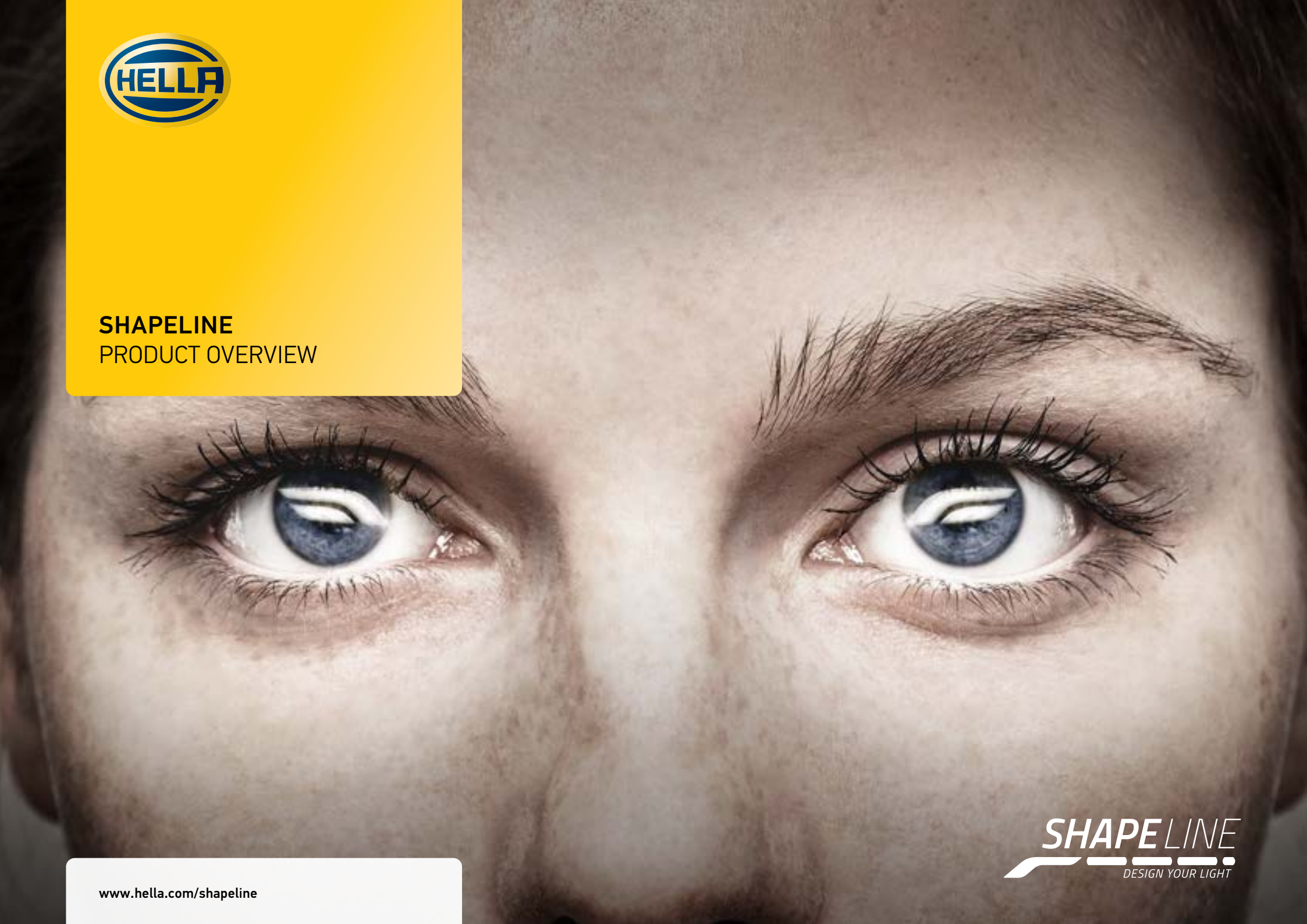


SHAPELINE
PRODUCT OVERVIEW

SHAPELINE
DESIGN YOUR LIGHT

www.hella.com/shapeline

CONTENT

Introduction	02
Configuration tool	03
Module overview	04 – 13
Application examples	14 – 17
Technical information	18 – 32
Connector overview	33
Mounting instructions	34

SHAPELINE
DESIGN YOUR LIGHT

CUSTOMISED LIGHT DESIGN!

