



INSTRUCTION SHEET
for: **Part No. 2BA 980 888-xxx / 2109V**

APPLICATION AND
MOUNTING INSTRUCTIONS

LED FRONT DIRECTION INDICATOR LAMP - VERTICAL MOUNT

2BA 980 888-5xx / 2109V: 12V DC Only
2BA 980 888-6xx / 2109V-24V: 24V DC Only

Lens Marking and Installation Requirements

This Front Direction Indicator Lamp identified by lens marking **E24** 5890 and the **HELLA** logo was manufactured to comply with:

ECE Regulation No. 6 for Front Direction Indicator Lamps (Category 1)

- A tolerance of +/-3° applies on all mounting details.
- Lamp module mounting surface must be vertical to the ground and facing forward.
- Lamp module reference axis must be parallel to the vehicle longitudinal axis.
- Lamp must be visible from 45° inboard and 80° outboard, as well as from 15° above and below the horizontal axis.
- Two lamp modules are required per vehicle.
- Lamp modules must not be mounted less than 350 mm and more than 1500 mm above the ground.
- Lamp modules 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 vertically with an allowable rotation of +/- 45° (see diagram over page).

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

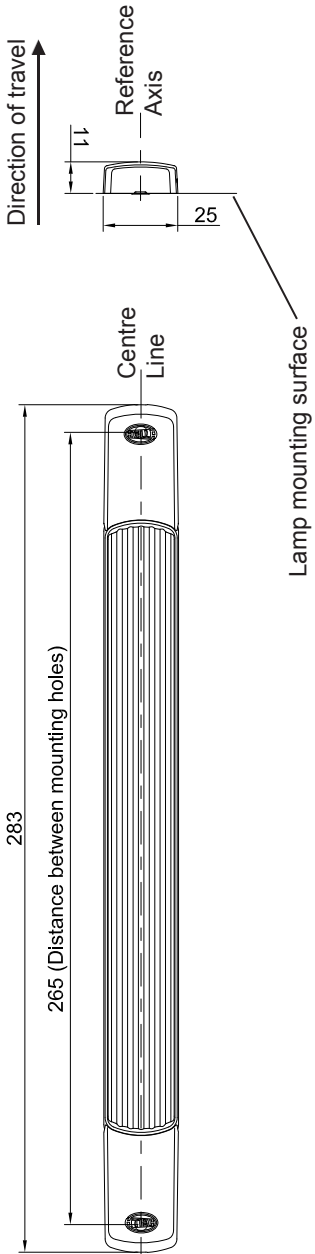
LENS IDENTIFICATION NUMBER: 0880 G

Product Contents

Description	2BA 980 888-5xx 2109V	2BA 980 888-6xx 2109V-24V
LED Front Direction Indicator Lamp with 2.5 m cable	x1	x1
Screw Cap	x2	x2
Mounting Screw	x2	x2
Application and Mounting Instructions	x1	x1

Hella-New Zealand Limited, Auckland.

General Dimensions
(in millimetres)



HELLA KGaA Hueck & Co.

Technical description
Technische Beschreibung
Type: **2BA 980 888**
Typ:

L-DL-FSCT Ke
31 485
20.01.2015
Page 1 / 1
Seite 1 / 1

Function(s): Front Direction Indicator Cat. 1 for Automobile
Beantworte Funktion(en): Vordere Fahrtrichtungsanzeiger für Kraftfahrzeuge
Shape of device: Rectangular, rounded
Form des Geräts: Rechteckig, abgerundet
Remark: For left- or right hand, vertical flush- or surface mounting
Bemerkung: Für links- oder rechtsseitigen, vertikalen Ein- oder Aufbau

Description of the lens(es):
Beschreibung der Abschluss-Scheibel(n):

Function Funktion	Material Material	Colour Farbe	Optical system Optisches System	Light source Lichtquelle
* Front Direction Indicator Vorderer Fahrtrichtungsanzeiger	Plastic Kunststoff	Colourless Glasklar	Outside: Rfite optic Aussen: Rfiteoptik Inside: Fresnel optic Innen: Fresneloptik	10 LEDs

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

Technical features:
Technische Merkmale:

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



HELLA KGaA Hueck & Co.

Mounting instruction
Anbauanweisung
Type: **2BA 980 888**
Typ:

L-DL-FSCT Ke
31 485
20.01.2015
Page 1 / 4
Seite 1 / 4

Belongs to approval no.: **E24 5890**
Gehört zu Gen.-Nr.:
Front Direction Indicator Cat. 1 for Automobile
Vorderer Fahrtrichtungsanzeiger Kat. 1 für Kraftfahrzeuge

Light source(s): 10 LEDs
Lichtquelle(n):

Test voltage: 13.5 V or / oder 28.0 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. 6.
Bezugspunkt nach der ECE-Regelung Nr. 6.

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.

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

Permissible rotation: a = 45° + 135°.
Zulässige Drehung: a = 45° + 135°.

