acoustic intensity at 2 m distance: 116 dB (A).
 Energy consumption: 72 W.
 M8 screw horn bracket.
 Operating Temperature: -40° C a 90° C (-40°F a 194°F)
 Approval: ECE R28



Part No.	Quantity	Description
002768082	1 Piece	Low Tone Horn 12 V, 72 W, 335 Hz - Universal Diameter Measurements: 11.2 cm 5.3 x 12.9 cm
002768551	1 Piece	High Tone Horn 12 V, 72 W, 400 Hz - Universal Diameter Measurements: 11.2 cm 5.3 x 12.9 cm
002768382	1 Piece	Low Tone - 24 V Horn 24 V, 72 W, 335 Hz - Universal Diameter Measurements: 11.2 cm 5.3 x 12.9 cm
002768431	1 Piece	High Tone - 24 V Horn 24 V, 72 W, 400 Hz - Universal Diameter Measurements: 11.2 cm 5.3 x 12.9 cm



1 Piece

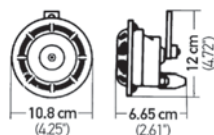


M26S Series - Set of Horns

Black housing and bracket, yellow protective grid and blue diaphragm in galvanized metal.
 Level of acoustic intensity at 2 m distance: 115 dB(A).
 Energy consumption: 2 x 42 W.
 M8 screw horn bracket.
 Operating Temperature: -40° C a 90° C (-40°F a 194°F)
 With flat connections of 6.3 mm, open, blade type
 Approval: ECE R28



Part No.	Quantity	Description
922000731	2 Pieces	Horns 12 V, 2 x 42 W, 350 / 415 Hz - Universal Diameter Measurements: 10.8 cm 6.65 x 12.2 cm





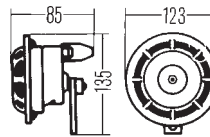
2 Pieces
1 Relay



2 Pieces
1 Relay



1 Piece



B133 Series - Supertone Horns with 12 V Relay

Extremely concentrated sound radiation and powerful range. Particularly suitable for traffic on motorways.

Black housing, diaphragm and bracket, red protective grille, in galvanized metal.

Level of acoustic intensity at 2 m distance: 118 dB(A).

Energy consumption: 2 x 66 W

M8 screw horn bracket.

Operating Temperature: -40° C a 90° C (-40°F a 194°F)

With flat connections of 6.3 mm, open, blade type

Approval: ECE R28



Part No.	Quantity	Description
003399803	2 Pieces	Plastic blister Horns 12 V, 2 x 66 W, 300/500 Hz - Universal Diameter Measurements: 12.3 cm 8.5 x 12.5 cm
	1 Piece	Includes 12 V Relay
003399801	2 Pieces	Box (graphic) Horns 12 V, 2 x 66 W, 300/500 Hz - Universal Diameter Measurements: 12.3 cm 8.5 x 12.5 cm
	1 Piece	Includes 12 V Relay
H31631021	1 Piece	High Tone - Box (yellow) Horn 12 V, 1 x 66 W, 500 Hz - Universal Diameter Measurements: 12.3 cm 8.5 x 12.5 cm

B133 Series - Set of Supertone Horns

Black housing, protective grille and bracket, in galvanized metal.

Level of acoustic intensity at 2 m distance: 118 dB(A).

Energy consumption: 2 x 84 W @ 24 V

M8 screw horn bracket.