The variety and range of shapes and various combination options paired with a technically optimised product design make the new 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!



Premium Design



Flexible



Robust



Simple and safe



ECE and SAE



Multivolt

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





MODULE OVERVIEW

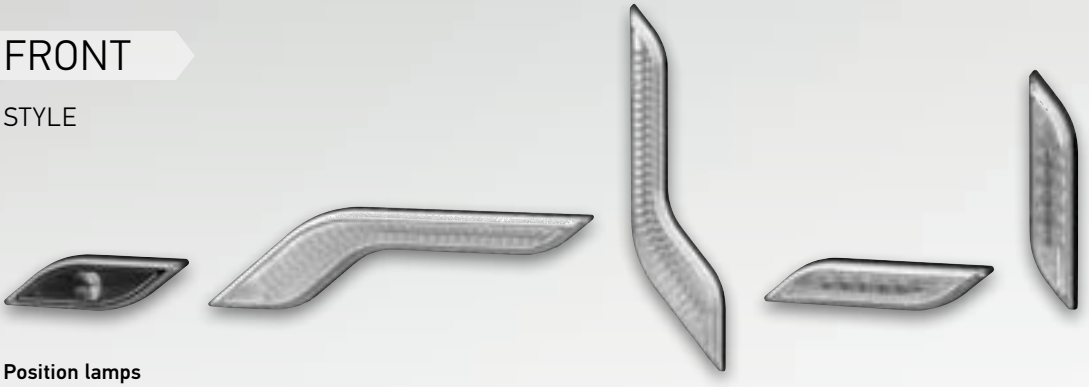
The modular HELLA Shapeline product range provides a variety of different light functions that can be combined with each other individually. Here, all lamps are available in two different designs: The classic straight-line **Shapeline Tech** design and the dynamic curved **Shapeline Style design**.

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.



FRONT

STYLE

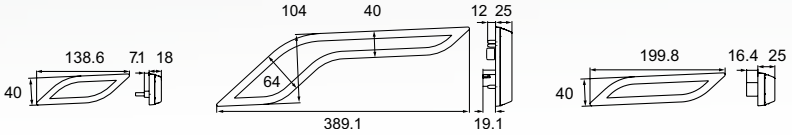


Position lamps

Technical data see page 19.



Technical drawings



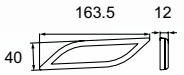


Reflex reflectors

Technical data see page 21.



Technical drawing



TECH

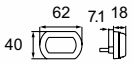


Position lamps

Technical data see page 19.



Technical drawing



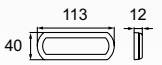


Reflex reflectors

Technical data see page 21.



Technical drawing



FRONT

STYLE

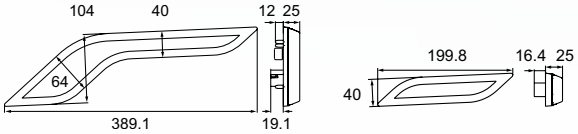


Direction indicators

Technical data see page 20 – 21.



Technical drawings



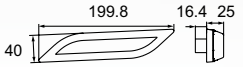


Daytime running lamps and position lamps

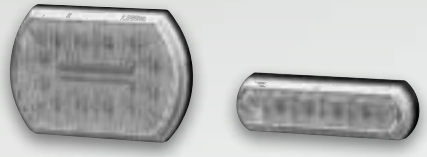
Technical data see page 21.



Technical drawing



TECH

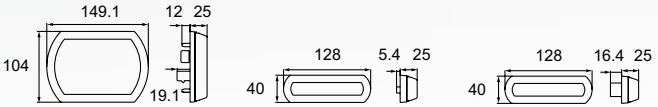


Direction indicators

Technical data see page 20.



Technical drawings



SIDE

STYLE

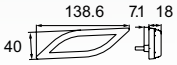


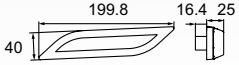
Direction indicators

Technical data see page 25.

9-32V | -40°C - +60°C | ECE | EMC 5

Technical drawings





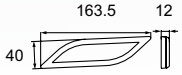


Reflex reflectors

Technical data see page 25.

