



INSTRUCTION SHEET
for: **Part No. 2VA 980 710-xxx**

APPLICATION AND
MOUNTING INSTRUCTIONS

DuraLED® Combi STOP / TAIL / INDICATOR LAMP with REFLECTOR
Multivolt (Suitable for 12 and 24 volt systems)

Features Include:

- **DuraLED® Combi** = Fully sealed and submersible
- **DuraLED® Combi** = Stop, Rear Position, Direction Indicator and Reflector functions in a single lamp
- **DuraLED® Combi** = Vibration and shock resistant
- **DuraLED® Combi** = Ultra long service life
- **DuraLED® Combi** = Ultra fast response time
- **DuraLED® Combi** = Lens made from advanced Grilamid® material with enhanced impact and chemical resistance
- **DuraLED® Combi** = Reverse polarity protected
- **DuraLED® Combi** = Low power consumption
- **DuraLED® Combi** = Enhanced transient spike protection

Lens Marking and Installation Requirements

This Stop / Rear Position / Rear Indicator Lamp with Reflector, identified by lens marking (E24) 5882 and the HELLA logo was manufactured to comply with:

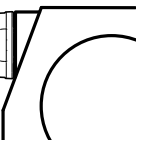
ECE Regulation 3 Class IA for Retro-Reflecting Devices
ECE Regulation 6 Category 2a for Rear Direction Indicator Lamps
ECE Regulation 7 for Rear Position (Side) / Stop Lamps

- Lamp mounting surface must be vertical to the ground, and at right angles to the longitudinal axis of the vehicle.
- Lamp must be visible from 45° inboard and 80° outboard, as well as from 15° above and below the horizontal axis.
- At least two lamps are required.
- Lamps must not be mounted less than 350 mm and more than 1200 mm above the ground.
- Lamps must be mounted within 400 mm of the widest point of the vehicle and no closer than 600 mm together.
- Lamp is approved to be mounted horizontally only.

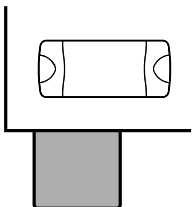
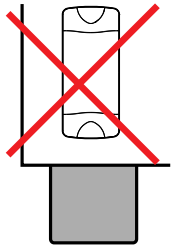
Please refer to ECE Regulation 48 for more details.

Note: When mounting lamps on a trailer, additional triangular retro-reflectors (Class IIIA) are required for ECE compliance.

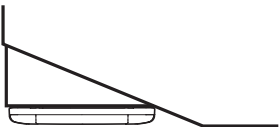
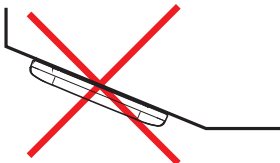
Side View



Rear View



Top View



HELLA KGaA Hueck & Co.

Mounting instruction
Anbauanweisung

L-DL-FSCT
29.04.2014
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Belongs to approval no.: E24 5882

Gehört zu Gen.-Nr.:

Rear Position, Stop Lamp, Rear Direction Indicator and Reflex Reflector for Automobile.
Schluss-, Bremsleuchte, hinterer Fahrtrichtungsanzeiger und Rückstrahler Kraftfahrzeug.

Light source(s): Lichtquelle(n):	Test voltage: Prüfspannung:	Nominal voltage: Nennspannung:	Nominal power: Nennleistung:
1 Rear Direction Indicator Hinterer Fahrtrichtungsanzeiger	8 LEDs 13.5V or / oder 28V	12V or / oder 24V	4W
2 Stop Lamp Bremsleuchte	8 LEDs 13.5V or / oder 28V	12V or / oder 24V	4W
2 Rear Position Lamp Schlussleuchte	4 LEDs 13.5V or / oder 28V	12V or / oder 24V	1W

✧ = Centre of reference in accordance with the ECE-Regulations-No.: 3, 6 and 7.
Bezugspunkt nach den ECE-Regelungen Nr.: 3, 6 und 7.

✧ = Centre of reference for the definition for illuminating surface in accordance with the Council Directive 76/756 EEC or ECE-Regulation No. 48 (see Annex A).
Bezugspunkt zur Bestimmung der Grenzen der leuchtenden Fläche nach 76/756 EWG bzw. ECE-Regelung Nr. 48.
Markierung s. auf der Abschluss-Scheibe. Maße s. Anlage A.

