



SHAPELINE
PRODUCT OVERVIEW

www.hella.com/shapeline

SHAPELINE
DESIGN YOUR LIGHT

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- Configurator 03
- Module overview 04 – 13
- Technical information 14 – 28









FORM FOLLOWS FUNCTION!

The variety and range of shapes and the various combination options paired with a technically optimized product design make the new Shapeline lamp 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 customized 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!

| | | |
|---|---|--|
|  Premium Design |  Customizable |  Robust |
|  Simple and clever |  ECE and SAE |  Multivoltage |

DESIGN FREEDOM AT THE CLICK OF A MOUSE

The HELLA Shapeline online configurator lets you be a light designer yourself: With only a few clicks, compile your fully customized lamp combination for the front, side and rear and view the result directly in connection with a meaningful and target-group specific vehicle sketch.

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MODULE OVERVIEW

The modular HELLA Shapeline product range provides a range 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.



FRONT

STYLE

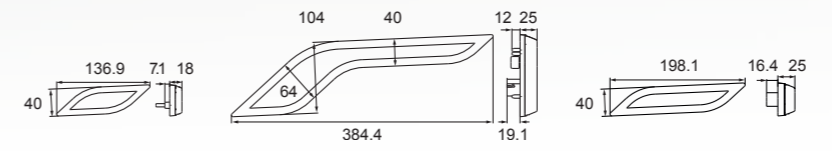


Position Lamps

Technical data on page 15.



Technical drawings



TECH

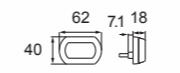


Position Lamps

Technical data on page 15.



Technical drawing

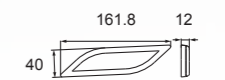


Reflex Reflectors

Technical data on page 17.



Technical drawing



Reflex Reflectors

Technical data on page 17.



Technical drawing



FRONT

STYLE

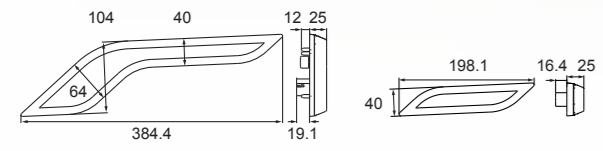


Direction Indicators

Technical data on pages 16 – 17.



Technical drawings



TECH

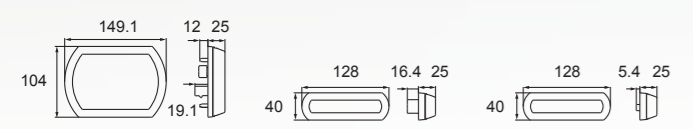


Direction Indicators

Technical data on page 16.



Technical drawings



SIDE

STYLE

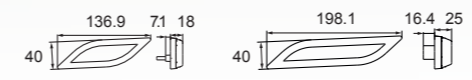


Direction Indicators

Technical data on page 21.



Technical drawings



TECH

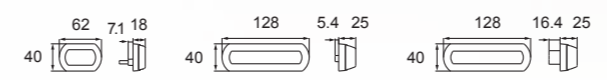


Direction Indicators

Technical data on page 21.



Technical drawings

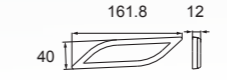


Reflex Reflectors

Technical data on page 21.



Technical drawing

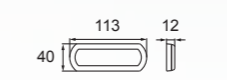


Reflex Reflectors

Technical data on page 21.



Technical drawing



Clearance Lamps

Technical data on page 17.



SIDE

STYLE



Side Marker Lamps
Technical data on pages 20 – 21.



Technical drawing



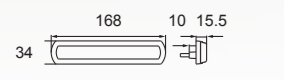
TECH



Side Marker Lamps
Technical data on pages 18 – 19.



Technical drawing



REAR

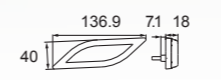
STYLE



Position Lamps
Technical data on page 22.