-40°C - +60°C | ECE | SAE

Technical drawing



TECH

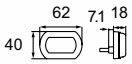


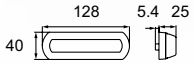
Direction indicators

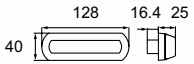
Technical data see page 25.

9-32V | -40°C - +60°C | ECE | EMC 5

Technical drawings







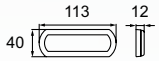


Reflex reflectors

Technical data see page 25.

-40°C - +60°C | ECE | SAE

Technical drawing





Clearance lamps

Technical data see page 21.

9-32V | -40°C - +60°C | ECE | SAE | EMC 5

SIDE

STYLE



Side marker lamps

Technical data see page 24 – 25.



Technical drawing



TECH



Side marker lamps

Technical data see page 22 – 23.



Technical drawing

REAR

STYLE

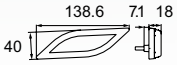


Position lamps

Technical data see page 26.



Technical drawing



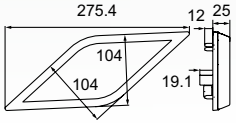


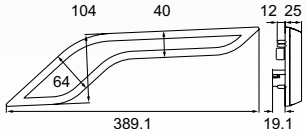
Tail-stop lamps

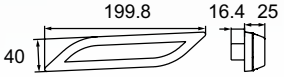
Technical data see page 26 – 27.



Technical drawings







TECH

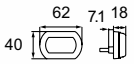


Position lamps

Technical data see page 26.



Technical drawing



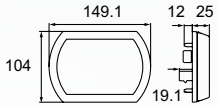


Tail-stop lamps

Technical data see page 26.



Technical drawing



REAR

STYLE

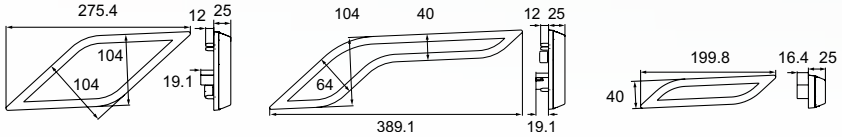


Direction indicators

Technical data see page 28 – 29.



Technical drawings



TECH

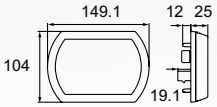


Direction indicators

Technical data see page 27.



Technical drawing



REAR

STYLE

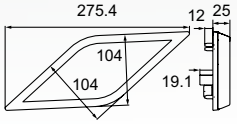


Tail-stop-direction indicator lamps

Technical data see page 27.



Technical drawing



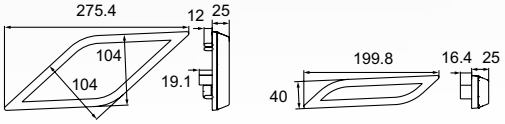


Reverse lamps

Technical data see page 30.



Technical drawings



TECH

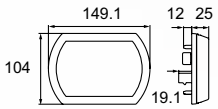


Tail-stop-direction indicator lamps

Technical data see page 27.



Technical drawing



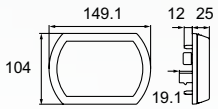


Reverse lamps

Technical data see page 29.

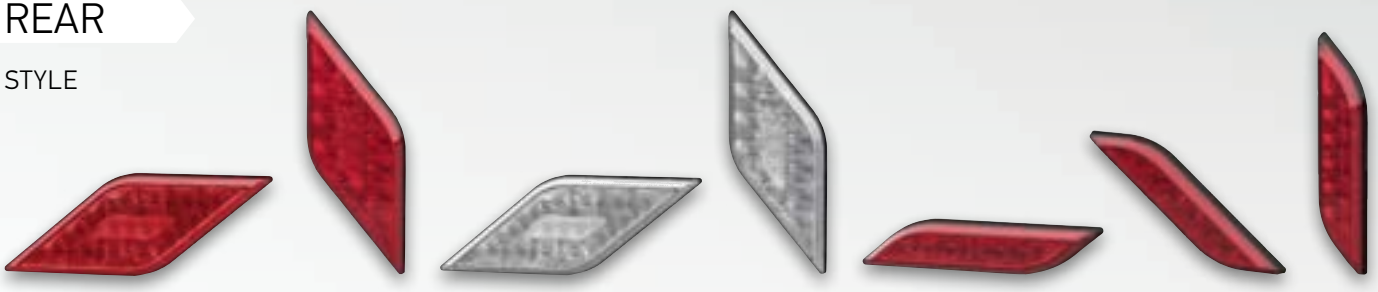


Technical drawing



REAR

STYLE

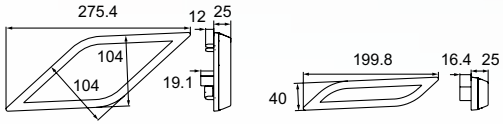


Rear fog lamps

Technical data see page 31 – 32.