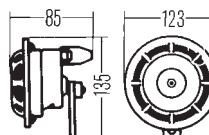
Operating Temperature: -40° C a 90° C (-40°F a 194°F)

With flat connections of 6.3 mm, open, blade type

Approval: ECE R28



2 Pieces



Part No.	Quantity	Description
003399101	2 Pieces	Horns 24 V, 2 x 84 W, 375/500 Hz - Universal Diameter Measurements: 12.3 mm 8.5 x 12.5 cm
003399061	1 Piece	Low Tone Horns 24 V, 1 x 84 W, 375 Hz - Universal Diameter Measurements: 12.3 cm 8.5 x 12.5 cm
003399071	1 Piece	High Tone Horns 24 V, 1 x 84 W, 500 Hz - Universal Diameter Measurements: 12.3 cm 8.5 x 12.5 cm

PRODUCT RANGE

HORNS & TRUMPET HORNS



DL50 Series



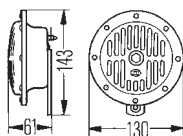
Black housing and bracket in galvanized metal.
 Level of acoustic intensity at 2 m distance: 114 dB(A).
 Energy consumption: 72 W
 M8 screw horn bracket.
 Operating Temperature: -40° C a 90° C (-40°F a 194°F)
 With flat connections of 6.3 mm, open, blade type
 Approval: ECE R28



2 Pieces



1 Piece



Part No.	Quantity	Description
004811042	2 Pieces	Box (graphic) Horn 12 V, 72 W, 310/380 Hz - Universal Diameter Measurements: 13 cm 6.1 x 14.3 cm
004811001	1 Piece	Low Tone Horn 12 V, 72 W, 310 Hz - Universal Diameter Measurements: 13 cm 6.1 x 14.3 cm
004811011	1 Piece	High Tone Horn 12 V, 72 W, 380 Hz - Universal Diameter Measurements: 13 cm 6.1 x 14.3 cm
004811021	1 Piece	Low Tone Horn 24 V, 84 W, 310 Hz - Universal Diameter Measurements: 13 cm 6.1 x 14.3 cm
004811031	1 Piece	High Tone Horn 24 V, 84 W, 380 Hz - Universal Diameter Measurements: 13 cm 6.1 x 14.3 cm



TC16 Series



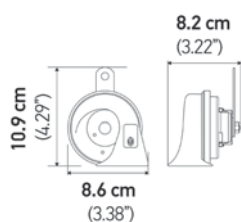
ABS plastic housing and galvanized metal bracket
 Level of acoustic intensity at 2 m distance: 113 dB(A).
 Energy consumption: 2 x 72 W.
 M8 screw horn bracket.
 Operating Temperature: -40° C a 90° C (-40°F a 194°F)
 With flat connections of 6.3 mm, open, blade type
 Approval: CCC



2 Pieces



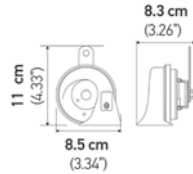
2 Pieces



Part No.	Quantity	Description
011225831	2 Pieces	Box (graphic) Trumpets 12 V, 2 x 72 W, 400 / 500 Hz - Universal Diameter Measurements: 8.6 cm 8.6 x 10.9 cm
012010971	2 Pieces	Plastic blister Horn 12 V, 2 x 72 W, 400 / 500 Hz - Universal Diameter Measurements: 8.6 cm 8.6 x 10.9 cm



2 Pieces
1 Relay



TE16 Series - Set of Twin Tone Trumpet Horns with 12 V Relay

ABS plastic housing and black bracket in galvanized metal.
 Level of acoustic intensity at 2 m distance: 110 dB(A).
 Energy consumption: 2 x 72 W.
 M8 screw horn bracket.
 Operating Temperature: -40° C a 90° C (-40°F a 194°F)
 With flat connections of 6.3 mm, open, blade type
 Approval: ECE R28
 Includes 12 V Relay

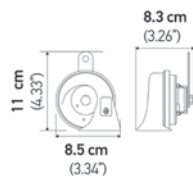
Part No.	Quantity	Description
007424801	2 Pieces	Trumpets 12 V, 2 x 72 W, 400 / 500 Hz - Universal Diameter Measurements: 8.1 cm 8 x 10.9 cm Red Horn
	1 Piece	Includes 12 V Relay



1 Piece



2 Pieces



TE16 Series - Set of Trumpets

ABS plastic housing and black bracket in galvanized metal.
 Level of acoustic intensity at 2 m distance: 110 dB(A).
 Energy consumption: 2 x 72 W.
 M8 screw horn bracket.
 Operating Temperature: -40° C a 90° C (-40°F a 194°F)
 With flat connections of 6.3 mm, open, blade type
 Approval: ECE R28

