

# INSTRUCTION SHEET

for: **Part No. 2PS 980 990-3xx**



## APPLICATION AND MOUNTING INSTRUCTIONS

### **DuraLED® SIDE MARKER LAMP (CATEGORY SM1)** **Multivolt (Suitable for 12 and 24 volt systems)**

#### Lens Marking and Installation Requirements

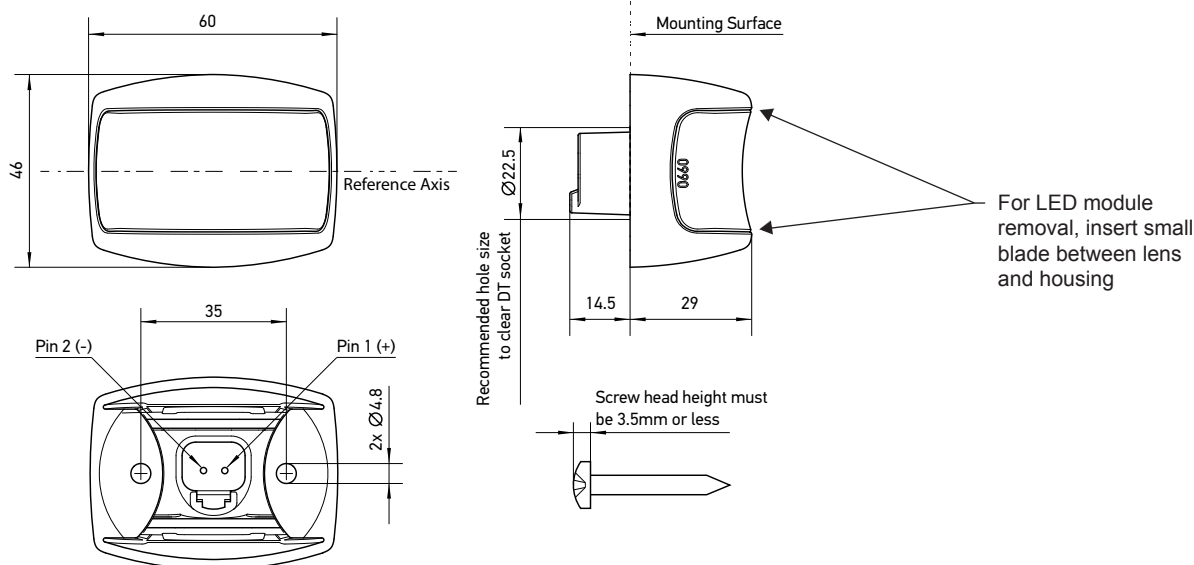
This Side Marker Lamp, identified by lens marking SM1 00 (E24) 5892, a grey backplate and the HELLA logo was manufactured to comply with ECE Regulation 91 for Side Marker Lamps (Category SM1).

- A tolerance of  $\pm 3^\circ$  applies on all mounting details.
- Lamp reference axis must be horizontal.
- Mounting surface must be vertical to the ground and be parallel to the vehicle longitudinal axis.
- Lamp must be visible between

Horizontal angle: From  $45^\circ$  to the rear and to  $45^\circ$  to the front.

Vertical angle:  $10^\circ$  above and  $10^\circ$  below the horizontal

Please refer to ECE Regulation 48 for more details.



#### Lamp Mounting Instructions

- Lamp should be mounted on a flat surface.
- The housing may be used as a template for the mounting holes. Do not mount the lamp where damage is likely to be sustained due to tie-downs and other securing devices.
- Drill two holes up to  $\varnothing 5$  mm at 35mm centres.
- A minimum hole size of  $\varnothing 22.5$  mm is required for the Deutsch 2-way socket in the backplate.
- Mount the housing using  $\varnothing 4$  mm screws or bolts with maximum head height of 3.5mm (not included).
- Prepare the lamp cable (not supplied) using the correct plug connector (Deutsch P/N DT06-2S), wedge (Deutsch P/N W2S) and terminals (Deutsch P/N 0462-201-16141).
- Push the LED module firmly into the housing until it snaps into position.

#### LED Module Instructions

The LED module is securely fastened to prevent dislodging in service, and removal would not normally be required.

If it becomes necessary to remove the module, insert a small blade on both sides of the LED module and the housing at the correct position and prise the module free from the housing (See diagram above).

Note: The LED module is fully sealed and has no serviceable components.