Technical drawings



TECH

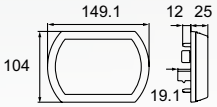


Rear fog lamps

Technical data see page 30 – 31.



Technical drawing



REAR

STYLE

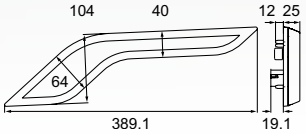


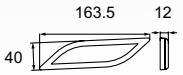
Reflex reflectors

Technical data see page 32.



Technical drawings





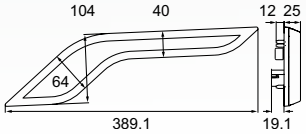


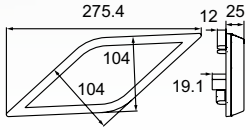
Warning lamps

Technical data see page 32.



Technical drawings





TECH

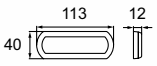


Reflex reflectors

Technical data see page 32.



Technical drawing



APPLICATION EXAMPLES

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



Style
2BA 013 333-051
4 x



Style
2BA 013 333-061
4 x



Style
2SB 013 399-011
4 x



Style
2SB 013 399-021
4 x



Style
2ZR 013 401-051
3 x



Style
2ZR 013 401-061
3 x



Style
2BM 013 339-031
1 x



Style
2BM 013 339-041
1 x



Style
2NE 013 343-051
1 x



Style
2NE 013 343-061
1 x



SHAPELINE PRODUCTS ON THE VEHICLE



Style
2SB 013 399-011
1 x



Style
2SB 013 399-021
1 x



Style
2BA 013 332-071
1 x



Style
2BA 013 332-081
1 x



Style
2ZR 013 401-111
1 x



Style
2ZR 013 401-121
1 x



Style
2NE 013 343-111
1 x



Style
2NE 013 343-121
1 x



SHAPELINE PRODUCTS ON THE VEHICLE



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



Style	Style
8RA 013 347-051	8RA 013 347-061
1 x	**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 for transport of dangerous goods
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.



ECE type approval
Product is licensed according to ECE guidelines.



SAE type approval
Product has SAE type approval.



Protection class IP X9K
Resistant to high-pressure cleaning



AECQ – components qualified in accordance with the automotive standard
Components qualified according to automotive standard.



Operating temperature - 40 C – + 60 C
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.



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.













	Position lamp front	Position lamp front LH	Position lamp front RH	Position lamp Wing front LH hor.	Position lamp Wing front RH hor.	Position lamp Wing front LH vert.	Position lamp Wing front RH vert.	Position lamp Slim front LH hor.	Position lamp Slim front RH hor.	Position lamp Slim front LH vert.	Position lamp Slim front RH vert.
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
Connectors and wiring	6.3 mm receptacles 2100 mm	Open ends 250 mm	Open ends 5000 mm	AMP SS 250 mm	Open ends 250 mm	Amphenol 250 mm	AMP SS 250 mm	Open ends 250 mm	Amphenol 250 mm	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS
Device number (Please add packaging index as the last number -1 Individual packaging or -7 Multiple-item packaging)	2PF 013 323-21	2PF 013 323-22	2PF 013 323-20	2PF 013 324-01	2PF 013 324-03	2PF 013 324-05	2PF 013 324-02	2PF 013 324-04	2PF 013 324-06	2PF 013 325-01	2PF 013 325-02	2PF 013 325-03	2PF 013 325-04	2PF 013 326-01	2PF 013 326-02	2PF 013 326-03	2PF 013 326-04
Minimum order quantity for packaging index 7	50	50	40	50	50	50	50	50	50	30	30	30	30	84	84	84	84
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	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	max. 5.5	max. 5.5	max. 5.5	max. 5.5	0.88 / 2.1	0.88 / 2.1	0.88 / 2.1	0.88 / 2.1
Dimensions (length / width / height in mm)	62/40/18	62/40/18	62/40/18	138.6/40/20	138.6/40/20	138.6/40/20	138.6/40/20	138.6/40/20	138.6/40/20	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-ball-head bolt)*	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 reversal protection	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Failure protection: current detection, 1 LED off = all off	•	•	•	•	•	•	•	•	•					•	•	•	•
Failure protection ISO13207																	
Integrated short-circuit protection	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

