


INSTRUCTION SHEET
for: **2XS 980 990-6xx**





APPLICATION AND MOUNTING INSTRUCTIONS

DuraLED® REAR END-OUTLINE MARKER LAMP / POSITION (SIDE) LAMP

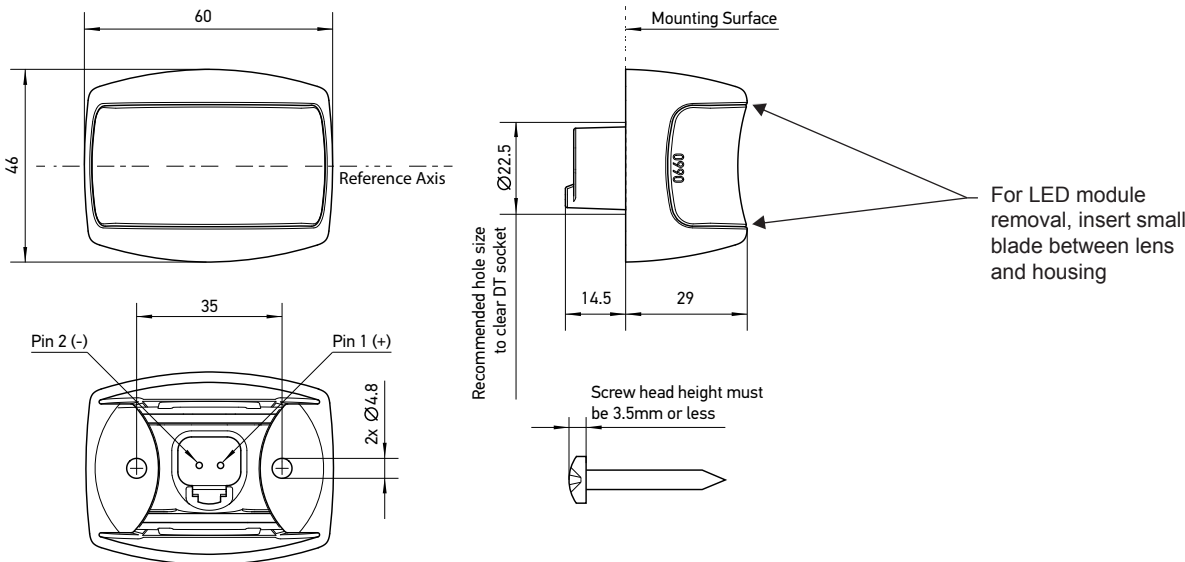
Multivolt (Suitable for 12 and 24 volt systems)

Lens Marking and Installation Requirements

This Lamp, identified by lens marking R1 02  5892, a black backplate and the  logo was manufactured to comply with ECE Regulation 7 for Rear Position (Side) / End-outline Marker Lamps.

- Lamp reference axis must be horizontal.
- Lamp mounting surface must be vertical to the ground and be square to the longitudinal axis of the vehicle.

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 Ø5 mm at 35mm centres.
- A minimum hole size of Ø22.5 mm is required for the Deutsch 2-way socket in the backplate.
- Mount the housing using Ø4 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.

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. Operation of this lamp using alternating current or modulated direct voltage will cause premature light failure. HELLA recommends connecting ADR or ECE certified Multivolt LED signal and marker lamps to a continuous (unmodulated) 12V or 24V power supply to ensure safe light operation.