Part No.	Quantity	Description
012010801	2 Pieces	Box (graphic) Trumpets 12 V, 2 x 72 W, 400 / 500 Hz - Universal Diameter Measurements: 8.1 cm 8 x 10.9 cm Blue Horn
012010821	2 Pieces	Box (graphic) Trumpets 12 V, 2 x 72 W, 400 / 500 Hz - Universal Diameter Measurements: 8.1 cm 8 x 10.9 cm Yellow Horn
007424001	1 Piece	Low Tone - Box (yellow) Horn 12 V, 1 x 72 W, 400 - Universal Diameter Measurements: 8.1 cm 8 x 10.9 cm Red Horn
007424011	1 Piece	High Tone - Box (yellow) Horn 12 V, 1 x 72 W, 500 - Universal Diameter Measurements: 8.1 cm 8 x 10.9 cm Red Horn

PRODUCT RANGE

TRUMPET HORNS



TC16S Series - Original Equipment Connector



ABS plastic housing and galvanized metal bracket
 Level of acoustic intensity at 2 m distance: 113 dB(A).
 Energy consumption: 2 x 72 W.



400 / 500 Hz



113 dB(A)



12V

M8 screw horn bracket.

Operating Temperature: -40° C a 90° C (-40°F a 194°F)

With flat connections of 6.3 mm, open, blade type

Approval: CCC



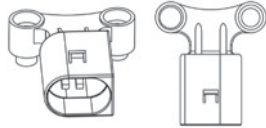
8.6 cm (3.38)