Axis of reference: Parallel to the car centre line and parallel to the road.
Bezugsachse: Parallel zur Fahrzeuglängsachse und parallel zur Fahrbahn.

The lamp can be rotated 180° around the reference axis.
Die Leuchte kann auch 180° gedreht um die Bezugsachse angebaut werden.

For left- and right hand mounting.
Für links- und rechtsseitigen Einbau.



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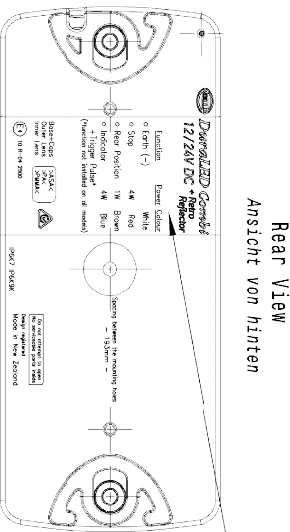
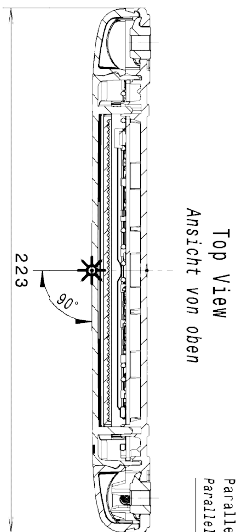
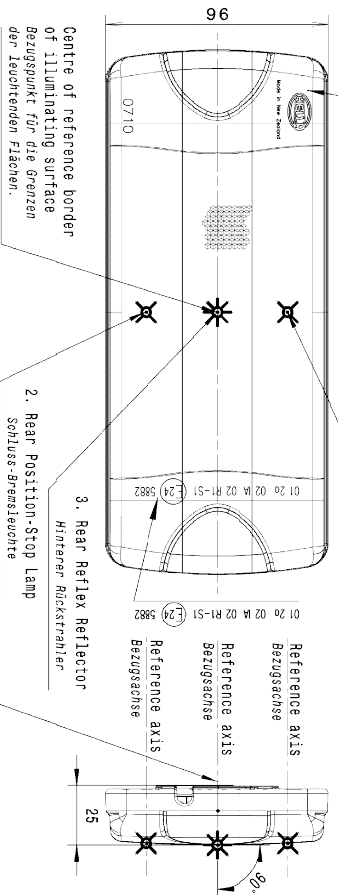
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Gehört zu Gen.-Nr.:

Front View
Ansicht von vorn
1. Rear Direction Indicator
Hinterer Fahrtrichtungsanzeiger
Side View
Ansicht von der Seite



DuraLED® Combi
12/24V DC + Retro Reflector

Function	Power Colour
o Earth (-)	White
o Stop	Red
o Rear Position	Brown
o Indicator	4W Blue
+Trigger Pulse*	

(Function not indicated on all models)

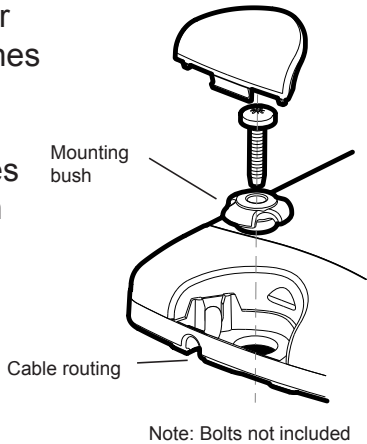
Lamp Mounting Instruction

Screw Cap Removal

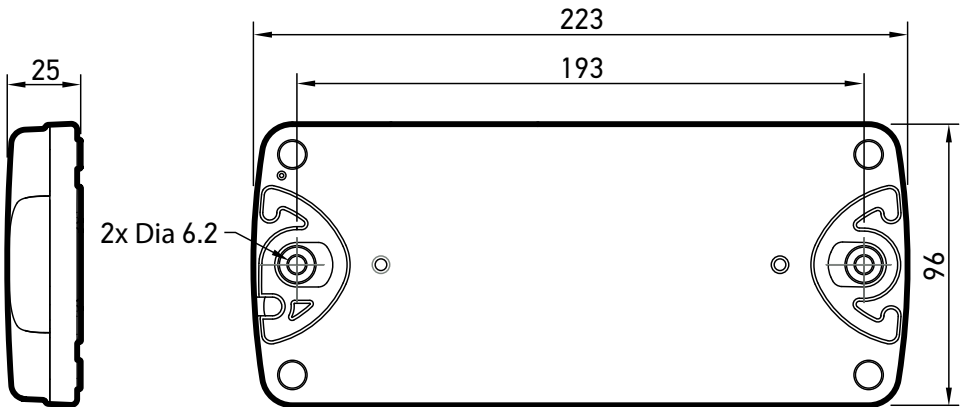
Carefully insert a small flat blade screwdriver between the cap and the lens and pull towards the lens, the cap will clip off. To install the cap push in by hand until the top is flush with the lens.