HELLA-New Zealand Limited, Auckland

958 315-49 / 03.20

INSTRUCTION SHEET
for: **2XS 980 990-6xx**





APPLICATION AND MOUNTING INSTRUCTIONS

DuraLED® REAR END-OUTLINE MARKER LAMP / POSITION (SIDE) LAMP

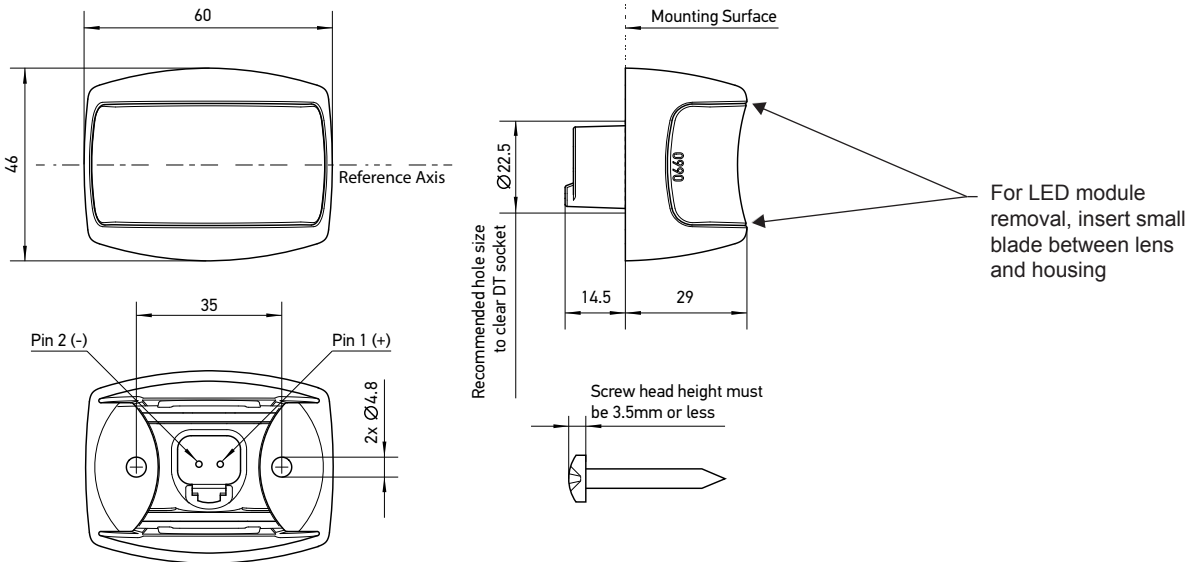
Multivolt (Suitable for 12 and 24 volt systems)

Lens Marking and Installation Requirements

This Lamp, identified by lens marking R1 02  5892, a black backplate and the  logo was manufactured to comply with ECE Regulation 7 for Rear Position (Side) / End-outline Marker Lamps.

- Lamp reference axis must be horizontal.
- Lamp mounting surface must be vertical to the ground and be square to the longitudinal axis of the vehicle.

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 Ø5 mm at 35mm centres.
- A minimum hole size of Ø22.5 mm is required for the Deutsch 2-way socket in the backplate.
- Mount the housing using Ø4 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.

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. Operation of this lamp using alternating current or modulated direct voltage will cause premature light failure. HELLA recommends connecting ADR or ECE certified Multivolt LED signal and marker lamps to a continuous (unmodulated) 12V or 24V power supply to ensure safe light operation.

HELLA-New Zealand Limited, Auckland

958 315-49 / 03.20



Mounting instruction

Anbauanweisung

Type: 2PF 980 990

HELLA Part-No.: (2PF 980 990)

HELLA Bestell-Nr.: (2XS 980 990)

L-DL-FSCT

09.02.2015

Page 1 / Seite 1

Belongs to approval no.: E24 5892

Gehört zu Gen.-Nr.:

Front Position- or Rear Position Lamp for Automobile
Vordere Begrenzungs- oder Schlussleuchte für Kraftfahrzeuge

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

Test voltage: 13.5 V or I oder 28.0 V
Prüfspannung:

Nominal voltage: 12.0 V or I oder 24.0 V
Nennspannung:

Nominal wattage: < 1W
Nennleistung:

Centre of reference in accordance with the ECE-Regulation-No. 7.
Bezugspunkt nach der ECE-Regelung Nr. 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 Anschluss-Schleife. 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 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.



Mounting instruction

Anbauanweisung

Type: 2PF 980 990

HELLA Part-No.: (2PF 980 990)

HELLA Bestell-Nr.: (2XS 980 990)

L-DL-FSCT

09.02.2015

Page 1 / Seite 1

Belongs to approval no.: E24 5892

Gehört zu Gen.-Nr.:

Front Position- or Rear Position Lamp for Automobile
Vordere Begrenzungs- oder Schlussleuchte für Kraftfahrzeuge

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

Test voltage: 13.5 V or I oder 28.0 V
Prüfspannung:

Nominal voltage: 12.0 V or I oder 24.0 V
Nennspannung:

Nominal wattage: < 1W
Nennleistung:

Centre of reference in accordance with the ECE-Regulation-No. 7.
Bezugspunkt nach der ECE-Regelung Nr. 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 Anschluss-Schleife. 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 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.