#### Wiring Colour Coding

The LED lamp is multi voltage capable for optimum brightness in 12 and 24 Volt systems.

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.

Pin No.	Connect to	Power Consumption
1	Positive (+)	< 1W
2	Earth (-)	-

**NB:** Lamp must be protected by a fuse rated at 2 amperes maximum.

**HELLA-New Zealand Limited, Auckland**



# Mounting instruction

## Anbauanweisung

03.02.2015

HELLA KGaA Hueck & Co.

Type: **2PS 980 990**

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Belongs to approval no.: **E24 5892**  
Gehört zu Gen.-Nr.:

Side Marker Lamp for Automobile  
Seitenmarkierungsleuchte für Kraftfahrzeuge

Light source(s): **2 LEDs**  
Leuchtquelle(n):

Test voltage: **13.5 V or / oder** Nominal voltage: **12 V or / oder** Nominal wattage: **< 1 W**  
Prüfspannung: **28 V** Nennspannung: **24 V**

✧ = Centre of reference in accordance with the ECE-Regulation-No. 91.  
Bezugspunkt nach der ECE-Regelung Nr. 7.  
✧ = Centre of reference for the definition for illuminating surface in accordance with the Council Directive  
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: Perpendicular to the car center line and parallel to the road.  
Bezugsachse: Senkrecht zur Fahrzeuglängsachse und parallel zur Fahrbahn.

The lamp can be mounted 180° round the reference axis.  
Die Leuchte darf auch 180° um die Bezugsachse eingebaut werden.

Mounting of the left hand unit is illustrated. Right hand unit to be mounted mirror inverted.  
Einbau des linken Gerätes dargestellt. Der Einbau des rechten Gerätes erfolgt spiegelbildlich.

The device must be mounted according to the enclosed fitting documents (e.g. sketch + Annex A).  
Der An- bzw. Einbau des Gerätes hat nach anliegenden An- bzw. Einbauunterlagen (z.B. Skizze und Anlage A) zu erfolgen.



# Mounting instruction

## Anbauanweisung

03.02.2015

HELLA KGaA Hueck & Co.

Type: **2PS 980 990**

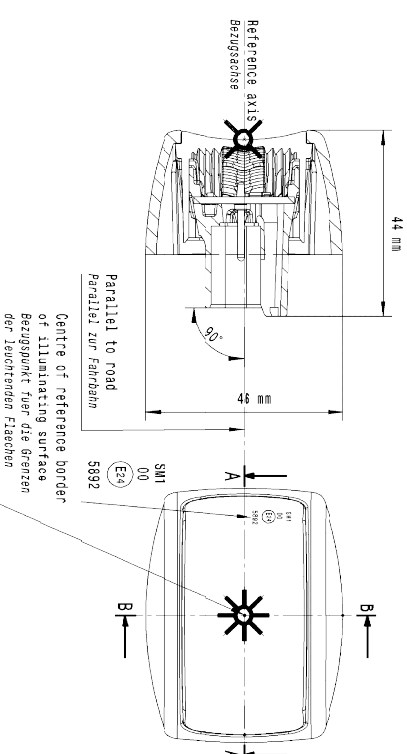
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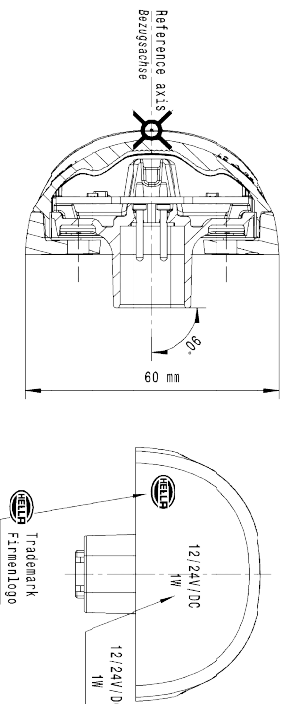
Side View (Section B-B)  
Ansicht von der Seite (Schnitt B-B)

Front View  
Ansicht von vorn



Top View (Section A-A)  
Ansicht von oben (Schnitt A-A)

View from below  
Ansicht von unten



The device must be mounted according to the enclosed fitting documents (e.g. sketch + Annex A).  
Der An- bzw. Einbau des Gerätes hat nach anliegenden An- bzw. Einbauunterlagen (z.B. Skizze und Anlage A) zu erfolgen.