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

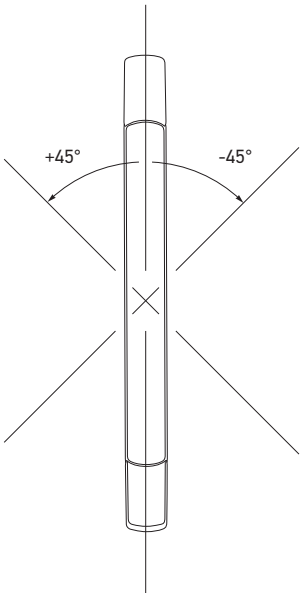


INSTRUCTION SHEET

for: **Part No. 2BA 980 888-xxx / 2109V**

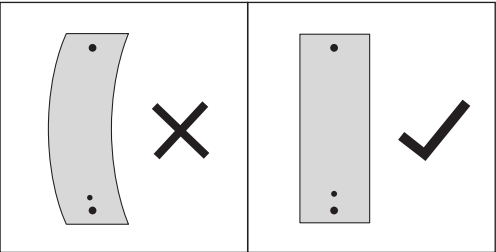
Mounting Tolerance

Vertical mount: +/- 45° rotation around lamp (and vehicle) axis.



Mounting Instructions

- Lamp must be mounted 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	Front Direction Indicator (+)	3 watts

Note: Lamp must be protected by a fuse rated at 3 amperes maximum.

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



Mounting instruction

Anbauanweisung

Type: 2BA 980 888

Typ:

L-DL-FSCT Ke
31 485
20.01.2015
Page 2 / 4
Seite 2 / 4

HELLA KG&A Hueck & Co.

Belongs to approval no.: E24 5890

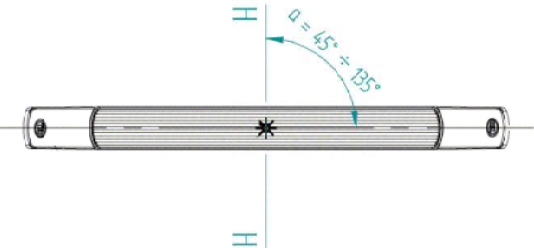
Gehört zu Gen.-Nr.:

Front Direction Indicator Cat. 1 for Automobile
Vorderer Fahrtrichtungsanzeiger Kat. 1 für Kraftfahrzeuge

Permissible installation angles for $\alpha = 45^\circ \div 135^\circ$
(rotation only within the same vertical plane around * possible)

Anbau zulässig für Installationswinkel $\alpha = 45^\circ \div 135^\circ$; Drehung um * nur innerhalb der gleichen vertikalen Ebene zulässig

Front View
Ansicht von vorne

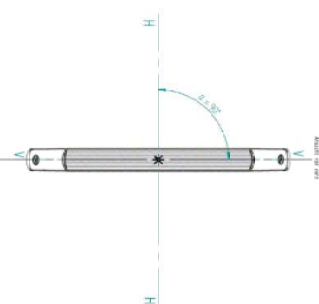


Examples Beispiele

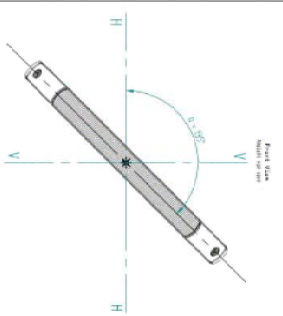
$\alpha = 45^\circ$



$\alpha = 90^\circ$



$\alpha = 135^\circ$



Mounting instruction

Anbauanweisung

Type: 2BA 980 888

Typ:

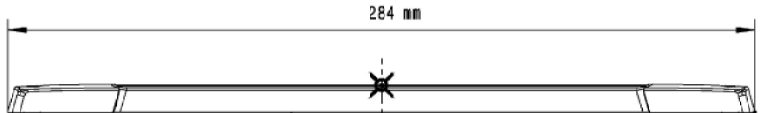
L-DL-FSCT Ke
31 485
20.01.2015
Page 3 / 4
Seite 3 / 4

HELLA KG&A Hueck & Co.

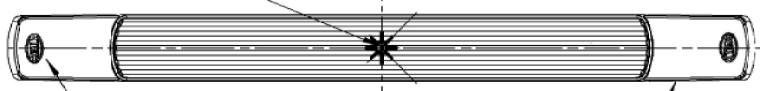
Belongs to approval no.: E24 5890

Gehört zu Gen.-Nr.:

Front Direction Indicator Cat. 1 for Automobile
Vorderer Fahrtrichtungsanzeiger Kat. 1 für Kraftfahrzeuge



reference axis
Bezugsachse
parallel to road
parallel zur Fahrbahn
Centre of reference border
of illuminating surface
Bezugspunkt für die Grenzen
der leuchtenden Flächen.



Top View
Ansicht von oben



Approval marking on lens
Typprüfzeichen auf Lichtscheibe