Mounting instruction

Anbauanweisung

Type: 2PF 980 990

HELLA Part-No.: (2PF 980 990)

HELLA Bestell-Nr.: (2XS 980 990)

L-DL-FSCT

09.02.2015

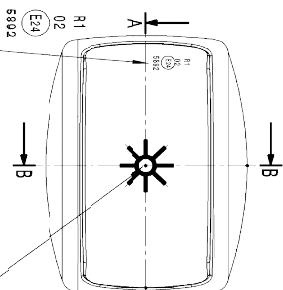
Page 3 / Seite 3

Belongs to approval no.: E24 5892

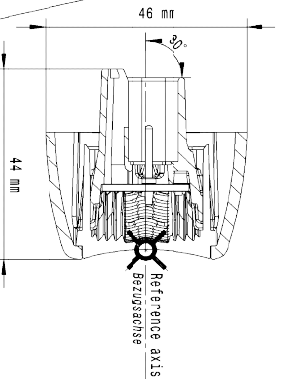
Gehört zu Gen.-Nr.:

Rear Position Lamp for Automobile
Schlussleuchte für Kraftfahrzeuge

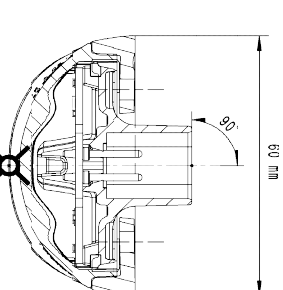
Front View
Ansicht von vorn



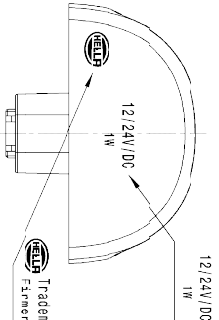
Side View (Section B-B)
Ansicht von der Seite (Schnitt B-B)



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 App. bzw. Einbau der Geräte hat nach anliegenden An- bzw. Einbauanweisungen (z.B. Skizze und Anlage A) zu erfolgen.



Mounting instruction

Anbauanweisung

Type: 2PF 980 990

HELLA Part-No.: (2PF 980 990)

HELLA Bestell-Nr.: (2XS 980 990)

L-DL-FSCT

09.02.2015

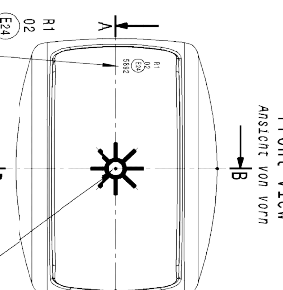
Page 3 / Seite 3

Belongs to approval no.: E24 5892

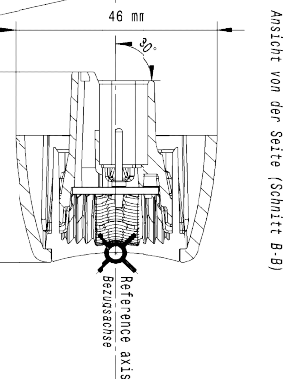
Gehört zu Gen.-Nr.:

Rear Position Lamp for Automobile
Schlussleuchte für Kraftfahrzeuge

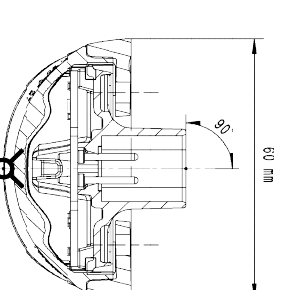
Front View
Ansicht von vorn



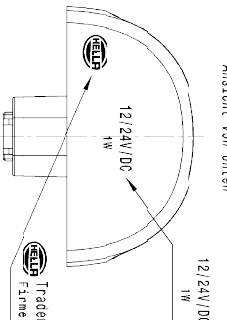
Side View (Section B-B)
Ansicht von der Seite (Schnitt B-B)



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 App. bzw. Einbau der Geräte hat nach anliegenden An- bzw. Einbauanweisungen (z.B. Skizze und Anlage A) zu erfolgen.

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