



INSTRUCTION SHEET
for: **2NE 980 889-xxx**

APPLICATION AND MOUNTING INSTRUCTIONS

LED REAR FOG LAMP
2NE 980 889-5xx: 12V DC Only

2NE 989 889-6xx: 24V DC Only

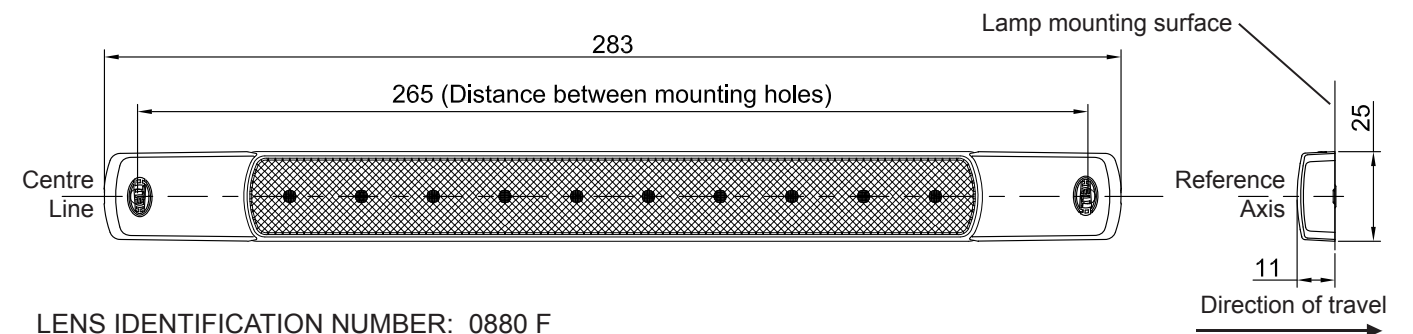
Lens Marking and Installation Requirements

This Rear Fog Lamp, identified by lens marking (E24) 0010 and the Hella logo was manufactured to comply with:

ECE Regulation No. 38 Category F1 for Rear Fog Lamps.

- A tolerance of +/-3° applies on all mounting details.
- Lamp mounting surface must be vertical to the ground, and at right angles to the longitudinal axis of the vehicle.
- One or two lamps are required.
- If one lamp is mounted it must be left of centre for right-hand traffic and right of centre for left-hand traffic.
- Lamps must not be mounted less than 250 mm and more than 1000 mm above the ground.
- Lamp must be visible from 25° inboard and 25° outboard, as well as from 5° above and 5° below the horizontal axis.
- Lamp is approved to be mounted horizontally and vertically.

Note: Please refer to ECE Regulation No. 48 for more details.



LENS IDENTIFICATION NUMBER: 0880 F

Product Contents

| Description | Quantity |
|---------------------------------------|----------|
| LED Rear Fog Lamp with 2.5 m cable | x1 |
| Screw Cap | x2 |
| Mounting Screw | x2 |
| Application and Mounting Instructions | x1 |

Hella-New Zealand Limited, Auckland



HELLA KG&A Hueck & Co.

Technical description
Technische Beschreibung

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Function(s): Rear Fog Lamp for Automobile.
Beantragte Funktion(en): Nebelschlussleuchte für Kraftfahrzeuge.
Shape of device: Rectangular, rounded
Form des Gerätes: Rechteckig, abgerundet
Remark: For left- or right hand, horizontal or vertical flush- or surface mounting
Bemerkung: Für links- oder rechtsseitigen, horizontalen oder vertikalen Ein- oder Aufbau

| Function | Material | Colour | Optical system | Light source |
|----------|----------|--------|------------------|--------------|
| Funktion | Material | Farbe | Optisches System | Lichtquelle |

| | | | | |
|-------------------------------------|--------------------|---------------------|--|---------|
| * Rear Fog Lamp Nebelschlussleuchte | Plastic Kunststoff | Colourless Glasklar | Outside: Pillow optic Ausßen: Kissenoptik Inside: Fresnel optic Innen: Fresneloptik | 10 LEDs |
|-------------------------------------|--------------------|---------------------|--|---------|

* **24V:** If one LED fails, the lamp will turn off.
Beim Ausfall einer LED wird die Leuchte abgeschaltet.

* **12V:** If one LED fails, the remaining LEDs fulfill the requirements.
Beim Ausfall einer LED, erfüllen die verbleibenden LEDs die Bedingungen.

Technical features:
Technische Merkmale:

Backplate, material: Plastic (PC, PMMA, ABS, ASA, PA ...)
Grundplatte, Material: Kunststoff (PC, PMMA, ABS, ASA, PA ...)
Backplate, surface: Untreated
Grundplatte, Oberfläche: Unbehandelt
Gasket between housing and outer lens: Fully sealed
Abdichtung zwischen Gehäuse und Lichtscheibe: Vollständig abgedichtet
Gasket between housing and car body: -
Abdichtung zwischen Gehäuse und Karosserie: -
Fastening the device to the automobile: With two screws
Befestigungsart der Leuchte an die Karosserie: Mit zwei Schrauben



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Mounting instruction
Anbauanweisung

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Belongs to approval no.: E24 0010
Gehört zu Gen.-Nr.:
Rear Fog Lamp for Automobile
Nebelschlussleuchte für Kraftfahrzeuge
Light source(s): 10 LEDs
Lichtquelle(n):

Test voltage: 13.5 V or / oder 28 V
Prüfspannung:

Nominal voltage: 12 V or / oder 24 V
Nennspannung:

Nominal wattage: 3 W
Nennleistung:

☒ = Centre of reference in accordance with the ECE-Regulation-No. 38.
Bezugspunkt nach der ECE-Regelung-Nr. 38.