Surface Mounting

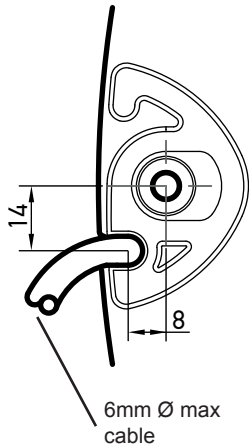
- Drill two holes up to 6.5mm Ø at 193mm centres. 6mm Ø screws or bolts are recommended to mount the lamp using the mounting bushes provided.
- Lamp should be mounted on a flat surface.
- If passing the cable through a hole, ensure there are no sharp edges to cut or chafe the cable. Alternatively, cable can be routed through the end of the base.
- Connect lamp as per chart below.
- Try to keep the cable as long as possible, preferably join the cable inside a sealed cable junction box.
- Clip the screw caps on securely until flush with the lamp surface.



General Dimensions (in millimetres)



Cable Exit Location



Wiring Colour Coding

Lamp is polarity conscious. The reversal of the polarity will not damage this product but will inhibit its function.

HELLA recommends wire connections be soldered, and heat shrink tubing applied to seal the joint.

Colour	Connect to	Power Consumption
White	Earth (-)	-
Red	Stop (+)	4 watts
Brown	Rear Position (+)	1 watt
Blue	Indicator (+)	4 watts

NB: Lamp must be protected by a fuse rated at 5 amperes maximum.

Introduction

Multivolt LED signal and marker lamps offer many advantages over conventional bulb lamps. Significantly reduced power consumption, ultra long life and high tolerance to shock and vibration make LED lamps the ideal choice for the commercial transport industry, where the cost of ownership versus the initial purchase price of the product is well understood.

Compatibility to existing electrical systems

It is important for the installer to ascertain the compatibility of the low power consumption LED lamps with the electrical and/or electronic systems of the complete vehicle, including trailers. In most cases the reduced power consumption is beneficial by imposing less demands on the entire electrical system. For certain functions some electrical systems rely on a set power consumption for monitoring whether, for example, a trailer is connected.

Electromagnetic Compatibility (EMC)

This Dualvolt LED lamp is an electronic device. The electrical circuits contain components that suppress possible interference, both emission as well as susceptibility, to the limits prescribed in UNECE Vehicle Regulation No. 10. To avoid false signals or interference, it is standard practice that sensitive instrumentation such as ABS and Tachometers etc. are provided with direct earths.

Protection against damage due to voltage spikes

This Multivolt LED lamp is protected against damage from positive voltage spikes caused by events such as load dump conditions specified in ISO 7637 and contains a Transient Voltage Suppressor (TVS) designed to withstand a pulse of up to 5000 Watts. The lamp is protected against reverse polarity connection and negative voltage spikes of up to 1000 volts.

Electric Welding

Electric Welding may damage the LED lamps. For LED lamps, HELLA recommends the negative connection to be wired isolated from the vehicle chassis. If the lamp uses the chassis as the earth return it is recommended that this earth return is disconnected during electric welding.

FIT AND FORGET - BY DESIGN

Congratulations, the product you have selected comes from **HELLA** - a world leader in LED lighting design.



Following the launch of the first LED automotive signal lamps in 1990, **HELLA** Design and Innovation continues to set new standards. **HELLA** innovative solutions have been incorporated into millions of lamps, engineered and tested to the most stringent standards, to suit the most demanding environmental conditions.

The cornerstone to the success of our products is our no compromise **Fit and Forget - by Design** philosophy which is incorporated into every step of the product life cycle.

In a world consuming finite resources at an ever faster rate, **Fit and Forget - by Design** is the right environmental choice that also makes perfect economic sense to customers that consider the total life cycle Cost of Ownership.

For general comments about Hella's products please contact us on E-mail at techfeedback@hella.co.nz