SHAPELINE
PRODUCT OVERVIEW

www.hella.com/shapeline
CUSTOMISED LIGHT DESIGN!

The variety and range of shapes and various combination options paired with a technically optimised product design make the Shapeline light series a true innovation in vehicle lighting.

Whether the front, side or rear of a vehicle, every vehicle series – whether big or small – can have a unique and, above all, consistent look using a customised configuration and arrangement of lamps. This allows us to meet the demands of vehicle manufacturers with lower numbers of manufactured vehicles.

Along with innovative technology and the familiar high quality of HELLA’s products, the variety of shapes of Shapeline lamps provide you with nearly infinite design freedom.

Design your light – with HELLA Shapeline!
DESIGN FREEDOM AT THE CLICK OF A MOUSE

The HELLA Shapeline online configuration tool turns you into a lighting designer: With a few clicks, make your own vehicle light design for the front, sides, and rear – and see the result directly after, as applied convincingly to a car outline.

www.hella.com/shapeline
The modular HELLA Shapeline product range provides a variety of different light functions that can be combined with each other individually. Here, all lamps are available in two different designs: The classic straight-line Shapeline Tech design and the dynamic curved Shapeline Style design.

Tech or Style: The HELLA Shapeline series provides design freedom for nearly any application and vehicle, and achieves a consistent light signature for your vehicle at the same time.
Position lamps
Technical data see page 19.

Reflex reflectors
Technical data see page 21.

Technical drawings

Position lamps
Technical data see page 19.

Reflex reflectors
Technical data see page 21.

Technical drawing
Direction indicators
Technical data see page 20 – 21.

Technical drawings

Daytime running lamps and position lamps
Technical data see page 21.

Technical drawing
Direction indicators
Technical data see page 25.

Reflex reflectors
Technical data see page 25.

Clearance lamps
Technical data see page 21.

Technical drawings
Side marker lamps
Technical data see page 24 – 25.

Technical drawing

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Side marker lamps
Technical data see page 22 – 23.

Technical drawing
Position lamps
Technical data see page 26.

Tail-stop lamps
Technical data see page 26 – 27.

Position lamps
Technical data see page 26.

Tail-stop lamps
Technical data see page 26.
Direction indicators
Technical data see page 28 – 29.

Technical drawings

Technical data see page 27.

Technical drawing
REAR

STYLE

Tail-stop-direction indicator lamps
Technical data see page 27.

Reverse lamps
Technical data see page 30.

TECH

Tail-stop-direction indicator lamps
Technical data see page 27.

Reverse lamps
Technical data see page 29.
Rear fog lamps
Technical data see page 31 – 32.

Rear fog lamps
Technical data see page 30 – 31.

Technical drawings
**Reflex reflectors**
Technical data see page 32.

**Warning lamps**
Technical data see page 32.

**Technical drawings**

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**TECH**

**Reflex reflectors**
Technical data see page 32.

**Technical drawing**
The HELLA Shapeline series allows vehicle manufacturers specialising in various fields of application to give their vehicle series a distinctive yet at the same time consistent look and feel by means of individualised lamp constellations.

On the following pages you will see examples of selected applications for a variety of target groups - ranging from agricultural vehicles through buses and caravans right up to trucks. These examples illustrate very clearly the wealth of possibilities opened up to you by Shapeline.

Whether it’s Shapeline Tech Design or Shapeline Style Design: every design line offers countless combination options, which enable creativity to run wild and free. Grab yourself some inspiration!
BUSES

E-CARS

EMERGENCY VEHICLES

AGRICULTURAL VEHICLES

FORKLIFTS

TRAILER

MOTORHOMES
APPLICATION EXAMPLES

SHAPELINE PRODUCTS ON THE VEHICLE

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SHAPELINE PRODUCTS ON THE VEHICLE

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SHAPELINE PRODUCTS ON THE VEHICLE

For the truck:

- Style: 2SB 013 399-011
  - Quantity: 1 x
- Style: 2SB 013 399-021
  - Quantity: 1 x
- Style: 2BA 013 332-011
  - Quantity: 1 x
- Style: 2BA 013 332-021
  - Quantity: 1 x

For the car:

- Style: 2ZR 013 401-011
  - Quantity: 1 x
- Style: 2ZR 013 401-021
  - Quantity: 1 x
TECHNICAL INFORMATION

From the connection type to energy consumption and voltage: On the following pages, you will find the most important detail information and technical data clearly structured in table form for each module.

**Electromagnetic compatibility EMC 5**
Electromagnetic compatibility (EMC) tested and EU type approval issued.

**ADR/GGVS certification**
Lamp approved for transport of dangerous goods according to the European Agreement for the International Carriage of Dangerous Goods by Road (ADR; in German, GGVS).

**Voltage range**
9 – 32 V
Defines the power supply of the lamp.

**Short-circuit protection integrated**
Protected against short circuit by means of an amp fuse.

**Protection class IP X9K**
Resistant to high-pressure cleaning

**SAE type approval**
Product has SAE type approval.

**Protection class IP 6K7**
International Protection (IP) in accordance with DIN 40060 part 9. The higher the protective class, the better the protection against penetrating media.
IP 67 maximum value
⇒ Completely sealed against dust and water.