2 x 72 W



CCC



011225841

2 Pieces

Horns 12 V, 2 x 72 W, 400 / 500 Hz - AUDI / VOLKSWAGEN

Diameter | Measurements: 8.6 cm | 8.6 x 10.9 cm
 With specific connector

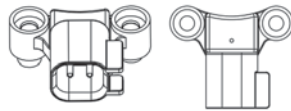


012010881

2 Pieces

Horn 12 V, 2 x 72 W, 400 / 500 Hz - BMW / MINI

Diameter | Measurements: 8.6 cm | 8.6 x 10.9 cm
 With specific connector

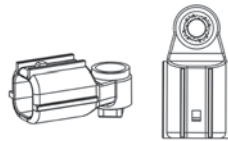


011225921

2 Pieces

Horn 12 V, 2 x 72 W, 400 / 500 Hz - FORD

Diameter | Measurements: 8.6 cm | 8.6 x 10.9 cm
 With specific connector

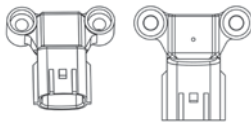


012010911

2 Pieces

Horn 12 V, 2 x 72 W, 400 / 500 Hz - HONDA

Diameter | Measurements: 8.6 cm | 8.6 x 10.9 cm
 With specific connector

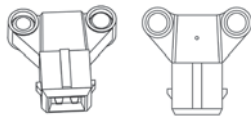


011225901

2 Pieces

Horn 12 V, 2 x 72 W, 400 / 500 Hz - HYUNDAI / KIA

Diameter | Measurements: 8.6 cm | 8.6 x 10.9 cm
 With specific connector

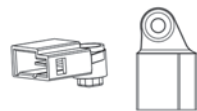


012010891

2 Pieces

Horn 12 V, 2 x 72 W, 400 / 500 Hz - PEUGEOT

Diameter | Measurements: 8.6 cm | 8.6 x 10.9 cm
 With specific connector

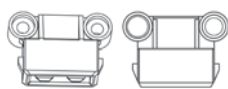


012010901

2 Pieces

Horn 12 V, 2 x 72 W, 400 / 500 Hz - TOYOTA

Diameter | Measurements: 8.6 cm | 8.6 x 10.9 cm
 With specific connector



011225851

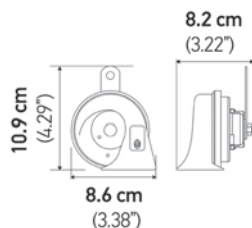
2 Pieces

Horn 12 V, 2 x 72 W, 400 / 500 Hz - AUDI / VOLKSWAGEN

Diameter | Measurements: 8.6 cm | 8.6 x 10.9 cm
 With specific connector



2 Pieces



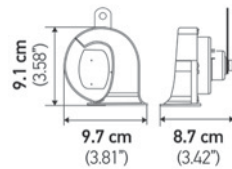


Special Edition

Horn chrome HELLA:
Quality to the last detail



2 Pieces



TE20C Series - Chrome



Chromed ABS plastic housing and galvanized metal bracket.
Level of acoustic intensity at 2 m distance: 112 dB(A).
Energy consumption: 2 x 60 W
M8 screw horn bracket.
Operating Temperature: -40° C a 90° C (-40°F a 194°F).
With flat connections of 6.3 mm, open, blade type.



Part No.	Quantity	Description
007728883	2 Pieces	Trumpets 12 V, 2 x 60 W, 410 / 510 Hz - Universal Diameter Measurements: 8.6 cm 9.1 x 9.7 x 8.7 cm Chrome Horn



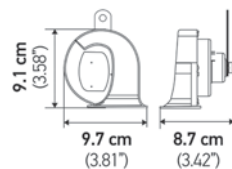
Series TE20



ABS plastic housing and galvanized metal bracket.
Level of acoustic intensity at 2 m distance: 110 dB(A)
Energy consumption: 2 x 72 W
M8 screw horn bracket.
Operating Temperature: -40° C a 90° C (-40°F a 194°F)
With flat connections of 6.3 mm, open, blade type



2 Pieces



Part No.	Quantity	Description
940800821	2 Pieces	Trumpets 24 V, 2 x 72 W, 410 / 510 Hz - Universal Diameter Measurements: 8.6 cm 9.1 x 9.7 x 8.7 cm Black Horn

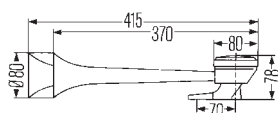
PRODUCT RANGE

TRUMPET HORNS & AIR TRUMPET HORNS



Twin Compressed Air Horn

For vehicles with a compressed air brake system.
 Chromed lid and trumpet, matt black base
 Pneumatic operation
 Level of acoustic intensity at 2 m distance: 118 dB(A).
 Energy consumption: 0 - 20 W.
 Suitable for tubular fittings Ø 8 mm.
 2 holes for fixing screws M10.
 Approval: ECE
 Pressure Range: 4 - 8.3 bar



Part No.	Quantity	Description
005411001	1 Piece	Compressed air horn 24 V, 0 - 20 W, 300 - 350 Hz - Universal Measurements: 7.8 x 16 x 41.5 cm



Accessories

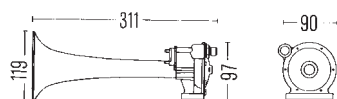
The horn can be operated in three different ways:

Part No.	Quantity	Description
1 715989001	1 Set	Mounting on the roof of the cab. Drive pulling the pull cable coated, 120 cm long. Traction Valve.
2 715990001	1 Set	Cabin floor mounting. Actuation with the foot. Pedal valve.
3 715991001	1 Set	Mounting in the engine compartment. Drive by pressing Horn button. With flat connections of 6.3 mm, open. Power absorbed: 20W. Electric valve, 24V.