* Other fastening options available upon request



	Direction indicator Wing front LH hor.	Direction indicator Wing front RH hor.	Direction indicator Wing front LH hor. Wiping L→R	Direction indicator Wing front RH hor. Wiping R→L	Direction indicator Wing front RH hor. Wiping R→L	Direction indicator Wing front LH hor. Wiping L→R	Direction indicator Wing front LH vert.	Direction indicator Wing front RH vert.	Direction indicator front	Direction indicator front	Direction indicator wiping front
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	ECE/SAE > 2032	ECE / SAE < 2032	ECE
Connectors and wiring	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP	Integrated 2-pin AMP
Device number (Please add packaging index as the last number -1 Individual packaging or -7 Multiple-item packaging)	2BA 013 334-01	2BA 013 334-02	2BA 013 334-05	2BA 013 334-06	2BA 013 334-08	2BA 013 334-07	2BA 013 334-03	2BA 013 334-04	2BA 013 330-01	2BA 013 398-00	2BA 013 398-01
Minimum order quantity for packaging index 7	30	30	30	30	30	30	30	30	35	140	140
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]	max. 5.5	max. 5.5	max. 5.5	max. 5.5	max. 5.5	max. 5.5	max. 5.5	max. 5.5	5.5 / 6.7	max. 2.93	max. 2.93
Dimensions (length / width / height in 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	149.1/104/25	128/40/25	128/40/25
Operating temp.: -40 – +60°C	•	•	•	•	•	•	•	•	•	•	•
Mounting system (1= tape; 2= screw; 3= snap-ball-head bolt)*	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 reversal protection	•	•	•	•	•	•	•	•	•	•	•
Failure protection: current detection, 1 LED off = all off											
Failure protection ISO13207	•	•	•	•	•	•	•	•	•	•	•
Integrated short-circuit protection	•	•	•	•	•	•	•	•	•	•	•

* Other fastening options available upon request

Note: The Shapeline direction indicators (for front and rear), tail-stop lamps and tail-stop-direction indicator lamps are not approved for the vehicle class M1 with < 3.5 t.

Direction indicator Slim front LH hor.	Direction indicator Slim front RH hor.	Direction indicator Slim front LH hor. Wiping L→R	Direction indicator Slim front RH hor. Wiping R→L	Direction indicator Slim front LH vert.	Direction indicator Slim front RH vert.	Daytime running and position lamp Slim front LH	Daytime running and position lamp Slim front RH	Reflex reflector front	Reflex reflector front LH	Reflex reflector front RH	Clearance lamp side mounting Light irradiation to the front and back	Clearance lamp side mounting Light irradiation to the front and back
Style	Style	Style	Style	Style	Style	Style	Style	Tech	Style	Style	Tech	Tech
ECE/SAE<2032	ECE/SAE<2032	ECE	ECE	ECE/SAE<2032	ECE/SAE<2032	ECE/SAE	ECE/SAE	ECE/SAE	ECE/SAE	ECE/SAE	ECE	SAE
Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	•	•	•	open ends 500 mm	Integrated 2-pin AMP
2BA 013 335-03	2BA 013 335-04	2BA 013 335-01	2BA 013 335-02	2BA 013 335-05	2BA 013 335-06	2PT 014 627-01	2PT 014 627-02	8RA 013 403-01	8RA 013 347-01	8RA 013 347-02	2XS 013 327-01	2XS 013 327-00	2XS 013 327-03	2XS 013 327-02
84	84	84	84	84	84			299	240	240	50	50	50	50
•	•	•	•	•	•	•	•				•	•	•	•
•	•	•	•	•	•	•	•				•	•	•	•
12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24				12/24	12/24	12/24	12/24
217 / 105	217 / 105	217 / 105	217 / 105	217 / 105	217 / 105	DRL: 300/158 PO: 32/26	DRL: 300/158 PO: 32/26				50/25	50/25	60/30	60/30
6	6	6	6	6	6	6	6							
max. 2.93	max. 2.93	max. 2.93	max. 2.93	max. 2.93	max. 2.93	DRL: 4.05 / 4.424 PO: 0.43 / 0.728	DRL: 4.05 / 4.424 PO: 0.43 / 0.728				0.68/0.70	0.68/0.70	0.81/0.84	0.81/0.84
199.8/40/25	199.8/40/25	199.8/40/25	199.8/40/25	199.8/40/25	199.8/40/25	199.8/40/25	199.8/40/25	113/40/12	163.5/40/12	163.5/40/12	91/40.5/21	91/40.5/21	91/40.5/21	91/40.5/21
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1*	1*	1*	1*	1*	1*	2	2	1	1	1	1*	1*	1*	1*
6	6	6	6	0	0	0	0	0	6	6	0	0	0	0
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•				•	•	•	•
•	•	•	•	•	•	•	•							
•	•	•	•	•	•	•	•				•	•	•	•