**Polarity reversal protection included**
Even if the connecting cable is connected the wrong way round, there is still no danger for the electronics.

**Operating temperature**
- 40 ºC – + 60 ºC
Thermal management and an optimised housing design guarantee full functionality for all operating temperatures through product tests from -40°C to +60°C.

**Indicator failure check**
ISO 13207
Regulation in accordance with ECE-R48: The driver must be informed if the indicator function fails. To remain legally compliant, this requirement must also be fulfilled for LED lamps. This requirement is fulfilled by means of an integrated self-diagnostic unit on the PCB of the LED and an electrical pulse. Since the end of 2011, this HELLA failure check with a pulse has been an ISO Standard: ISO 13207.
### Design

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### Connectors and Wiring

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* Other fastening options available upon request
### Connectors and wiring

| Device number (Please add packaging index as the last number -1 Individual packaging or -7 Multiple-item packaging) | Maximum order quantity for packaging index 7 | Voltage range: 9V – 16V | Voltage range: 18V – 32V | Nominal voltage [V] | Current flow at 13.5V/28V (mA) | Number of LEDs | Power consumption at 13.5V/28V [W] | Dimensions (length / width / height in mm) | Operating temp.: -40 – +60°C | Mounting system (1= tape; 2= screw; 3= snap-ball-head bolt)* | Mounting tolerance (+/- angle [°]) | Hella specification HN67101 class 6.3 + 7.2 | Polarity reversal protection | Failure protection: current detection, 1 LED off = all off | Failure protection ISO13207 | Integrated short-circuit protection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Integrated 2-pin AMP SS | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 | 2880133806 |
| Integrated 3-pin AMP SS | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 | 2880133807 |

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TL = Daytime running light, PO = Position light
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* Other fastening options available upon request
### Failure protection ISO13207
- Detection, 1 LED off = all off
- Current
- Polarity reversal protection
- Class 6.3 + 7.2

### HELLA specification HN67101
- Mounting tolerance (+/- angle [°])

### Number of LEDs
- Voltage range: 18V – 32V
- Voltage range: 9V – 16V

### Multiple-item packaging
- Individual packaging or

### Side marker lamp
- 2PS 013 300-26
- 2PS 013 300-27
- 2PS 013 300-28
- 2PS 013 300-29
- 2PS 013 300-24
- 2PS 013 300-30

### AMPS SS 1300 mm
- EC straight
- 6.3 mm receptacles
- 2100 mm open ends

### QL 1300 mm
- open ends 900 mm
- Open ends 1500 mm

### Amphenol 500 mm
- EC angled
- AMP SS 450 mm
- EC straight 1300 mm
- ECE SM1
- SAE ECE SM1
- ECE SM2
- ECE SM1
- SAE ECE SM1
- ECE SM2
- ECE SM1
- SAE ECE SM1
- ECE SM2

### Side marker lamp with reflex reflector
- red vert.
<table>
<thead>
<tr>
<th>Design</th>
<th>Homologation</th>
<th>Side marker lamp yellow LH</th>
<th>Side marker lamp yellow RH</th>
<th>Side marker lamp yellow LH</th>
<th>Side marker lamp yellow RH</th>
<th>Side marker lamp yellow LH</th>
<th>Side marker lamp yellow RH</th>
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<td>Connectors and wiring</td>
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</table>

* Other fastening options available upon request
**Side marker lamp red LH**
- Rubber housing

**Side marker lamp red RH**
- Rubber housing

### Design
- Integrated short-circuit protection
- Failure protection: current
- Polarity reversal protection

### SAE
- Hellas specification HN67101

### Dimensions
- Operating temp.: -40 – 60°C
- Voltage range: 18V – 32V
- Minimum order quantity
  - 1 Individual packaging or
    - 0.55 / 1.3
    - 41 / 47
    - 12/24
- Side marker lamp
  - 6.3 mm receptacles 250 mm
    - 205/34/15.5
- Open ends 250 mm
  - 0.50
  - 38 / -38 / -38 / -38 / -38 / -38 / -

## Electrical Data
- Voltage: 13.5V/28V
- Current: [W] at 13.5V/28V [mA]

### Style
- Tech

**SAE**
- Tech

**ECE**
- Tech

### Tech
- Tech

**Style**
- Style

**SAE**
- Tech

**ECE**
- Tech

**SM2 (only for M 1 classes)** = luminous intensity min. 0.6 cd, max. 25 cd

**SM1 (for all vehicle classes)** = luminous intensity min. 4 cd, max. 25 cd
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<tr>
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<th>Number of LEDs</th>
<th>Dimensions (length / width / height in mm)</th>
<th>Power consumption at 12.5V/24V [W]</th>
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ST = stop light, TL = tail light, DI = direction indicator
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**Connectors and wiring**