Compressed Air Trumpet

For vehicles with a compressed air brake system.
 Level of acoustic intensity at 2 m distance: 118 dB (A).
 Energy consumption: 35W @ 12V, 50W @ 24V.
 6.3mm flat blade type terminals.
 Robust diecast housing.
 Suitable for tubular fitting Ø 10 mm.
 Pneumatic operation, 2 holes for M10 fixing screws.
 Operating Temperature: -40° C a 90° C (-40°F a 194°F)
 Approval: ECE
 Pressure Range: 6 - 8.3 bar



Part No.	Quantity	Description
004206041	1 Piece	Trumpet 12 V, 35 W, 400 Hz - Universal Diameter Measurements: 11.9 cm 9.7 x 9 x 31.1 cm
004206011	1 Piece	Trumpet 24 V, 50 W, 400 Hz - Universal Diameter Measurements: 11.9 cm 9.7 x 9 x 31.1 cm

1 Piece



Set of Twin Tone Air Horns

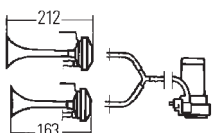
Compressed air horn with ABS plastic body and support in galvanized metal
 Level of acoustic intensity at 2 m distance: 118 dB(A).
 Energy consumption: 240 W.
 Mounting bracket included
 Operating Temperature: -40° C a 90° C (-40°F a 194°F)
 Approval: ECE

780 / 840 Hz 118 dB (A) 12 V- 24 V-
 240 W ECE

Part No.	Quantity	Description
003001651	1 Set	2 Electric Horns - Pneumatic 12 V, 240 W, 780 / 840 Hz - Universal Length of Trumpets: 16.3 cm 21.2 cm Includes compressor, pressure tubes, bifurcated Piece Fastening and Relay 12 V
003001661	1 Set	2 Electric Trumpets - Pneumatic 24 V, 240 W, 780 / 840 Hz - Universal Length of Trumpets: 16.3 mm 21.2 cm Includes compressor, pressure tubes, bifurcated Piece Fastening and Relay 24 V



1 Piece
 1 Relay



Set of Triple Tone Air Horns

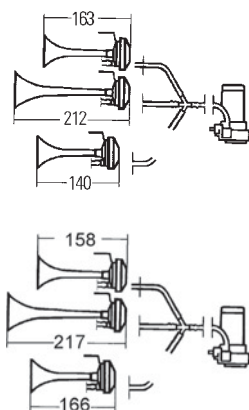
Compressed air horns with ABS plastic body and support in galvanized metal
 Level of acoustic intensity at 2 m distance: 118 dB(A).
 Energy consumption: 240 W.
 Mounting bracket included
 Operating Temperature: -40° C a 90° C (-40°F a 194°F)
 Approval: ECE

780 / 820 / 880 Hz 118 dB (A) 12 V-
 630 / 795 / 840 Hz 240 W ECE

Part No.	Quantity	Description
003001671	1 Set	3 Electric Horns - Pneumatic 12 V, 240 W, 780 / 820 / 880 Hz - Universal Length of Trumpets: 14 cm 16.3 cm 21.2 cm Includes compressor, pressure tubes, bifurcated Piece Fastening and Relay 12 V
003001681	1 Set	3 Electric Trumpets - Pneumatic Melodic Sound 12 V, 240 W, 630 / 795 / 840 Hz - Universal Length of Trumpets: 15.8 cm 16.6 cm 21.7 cm Includes compressor, pressure tubes, bifurcated Piece Fastening and Relay 12 V



1 Piece
 1 Relay



PRODUCT RANGE

AIR TRUMPET HORNS & BACKUP ALARMS

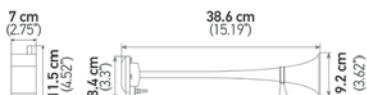
Compact Air Horn



Pneumatic operation
 Level of acoustic intensity at 2 m distance: 115 dB(A).
 Energy consumption: 312 W.
 Robust Housing.
 With flat connections of 6.3 mm, open, blade type
 2 holes for M10 fixing screws.
 Pressure Range: 0.98 bar



Part No.	Quantity	Description
013410001	1 Set	Compact Horn using compressed air 12 V, 312 W - Universal Measurements: 9.2 x 8.4 x 38.6 cm Includes compressor, pressure tubes, Fastening and Relay 12 V