Technical drawing



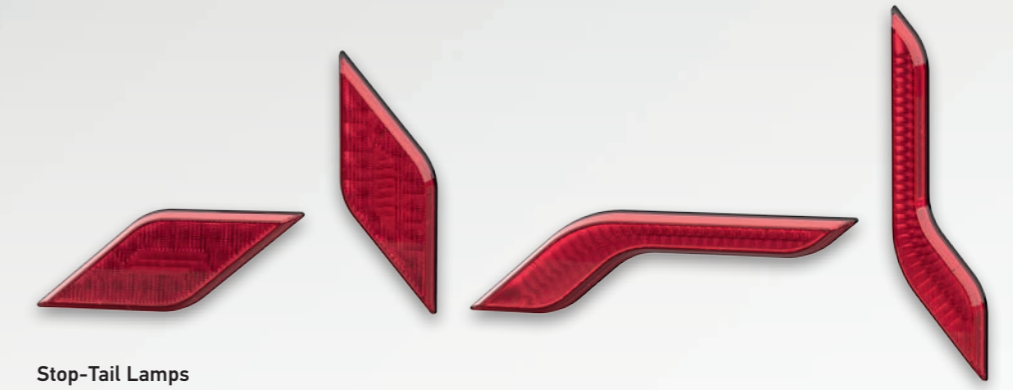
TECH



Position Lamps
Technical data on page 22.



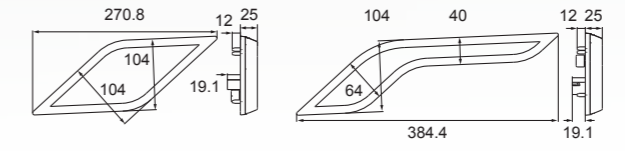
Technical drawing



Stop-Tail Lamps
Technical data on pages 22 – 23.



Technical drawings



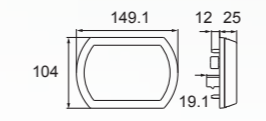
TECH



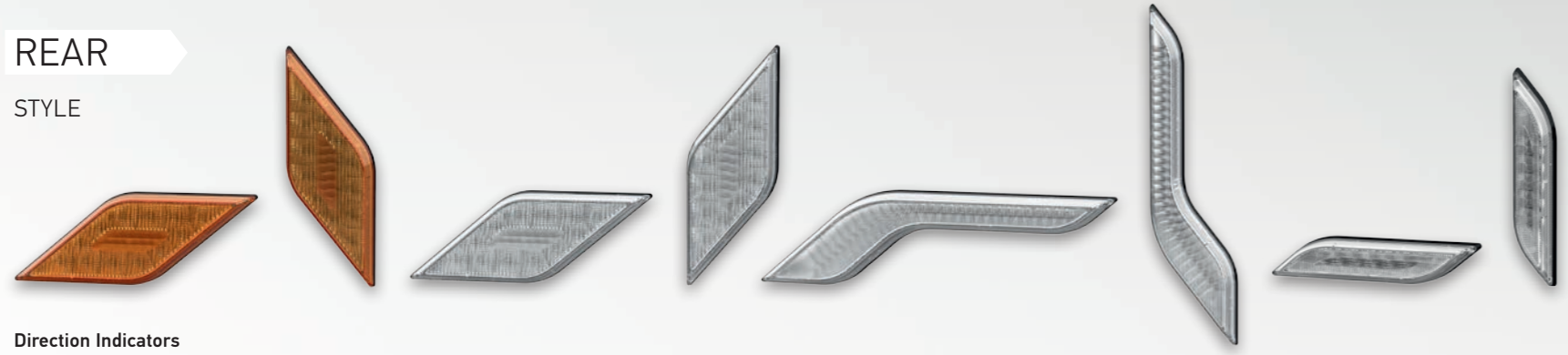
Stop-Tail Lamps
Technical data on page 22.



Technical drawing



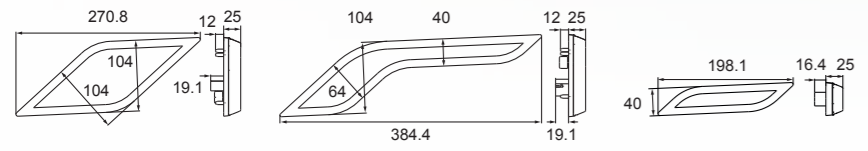
REAR STYLE



Direction Indicators
Technical data on pages 23 – 24.



Technical drawings



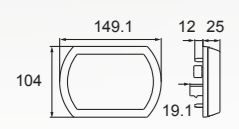
TECH



Direction Indicators
Technical data on page 23.