| Device number (Please add packaging index as the last number -1 Individual packaging or -7 Multiple-item packaging) | 65 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| Voltage range: 9V – 16V | - | - | - | - | - | - | - | - | - | - | - | - |
| Voltage range: 18V – 32V | - | - | - | - | - | - | - | - | - | - | - | - |
| Nominal voltage [V] | - | - | - | - | - | - | - | - | - | - | - | - |
| Number of LEDs | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Power consumption at 13.5V/28V [W] | 2.3 / 5.1 | 2.3 / 5.1 | 2.3 / 5.1 | 2.3 / 5.1 | 2.3 / 5.1 | 2.3 / 5.1 | 2.3 / 5.1 | 2.3 / 5.1 | 2.3 / 5.1 | 2.3 / 5.1 | 2.3 / 5.1 | 2.3 / 5.1 |
| Dimensions (length / width / height in mm) | 27/64 / 7/8 / 3/4 | 27/64 / 7/8 / 3/4 | 27/64 / 7/8 / 3/4 | 27/64 / 7/8 / 3/4 | 27/64 / 7/8 / 3/4 | 27/64 / 7/8 / 3/4 | 27/64 / 7/8 / 3/4 | 27/64 / 7/8 / 3/4 | 27/64 / 7/8 / 3/4 | 27/64 / 7/8 / 3/4 | 27/64 / 7/8 / 3/4 | 27/64 / 7/8 / 3/4 |
| Operating temp.: -40 – +60°C | - | - | - | - | - | - | - | - | - | - | - | - |
| Mounting system (1=tape; 2= snap-ball-head bolt)* | Φ2 | Φ2 | Φ2 | Φ2 | Φ2 | Φ2 | Φ2 | Φ2 | Φ2 | Φ2 | Φ2 | Φ2 |
| Mounting tolerance (+/- angle [°]) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HELLA specification HN67101 class 6.3 + 7.2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Polarity reversal protection | - | - | - | - | - | - | - | - | - | - | - | - |
| Failure protection: current detection, 1 LED off = all off | - | - | - | - | - | - | - | - | - | - | - | - |
| Failure protection ISO13207 | - | - | - | - | - | - | - | - | - | - | - | - |
| Integrated short-circuit protection | - | - | - | - | - | - | - | - | - | - | - | - |

* Other fastening options available upon request
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<th>Current flow</th>
<th>Nominal voltage</th>
<th>Voltage range</th>
<th>Mounting system</th>
<th>Power consumption at 13.5V/28V [mA]</th>
<th>Voltage range</th>
<th>Mounting tolerance (+/- angle [°])</th>
<th>Homologation</th>
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<td>Integrated 3-pin AMP SS (with 2-pin function)</td>
<td>Integrated 3-pin AMP SS (with 2-pin function)</td>
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<td>227/03.345-13</td>
<td>227/03.345-14</td>
<td>227/03.401.01</td>
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<td>227/03.401.05</td>
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<td>3.1 / 3.6</td>
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<tr>
<td>Polarity reversal protection</td>
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<tr>
<td>Failure protection: current detection, 1 LED off = all off</td>
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* Other fastening options available upon request
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<td>Integrated 3-pin AMP SS (mit 2 Pin Funktion)</td>
<td>Integrated 3-pin AMP SS (mit 2 Pin Funktion)</td>
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**FL = Rear fog lamp**

**BL = Rear brake lamp**

**Rear fog lamp**

**Rear brake lamp**

**Serie**

**Tech Style**
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<tr>
<td>Power consumption at 13.5V/28V [W]</td>
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<td>Mounting system (1= tape; 2= screw; 3= snap-ball-head bolt)*</td>
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<td>Mounting tolerance (+/- angle [°])</td>
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<tr>
<td>Polarity reversal protection</td>
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</table>

* Other fastening options upon request
CONNECTOR OVERVIEW

The tables on the previous pages show you which connectors and which wiring belong to which Shapeline product. The following shows you what the different connector types look like.
ASSEMBLY INSTRUCTIONS FOR SIDE MARKER LAMPS

We offer you special installation angles for the simple assembly of the Shapeline side marker lamps on the trailer chassis. The installation angles are available either individually or in combination with a side marker lamp, and are compatible with screw ball pin or snapping ball pin fixing systems. Other combinations of side marker lamp with reflex reflector/wing are available upon request. More detailed information on the side marker lamps can be found on pages 22 - 25.

**OVERVIEW OF SIDE MARKER LAMPS INCLUDING INSTALLATION ANGLES:**

<table>
<thead>
<tr>
<th>Design</th>
<th>Homologation</th>
<th>Connectors and wiring</th>
<th>Part number</th>
<th>Fixing system</th>
<th>Installation angle</th>
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<td>EC straight 1300 mm</td>
<td>2PS 013 300-717</td>
<td>Screw fixing for installation angle</td>
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<td>QL 1300 mm</td>
<td>2PS 013 300-727</td>
<td>Screw fixing for installation angle</td>
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<td>Tech</td>
<td>ECE SM1 / SAE</td>
<td>6.3 mm receptacles 2100 mm</td>
<td>2PS 013 300-737</td>
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<td>ECE SM1 / SAE</td>
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<td>M5 screw fixing for the light</td>
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<td>Ball pin fixing for the light</td>
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Specifically for trailers!