Single Tone Air Horn



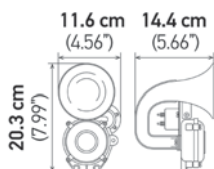
For vehicles with a compressed air brake system.
 Pneumatic operation
 Level of acoustic intensity at 2 m distance: 115 dB(A).
 Energy consumption: 120 W.
 Robust Housing
 Suitable for tubular fittings \varnothing 8 mm.
 2 holes for M10 fixing screws.
 Pressure Range: 5.88 bar



Part No.	Quantity	Description
013410011	1 Piece	Compressed air horn - Single tone 12 - 24 V, 120 W - Universal Measurements: 11.6 x 14.4 x 20.3 cm



1 Piece





Back Up Alarm



Black plastic housing.
 With integrated bracket for universal mounting.
 The level of sound intensity is generated by the electronics of solid bodies.
 Level of acoustic intensity at 2 m distance: 110 dB (A).
 Multivoltage: 9 V - 48 V
 Rated Continuous Current: 0.1 - 0.6 A
 Operating temperature: -40 ° C to +85 ° C.
 Protection class: IP67 (Resistant to water immersions)



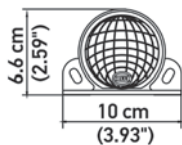
Part No.	Quantity	Description
009148142	1 Piece	Back Up Alarm - Plastic blister Multivolt: 9 - 48 V - Universal Protection Class: IP67K Measurements: 10.1 x 3.9 x 6.5 cm NEW
009148141	1 Piece	Back Up Alarm - Box Multivolt: 9 - 48 V - Universal Protection Class: IP67K Measurements: 10.1 x 3.9 x 6.5 cm



1 Piece



1 Piece



Ask your sales representative about product availability in your region

PRODUCT RANGE BACKUP ALARMS



Reverse Alarm



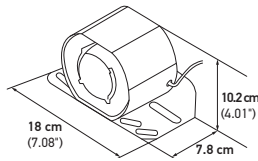
Black steel housing.
With integrated bracket for universal mounting.
The level of sound intensity is generated by the solid body electronics.

Approved against electromagnetic tolerance and according to SAE.
With protection against reverse polarity and voltage points.
Operating temperature: -40 °C to +85 °C.
60 signals per minute.
Protection class: IP5K9K, CE, SAE J994, E11.

Part No.	Quantity	Description
996139001	1 Piece	Reverse Alarm With automatic adaptation to the environment with variable acoustic level. The solid body electronics is automatically set to 5 dB (A) above the ambient acoustic level. With connection cable of 16 cm long Voltage: 12V - 24V. Current consumption: 0.59A - 0.71A. Acoustic level: 87-112 dB (A) (1.2 m). Frequency: 1200 Hz ± 20%.
996139101	1 Piece	Reverse Alarm. With connection cable 16 cm long Voltage: 12V - 36V. Current consumption: 0.4A. Acoustic level: 107 dB (A) (1.2 m). Frequency: 1300 Hz ± 20%.
996139111	1 Piece	Reverse Alarm. With connection cable 16 cm long Voltage: 12V - 36V. Current consumption: 0.4A. Acoustic level: 112 dB (A) (1.2 m). Frequency: 1250 Hz ± 20%.



1 Piece



Reverse Alarm



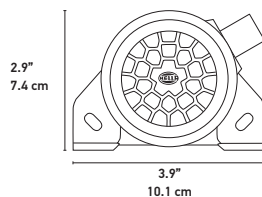
Black plastic housing.
With integrated bracket for universal mounting.
The level of sound intensity is generated by the electronic of solid bodies.

Approved against electromagnetic tolerance and according to SAE.
With protection against reverse polarity and voltage points.
Operating temperature: -40 °C to +85 °C.
Frequency: 60 signals per minute; 1250 Hz ± 20% .