Technical drawing



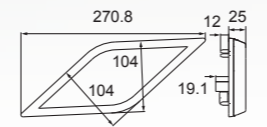
REAR STYLE



Stop-Tail-Direction Indicators
Technical data on page 23.



Technical drawing



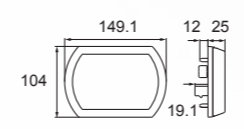
TECH



Stop-Tail-Direction Indicators
Technical data on page 23.



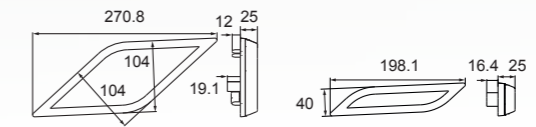
Technical drawing



Reverse Lamps
Technical data on pages 25 – 26.



Technical drawings



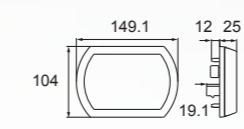
TECH



Reverse Lamps
Technical data on page 25.



Technical drawing



REAR

STYLE

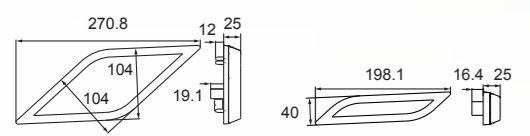


Rear Fog Lamps

Technical data on pages 26 – 27.



Technical drawings



TECH

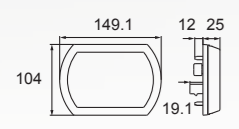


Rear Fog Lamps

Technical data on page 26.



Technical drawing



REAR

STYLE

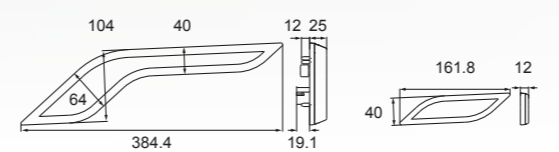


Reflex Reflectors

Technical data on page 28.



Technical drawings

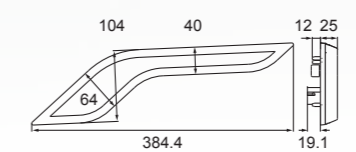


Warning lamps

Technical data on page 28.



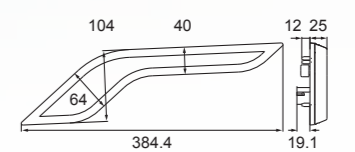
Technical drawing



Design Element

Technical data on page 28.

Technical drawing



TECH

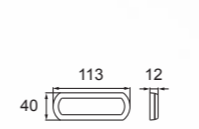


Reflex Reflectors

Technical data on page 27.




























Technical drawing



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 |  Thermal management active |  Operating voltage 9 – 32 V |  Integrated short-circuit protection |
|  Protection class IP X9K |  Protection class IP 6K7 |  Type approval SAE |  Type approval ECE |
|  Operating temperature range -40 °C – +60 °C |  Electronics active |  AECQ - components qualified according to automotive standard |  ADR/GGVs-Approval for transport of dangerous goods |
|  Reverse polarity protection |  Indicator failure check ISO 13207 | | |

| | | | | | | | | | | | |
|---------------------|---|---|---|---|---|--|--|---|---|--|--|
| |  |  |  |  |  |  |  |  |  |  |  |
| Design | Tech | Style | Style | Style | Style | Style | Style | Style | Style | Style | Style |
| Homologation | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE |

| | | | | | | | | | | | | | | | | | |
|--|----------------------------|---------------------|----------------------|---------------|---------------------|-----------------|---------------|---------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Cables & connectors | 6,3 mm Steckhülsen 2100 mm | offene Enden 250 mm | offene Enden 5000 mm | AMP SS 250 mm | offene Enden 250 mm | Amphenol 250 mm | AMP SS 250 mm | offene Enden 250 mm | Amphenol 250 mm | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. |
| Device number (Packaging index -1 Individual packaging or -7 Multiple-item packaging) | 2PF 013323-21 | 2PF 013323-22 | 2PF 013323-20 | 2PF 013324-01 | 2PF 013324-03 | 2PF 013324-05 | 2PF 013324-02 | 2PF 013324-04 | 2PF 013324-06 | 2PF 013325-01 | 2PF 013325-02 | 2PF 013325-03 | 2PF 013325-04 | 2PF 013326-01 | 2PF 013326-02 | 2PF 013326-03 | 2PF 013326-04 |
| Voltage range: 9 V – 16 V | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Voltage range: 18 V – 32 V | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Nominal voltage [V] | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 |
| Current flow at 13.5V / 28V [mA] | 26 / 32 | 26 / 32 | 26 / 32 | 26 / 32 | 26 / 32 | 26 / 32 | 26 / 32 | 26 / 32 | 26 / 32 | 315 / 340 | 315 / 340 | 315 / 340 | 315 / 340 | 65 / 75 | 65 / 75 | 65 / 75 | 65 / 75 |
| Number of LEDs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 30 | 30 | 30 | 30 | 6 | 6 | 6 | 6 |
| Power consumption at 13.5V / 28V [W] | 0.35 / 0.9 | 0.35 / 0.9 | 0.35 / 0.9 | 0.35 / 0.9 | 0.35 / 0.9 | 0.35 / 0.9 | 0.35 / 0.9 | 0.35 / 0.9 | 0.35 / 0.9 | 5.5 | 5.5 | 5.5 | 5.5 | 0.88 / 2.1 | 0.88 / 2.1 | 0.88 / 2.1 | 0.88 / 2.1 |
| Dimensions (length/width/height) [mm] | 62/40/18 | 62/40/18 | 62/40/18 | 139,6/40/18 | 139,6/40/18 | 139,6/40/18 | 139,6/40/18 | 139,6/40/18 | 139,6/40/18 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 |
| Operating temp.: -40 – +60 °C | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Mounting system (1=tape; 2=screw; 3=snap) * | 1* | 1* | 1* | 1* | 1* | 1* | 1* | 1* | 1* | 2* | 2* | 2* | 2* | 1* | 1* | 1* | 1* |
| Mounting tolerance (+/- angle [°]) | 0 | 0 | 0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 0 | 0 | 6 | 6 | 0 | 0 |
| HELLA specification HN67101 class 6.3 + 7.2 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Polarity protection | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Failure protection: current detection, 1 LED off = all off | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Failure protection: ISO13207 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Integrated short-circuit protection | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

* Additional mounting systems on request

| | | | | | | | | | | | |
|---------------------|---------|---------|-------|-------|-------|-------|---------|---------|----------|---------|------|
| | | | | | | | | | | | |
| Design | Style | Style | Style | Style | Style | Style | Style | Style | Tech | Tech | Tech |
| Homologation | ECE/SAE | ECE/SAE | ECE | ECE | ECE | ECE | ECE/SAE | ECE/SAE | SAE>2032 | ECE/SAE | ECE |

| | | | | | | | | | | | |
|---------------------|--------------|--------------|-------|-------|--------------|--------------|---------|---------|---------|------|------|
| | | | | | | | | | | | |
| Design | Style | Style | Style | Style | Style | Style | Tech | Style | Style | Tech | Tech |
| Homologation | ECE/SAE<2032 | ECE/SAE<2032 | ECE | ECE | ECE/SAE<2032 | ECE/SAE<2032 | ECE/SAE | ECE/SAE | ECE/SAE | ECE | SAE |

| | | | | | | | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------|-----------------------|
| Cables & connectors | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP 2-pol. | Integrated AMP 2-pol. |
| Device number (Packaging index -1 Individual packaging or -7 Multiple-item packaging) | 2BA 013334-01 | 2BA 013334-02 | 2BA 013334-05 | 2BA 013334-06 | 2BA 013334-08 | 2BA 013334-07 | 2BA 013334-03 | 2BA 013334-04 | 2BA 013330-01 | 2BA 013398-00 | 2BA 013398-01 |
| Voltage range: 9V – 16V | • | • | • | • | • | • | • | • | • | • | • |
| Voltage range: 18V – 32V | • | • | • | • | • | • | • | • | • | • | • |
| Nominal voltage [V] | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 |
| Current flow at 13.5V / 28V [mA] | 407 / 197 | 407 / 197 | 407 / 197 | 407 / 197 | 407 / 197 | 407 / 197 | 407 / 197 | 407 / 197 | 408 / 240 | 217 / 105 | 217 / 105 |
| Number of LEDs | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 6 | 6 |
| Power consumption at 13.5V / 28V [W] | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 / 6.7 | 2.93 | 2.93 |
| Dimensions (length/width/height) [mm] | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 149,2/104/25 | 128/40/25 | 128/40/25 |
| Operating temp.: -40 – +60 °C | • | • | • | • | • | • | • | • | • | • | • |
| Mounting system (1=tape; 2=screw; 3=snap)* | 2* | 2* | 2* | 2* | 2* | 2* | 2* | 2* | 2* | 1* | 1* |
| Mounting tolerance (+/- angle [°]) | 6 | 6 | 6 | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 0 |
| HELLA specification HN67101 class 6.3 + 7.2 | • | • | • | • | • | • | • | • | • | • | • |
| Polarity protection | • | • | • | • | • | • | • | • | • | • | • |
| Failure protection: current detection, 1 LED off = all off | • | • | • | • | • | • | • | • | • | • | • |
| Failure protection: ISO13207 | • | • | • | • | • | • | • | • | • | • | • |
| Integrated short-circuit protection | • | • | • | • | • | • | • | • | • | • | • |

| | | | | | | | | | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|-----------------------|------------------|-----------------------|---------------|---------------|---------------|
| Cables & connectors | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Open ends 500 mm | Integrated AMP 2-pol. | Open ends 500 mm | Integrated AMP 2-pol. | | | |
| Device number (Packaging index -1 Individual packaging or -7 Multiple-item packaging) | 2BA 013335-03 | 2BA 013335-04 | 2BA 013335-01 | 2BA 013335-02 | 2BA 013335-05 | 2BA 013335-06 | 8RA 013403-01 | 2RA 013347-01 | 2RA 013347-02 | 25X 013327-01 | 25X 013327-00 | 25X 013327-11 | 25X 013327-10 |
| Voltage range: 9V – 16V | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Voltage range: 18V – 32V | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Nominal voltage [V] | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 |
| Current flow at 13.5V / 28V [mA] | 217 / 105 | 217 / 105 | 217 / 105 | 217 / 105 | 217 / 105 | 217 / 105 | | | | | | | |
| Number of LEDs | 6 | 6 | 6 | 6 | 6 | 6 | | | | | | | |
| Power consumption at 13.5V / 28V [W] | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | | | | | | | |
| Dimensions (length/width/height) [mm] | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 113/40/12 | 163,5/40/12 | 163,5/40/12 | | | | |
| Operating temp.: -40 – +60 °C | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Mounting system (1=tape; 2=screw; 3=snap)* | 1* | 1* | 1* | 1* | 1* | 1* | 1 | 1 | 1 | 1* | 1* | 1* | 1* |
| Mounting tolerance (+/- angle [°]) | 6 | 6 | 6 | 6 | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 0 |
| HELLA specification HN67101 class 6.3 + 7.2 | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Polarity protection | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Failure protection: current detection, 1 LED off = all off | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Failure protection: ISO13207 | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Integrated short-circuit protection | • | • | • | • | • | • | • | • | • | • | • | • | • |

* Additional mounting systems on request

| | | | | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | | |
| Design | Style | Style | Style | Style | Style | Style | Style | Style | Style | Style | Style |
| Homologation | ECE | ECE | ECE | ECE | ECE | ECE | ECE | ECE | ECE | ECE | ECE |

| | | | | | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|---------|
| | | | | | | | | | | | | |
| Design | Style | Style | Style | Style | Style | Style | Style | Tech | Style | Style | Style | Style |
| Homologation | ECE | ECE | ECE | ECE | ECE | ECE | ECE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE |

| | | | | | | | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Cables & connectors | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. |
| Device number (Packaging index -1 Individual packaging or -7 Multiple-item packaging) | 2BA 013331-01 | 2BA 013331-02 | 2BA 013331-03 | 2BA 013331-04 | 2BA 013333-01 | 2BA 013333-02 | 2BA 013333-08 | 2BA 013333-06 | 2BA 013333-05 | 2BA 013333-07 | 2BA 013333-03 |
| Voltage range: 9V – 16V | • | • | • | • | • | • | • | • | • | • | • |
| Voltage range: 18V – 32V | • | • | • | • | • | • | • | • | • | • | • |
| Nominal voltage [V] | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 |
| Current flow at 13.5V / 28V [mA] | 171 / 183 | 171 / 183 | 171 / 183 | 171 / 183 | 285 / 315 | 285 / 315 | 285 / 315 | 285 / 315 | 285 / 315 | 285 / 315 | 285 / 315 |
| Number of LEDs | 12 | 12 | 12 | 12 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Power consumption at 13.5V / 28V [W] | 2.3 / 5.1 | 2.3 / 5.1 | 2.3 / 5.1 | 2.3 / 5.1 | 3.9 / 8 | 3.9 / 8 | 3.9 / 8 | 3.9 / 8 | 3.9 / 8 | 3.9 / 8 | 3.9 / 8 |
| Dimensions (length/width/height) [mm] | 275,4/104/25 | 275,4/104/25 | 275,4/104/25 | 275,4/104/25 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 |
| Operating temp.: -40 – +60 °C | • | • | • | • | • | • | • | • | • | • | • |
| Mounting system (1=tape; 2=screw; 3=snap)* | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mounting tolerance (+/- angle [°]) | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 6 | 6 | 6 | 0 |
| HELLA specification HN67101 class 6.3 + 7.2 | • | • | • | • | • | • | • | • | • | • | • |
| Polarity protection | • | • | • | • | • | • | • | • | • | • | • |
| Failure protection: current detection, 1 LED off = all off | • | • | • | • | • | • | • | • | • | • | • |
| Failure protection: ISO13207 | • | • | • | • | • | • | • | • | • | • | • |
| Integrated short-circuit protection | • | • | • | • | • | • | • | • | • | • | • |

| | | | | | | | | | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Cables & connectors | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 3-pol. | Integrated AMP SS 3-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. |
| Device number (Packaging index -1 Individual packaging or -7 Multiple-item packaging) | 2BA 013333-04 | 2BA 013332-03 | 2BA 013332-04 | 2BA 013332-01 | 2BA 013332-02 | 2BA 013332-05 | 2BA 013332-06 | ZZR 013344-10 | ZZR 013345-11 | ZZR 013345-12 | ZZR 013345-13 | ZZR 013345-14 | |
| Voltage range: 9V – 16V | • | • | • | • | • | • | • | • | • | • | • | • | |
| Voltage range: 18V – 32V | • | • | • | • | • | • | • | • | • | • | • | • | |
| Nominal voltage [V] | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | |
| Current flow at 13.5V / 28V [mA] | 285 / 315 | 130 / 90 | 130 / 90 | 130 / 90 | 130 / 90 | 130 / 90 | 130 / 90 | 230 / 130 | 230 / 130 | 230 / 130 | 230 / 130 | 230 / 130 | |
| Number of LEDs | 30 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | |
| Power consumption at 13.5V / 28V [W] | 3.9 / 8 | 1.8 / 2.5 | 1.8 / 2.5 | 1.8 / 2.5 | 1.8 / 2.5 | 1.8 / 2.5 | 1.8 / 2.5 | 3.1 / 3.6 | 3.1 / 3.6 | 3.1 / 3.6 | 3.1 / 3.6 | 3.1 / 3.6 | |
| Dimensions (length/width/height) [mm] | 389,1/104/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 149,2/104/25 | 275,4/104/25 | 275,4/104/25 | 275,4/104/25 | 275,4/104/25 | |
| Operating temp.: -40 – +60 °C | • | • | • | • | • | • | • | • | • | • | • | • | |
| Mounting system (1=tape; 2=screw; 3=snap)* | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | |
| Mounting tolerance (+/- angle [°]) | 0 | 6 | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| HELLA specification HN67101 class 6.3 + 7.2 | • | • | • | • | • | • | • | • | • | • | • | • | |
| Polarity protection | • | • | • | • | • | • | • | • | • | • | • | • | |
| Failure protection: current detection, 1 LED off = all off | • | • | • | • | • | • | • | • | • | • | • | • | |
| Failure protection: ISO13207 | • | • | • | • | • | • | • | • | • | • | • | • | |
| Integrated short-circuit protection | • | • | • | • | • | • | • | • | • | • | • | • | |