✧ = 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 Fahrzeugängsachse und parallel zur Fahrbahn.

For left- or right hand, horizontal or vertical flush- or surface mounting:
Für links- oder rechtsseitigen, horizontalen oder vertikalen Ein- oder Aufbau.

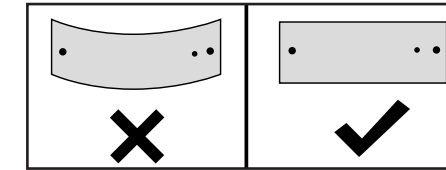
The Lamp can be rotated 180° around the reference axis.
Das Leuchte darf auch 180° gedreht um die Bezugsachse angebaut werden.



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Mounting Instructions

- Lamp must be mounted horizontally or vertically on a flat surface with no curvature.



- Drill two 3 mm Ø mounting holes at 265 mm centres through the mounting surface to allow fitment of the lamp. See previous page for correct positioning.
- If passing the cable through a hole, ensure there are no sharp edges to cut or chafe the cable. Alternatively, the cable can be routed through the end of the screw cap.
- Connect the wires as per the table below and test that the lamp functions correctly.
- Using the mounting screws tighten the lamp to the mounting surface (Maximum torque 1.5Nm).
- Fit screw caps.

Note: Do not overtighten the mounting screws in the plastic lens.
If it is necessary to remove the screw caps, lever them out with a small flat head screw driver.

Wiring Instructions

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.

| Wire Colour | Connect to | Power Consumption |
|-------------|--------------|-------------------|
| Black | Earth (-) | - |
| Red | Rear Fog (+) | 3 watts |

Note: Lamps must be protected by a fuse rated at 3 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, an indicator globe has failed or 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 LED signal and marker lamps to a continuous (unmodulated) 12V or 24V power supply to ensure safe light operation.

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



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Rear Fog Lamp for Automobile
Nebelschlussleuchte für Kraftfahrzeuge

Mounting instruction

Anbauanweisung

Type: **2NE 980 889**

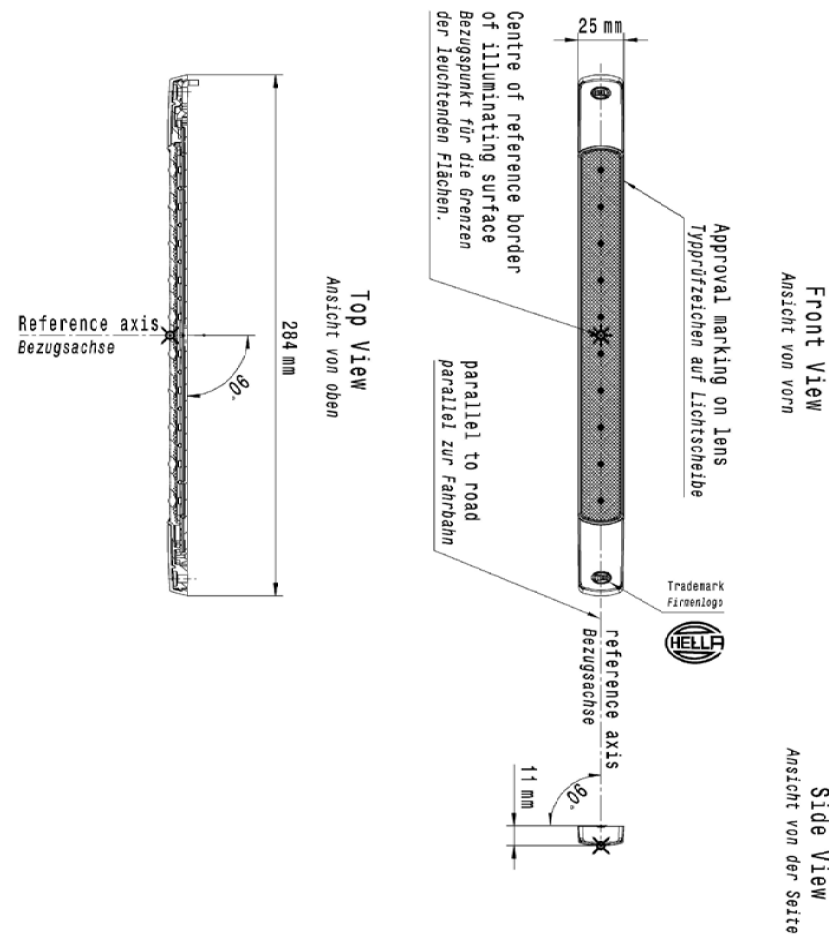
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