Part No.	Quantity	Description
009148001	1 Piece	Reverse Alarm. Voltage: 12V - 24V. Current consumption: 0.1A - 0.2A. Acoustic level: 90 dB (A) (1.2 m), with integrated AMP plug.
009148011	1 Piece	Reverse Alarm. Voltage: 12V - 24V. Current consumption: 0.3A - 0.4A. Acoustic level: 97 dB (A) (1.2 m), with integrated AMP plug.
009148021	1 Piece	Reverse Alarm. Voltage: 12V - 24V. Current consumption: 0.6A - 0.7A. Acoustic level: 107 dB (A) (1.2 m), with integrated AMP plug.



1 Piece


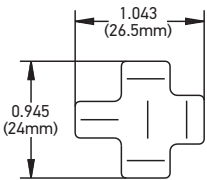

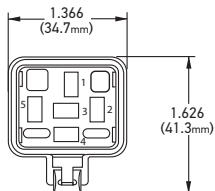


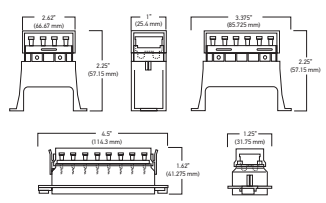

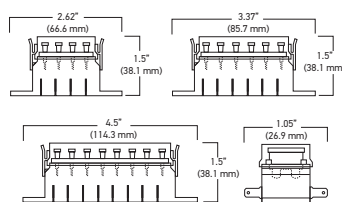
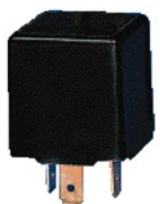
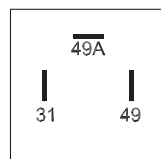



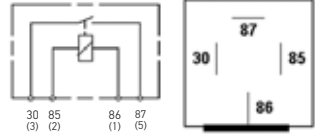

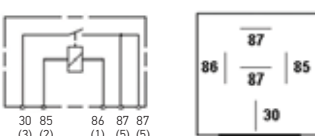

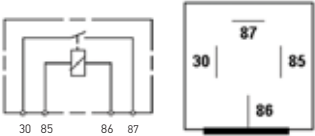

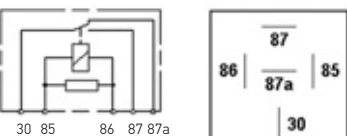

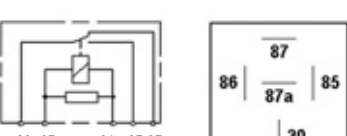

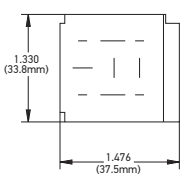


ACCESSORIES

PRODUCT RANGE

ACCESSORIES

Product image / Dimensions	Characteristics	Part No.	Technical Specifications
Connector base Mini ISO plug 	<ul style="list-style-type: none"> Mini ISO plug connector base Cable Harness Connector 	H84989021	Quantity: 1 Piece
		H84989027	Quantity: 50 Pieces
Socket Mini ISO 	<ul style="list-style-type: none"> Mini ISO socket Relay connector resistant to outdoor elements With 12" cables 	H84709001	Quantity: 1 Piece
		Terminals <ul style="list-style-type: none"> Female terminals 	
Fuse Holder Box 	<ul style="list-style-type: none"> Fuse Holder Box Bottom flange connection Splash proof Plastic cover with snap fit O-ring sealing Maximum load: 20 A per circuit Fuses not included 	H84960061	Fuse Box - 4 way
		H84960081	Fuse Box - 6 way
		H84960101	Fuse Box - 8 way
Fuse Holder Box Lateral connection 	<ul style="list-style-type: none"> Fuse Holder Box Side connection Splash proof Plastic cover with snap fit O-ring sealing Maximum load: 20 A per circuit Fuses not included 	H84960071	Fuse Box - 4 way, side connection
		H84960091	Fuse Box - 6 way, side connection
		H84960111	Fuse Box - 8 way, side connection
	3 Pin Flasher Unit - 12V 	H42675031	Quantity: 1 Piece
	<ul style="list-style-type: none"> High capacity flasher with 8 bulb maximum. Suitable for hazard warning applications. Max Load: 16 Bulbs (Hazard) 	931675037	Quantity: 320 Pieces