* Additional mounting systems on request

| | | | | | | | | | | | |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | | | | | | | | | |
| Design | Style | Style | Style | Style | Style | Style | Tech | Tech | Style | Style | Style |
| Homologation | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE |

| | | | | | | | | | | | | |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | | | | | | | | | | |
| Design | Style | Style | Style | Style | Style | Style | Style | Style | Style | Style | Style | Tech |
| Homologation | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE |

| | | | | | | | | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Cables & connectors | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 3-pol. | Integrated AMP SS 3-pol. | Integrated AMP SS 3-pol. | Integrated AMP SS 3-pol. | Integrated AMP SS 3-pol. | Integrated AMP SS 3-pol. |
| Device number (Packaging index -1 Individual packaging or -7 Multiple-item packaging) | ZZR 013401-01 | ZZR 013401-02 | ZZR 013401-05 | ZZR 013401-06 | ZZR 013401-03 | ZZR 013401-04 | 2NE 013344-00 | 2NR 013344-20 | 2NE 013345-01 | 2NE 013345-02 | 2NE 013345-03 | 2NE 013403-00 |
| Voltage range: 9V – 16V | • | • | • | • | • | • | • | • | • | • | • | • |
| Voltage range: 18V – 32V | • | • | • | • | • | • | • | • | • | • | • | • |
| Nominal voltage [V] | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 |
| Current flow at 13.5V / 28V [mA] | 243 / 117 | 243 / 117 | 243 / 117 | 243 / 117 | 243 / 117 | 243 / 117 | 171 / 100 | FL: 171 / 100 RV: 230 / 130 | 171 / 100 | 171 / 100 | 171 / 100 | 171 / 100 |
| Number of LEDs | 6 | 6 | 6 | 6 | 6 | 6 | 12 | 12 / 4 | 12 | 12 | 12 | 12 |
| Power consumption at 13.5V / 28V [W] | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.3 / 2.8 | FL: 2.3 / 2.8 RV: 3.1 / 3.6 | 2.3 / 2.8 | 2.3 / 2.8 | 2.3 / 2.8 | 2.3 / 2.8 |
| Dimensions (length/width/height) [mm] | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 149,2/104/25 | 149,2/104/25 | 275,4/104/25 | 275,4/104/25 | 275,4/104/25 | 275,4/104/25 |
| Operating temp.: -40 – +60 °C | • | • | • | • | • | • | • | • | • | • | • | • |
| Mounting system (1=tape; 2=screw; 3=snap)* | 1* | 1* | 1* | 1* | 1* | 1* | 2* | 2* | 2* | 2* | 2* | 2* |
| Mounting tolerance (+/- angle [°]) | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HELLA specification HN67101 class 6.3 + 7.2 | • | • | • | • | • | • | • | • | • | • | • | • |
| Polarity protection | • | • | • | • | • | • | • | • | • | • | • | • |
| Failure protection: current detection, 1 LED off = all off | • | • | • | • | • | • | • | • | • | • | • | • |
| Failure protection: ISO13207 | • | • | • | • | • | • | • | • | • | • | • | • |
| Integrated short-circuit protection | • | • | • | • | • | • | • | • | • | • | • | • |