Product image / Dimensions	Characteristics	Part No.	Technical Specifications				
	Mini Relay ISO 	965400001	Minimum Order Quantity: 1 Alternate Contacts Distribution Mounting bracket				
		Technical data: <table border="1"> <tr> <td>Rated Voltage</td> <td>12 V</td> </tr> <tr> <td>Rated Continuous Current</td> <td>30 A a 85°C</td> </tr> <tr> <td>Contact form</td> <td>1 Form A / SPST N/O</td> </tr> </table>		Rated Voltage	12 V	Rated Continuous Current	30 A a 85°C
Rated Voltage	12 V						
Rated Continuous Current	30 A a 85°C						
Contact form	1 Form A / SPST N/O						
	Mini Relay ISO 	933791061	Minimum Order Quantity: 1 Mounting bracket Dual Output (2 x Terminal 87)				
		Technical data: <table border="1"> <tr> <td>Rated Voltage</td> <td>12 V</td> </tr> <tr> <td>Rated Continuous Current</td> <td>40 A a 85°C</td> </tr> <tr> <td>Contact form</td> <td>1 Form A / SPST N/O (2 x Terminal 87)</td> </tr> </table>		Rated Voltage	12 V	Rated Continuous Current	40 A a 85°C
Rated Voltage	12 V						
Rated Continuous Current	40 A a 85°C						
Contact form	1 Form A / SPST N/O (2 x Terminal 87)						
	Mini Relay ISO 	965400031	Minimum Order Quantity: 1 Alternate Contacts Distribution Mounting bracket				
		Technical data: <table border="1"> <tr> <td>Rated Voltage</td> <td>24 V</td> </tr> <tr> <td>Rated Continuous Current</td> <td>30 A a 85°C</td> </tr> <tr> <td>Contact form</td> <td>1 Form A / SPST N/O</td> </tr> </table>		Rated Voltage	24 V	Rated Continuous Current	30 A a 85°C
Rated Voltage	24 V						
Rated Continuous Current	30 A a 85°C						
Contact form	1 Form A / SPST N/O						
	Mini Relay ISO 	007794301	Minimum Order Quantity: 1				
		Technical data: <table border="1"> <tr> <td>Rated Voltage</td> <td>12V</td> </tr> <tr> <td>Rated Continuous Current</td> <td>N/O 40A N/C 20A a 85°C</td> </tr> <tr> <td>Contact form</td> <td>1 Form C / SPDT</td> </tr> </table>		Rated Voltage	12V	Rated Continuous Current	N/O 40A N/C 20A a 85°C
Rated Voltage	12V						
Rated Continuous Current	N/O 40A N/C 20A a 85°C						
Contact form	1 Form C / SPDT						
	Mini Relay ISO 	933332201	Minimum Order Quantity: 1 Coil suppression resistor Weatherproof cover				
		Technical data: <table border="1"> <tr> <td>Rated Voltage</td> <td>24 V</td> </tr> <tr> <td>Rated Continuous Current</td> <td>N/O 20 A N/C 10 A a 85°C</td> </tr> <tr> <td>Contact form</td> <td>1 Form C / SPDT</td> </tr> </table>		Rated Voltage	24 V	Rated Continuous Current	N/O 20 A N/C 10 A a 85°C
Rated Voltage	24 V						
Rated Continuous Current	N/O 20 A N/C 10 A a 85°C						
Contact form	1 Form C / SPDT						
	Mini Plug Socket 	003526001	Quantity: 5 Piece				
		003526002	Quantity: 50 Pieces				
<ul style="list-style-type: none"> • Mini plug socket • 5 - 9 terminals • With Mounting bracket 							

Terminals

- Female terminals



Part No.	Cable AWG	Size of the terminal	Quantity per package
701235033	14 - 16	0.250" (6.3mm)	100
733815003	18	0.188" (4.8mm)	100