* Additional mounting systems on request

| | | | | | | | | | | | | |
|--|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Cables & connectors | Integrated AMP SS 2-pol. | Integrated AMP SS 3-pol. | Integrated AMP SS 3-pol. | Integrated AMP SS 3-pol. | Integrated AMP SS 3-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. |
| Device number (Packaging index -1 Individual packaging or -7 Multiple-item packaging) | 2NE 013345-04 | 2NR 013345-21 | 2NR 013345-22 | 2NR 013345-23 | 2NR 013345-24 | 2NE 013343-01 | 2NE 013343-02 | 2NE 013343-05 | 2NE 013343-06 | 2NE 013343-03 | 2NE 013343-04 | 8RA 013403-00 |
| Voltage range: 9V – 16V | • | • | • | • | • | • | • | • | • | • | • | • |
| Voltage range: 18V – 32V | • | • | • | • | • | • | • | • | • | • | • | • |
| Nominal voltage [V] | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 |
| Current flow at 13.5V / 28V [mA] | 171 / 100 | FL: 171 / 100 RV: 230 / 130 | FL: 171 / 100 RV: 230 / 130 | FL: 171 / 100 RV: 230 / 130 | FL: 171 / 100 RV: 230 / 130 | 155 / 74 | 155 / 74 | 155 / 74 | 155 / 74 | 155 / 74 | 155 / 74 | 155 / 74 |
| Number of LEDs | 12 | 12 / 4 | 12 / 4 | 12 / 4 | 12 / 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Power consumption at 13.5V / 28V [W] | 2.3 / 2.8 | FL: 2.3 / 2.8 RV: 3.1 / 3.6 | FL: 2.3 / 2.8 RV: 3.1 / 3.6 | FL: 2.3 / 2.8 RV: 3.1 / 3.6 | FL: 2.3 / 2.8 RV: 3.1 / 3.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| Dimensions (length/width/height) [mm] | 275,4/104/25 | 275,4/104/25 | 275,4/104/25 | 275,4/104/25 | 275,4/104/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 199,8/40/25 | 113,40/12 |
| Operating temp.: -40 – +60 °C | • | • | • | • | • | • | • | • | • | • | • | • |
| Mounting system (1=tape; 2=screw; 3=snap)* | 2* | 2* | 2* | 2* | 2* | 1* | 1* | 1* | 1* | 1* | 1* | 1 |
| Mounting tolerance (+/- angle [°]) | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 0 |
| HELLA specification HN67101 class 6.3 + 7.2 | • | • | • | • | • | • | • | • | • | • | • | • |
| Polarity protection | • | • | • | • | • | • | • | • | • | • | • | • |
| Failure protection: current detection, 1 LED off = all off | • | • | • | • | • | • | • | • | • | • | • | • |
| Failure protection: ISO13207 | • | • | • | • | • | • | • | • | • | • | • | • |
| Integrated short-circuit protection | • | • | • | • | • | • | • | • | • | • | • | • |

FL = Fog light, RV = Reverse light

| | | | | | | | | |
|--------------|-------------------------------|-------------------------------|--------------------------|--------------------------|------------------------|------------------------|------------------------|------------------------|
| | | | | | | | | |
| | Reflex Reflector Wing rear LH | Reflex Reflector Wing rear RH | Reflex Reflector rear LH | Reflex Reflector rear RH | Warning Lamp Yellow LH | Warning Lamp Yellow RH | Design Element Wing LH | Design Element Wing RH |
| Design | Style | Style | Style | Style | Style | Style | Style | Style |
| Homologation | ECE/SAE | ECE/SAE | ECE/SAE | ECE/SAE | SAE | SAE | | |

Cables & connectors

| | | | | | | | | |
|---|---------------|---------------|---------------|---------------|--------------------------|--------------------------|---------------|---------------|
| | • | • | • | • | Integrated AMP SS 2-pol. | Integrated AMP SS 2-pol. | no connector | no connector |
| Device number (Packaging index -1 Individual packaging or -7 Multiple-item packaging) | 8RA 013402-01 | 8RA 013402-02 | 2RA 013347-05 | 2RA 013347-06 | 2XW 013493-01 | 2XW 013493-02 | 2XX 013349-01 | 2XX 013349-02 |
| Voltage range: 9V – 16V | | | | | • | • | | |
| Voltage range: 18V – 32V | | | | | • | • | | |
| Nominal voltage [V] | | | | | | | | |
| Current flow at 13.5V / 28V [mA] | | | | | | | 407 / 197 | 407 / 197 |
| Number of LEDs | | | | | | | | |
| Power consumption at 13.5V / 28V [W] | | | | | | | 5.5 | 5.5 |
| Dimensions (length/width/height) [mm] | 389,1/104/25 | 389,1/104/25 | 163,5/40/12 | 163,5/40/12 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 | 389,1/104/25 |
| Operating temp.: -40 – +60 °C | • | • | • | • | • | • | • | • |
| Mounting system (1=tape; 2=screw; 3=snap)* | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 |
| Mounting tolerance (+/- angle [°]) | 6 | 6 | 6 | 6 | 0 | 0 | | |
| HELLA specification HN67101 class 6.3 + 7.2 | • | • | • | • | • | • | • | • |
| Polarity protection | | | | | | | | |
| Failure protection: current detection, 1 LED off = all off | | | | | | | | |
| Failure protection: ISO13207 | | | | | | | | |
| Integrated short-circuit protection | | | | | | | | |

* Additional mounting systems on request



NOTES

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