DRL = Daytime running light, PO = Position light

Note: The Shapeline direction indicators (for front and rear), tail-stop lamps and tail-stop-direction indicator lamps are not approved for the vehicle class M1 with < 3.5 t.

	Side marker lamp with reflex reflector amber hor.								Side marker lamp with reflex reflector amber vert.								Side marker lamp with reflex reflector amber hor.			Side marker lamp with reflex reflector amber vert.			Side marker lamp with reflex reflector amber hor. rubber housing							Side marker lamp with reflex reflector amber vert. rubber housing		
Design	Tech								Tech								Tech			Tech			Tech								Tech		
Homologation	ECE SM1/SAE								ECE SM1/SAE								ECE SM2			ECE SM2			ECE SM1/SAE								ECE SM1/SAE		
Connectors and wiring	EC angled 1000 mm	AMP SS 450 mm	EC straight 1300 mm	QL 1300 mm	6.3 mm receptacles 2100 mm	open ends 500 mm	Open ends 1500 mm	Amphenol 500 mm	EC angled 1000 mm	AMP SS 450 mm	EC straight 1300 mm	QL 1300 mm	6.3 mm receptacles 2100 mm	open ends 500 mm	Open ends 1500 mm	Amphenol 500 mm	AMP SS 250 mm, not overmolded	6.3 mm receptacles 250 mm	Open ends 250 mm	AMP SS 250 mm, not overmolded	6.3 mm receptacles 250 mm	Open ends 250 mm	EC angled 1000 mm	AMP SS 450 mm	EC straight 1300 mm	QL 1300 mm	6.3 mm receptacles 2100 mm	open ends 500 mm	Open ends 1500 mm	Amphenol 500 mm	EC angled 1000 mm	AMP SS 450 mm	EC straight 1300 mm
Device number (Please add packaging index as the last number -1 Individual packaging or -7 Multiple-item packaging)	2PS 013 300-01	2PS 013 300-02	2PS 013 300-03	2PS 013 300-04	2PS 013 300-05	2PS 013 300-00	2PS 013 300-06	2PS 013 300-07	2PS 013 301-01	2PS 013 301-02	2PS 013 301-03	2PS 013 301-04	2PS 013 301-05	2PS 013 301-00	2PS 013 301-06	2PS 013 301-07	2PS 013 302-01	2PS 013 302-02	2PS 013 302-00	2PS 013 302-11	2PS 013 302-12	2PS 013 302-10	2PS 013 300-25	2PS 013 300-26	2PS 013 300-27	2PS 013 300-28	2PS 013 300-29	2PS 013 300-24	2PS 013 300-30	2PS 013 300-31	2PS 013 301-25	2PS 013 301-26	2PS 013 301-27
Minimum order quantity for packaging index 7	50	100	50	50	50	100	50	100	50	100	50	50	50	100	50	100	120	120	120	120	120	120	50	100	50	50	50	100	50	100	50	100	50
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	12/24	12/24	12/24	12	12	12	12	12	12	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]	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	38 / -	38 / -	38 / -	38 / -	38 / -	38 / -	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47
Number of LEDs	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3	3	3
Power consumption at 13.5V/28V [W]	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.5	0.5	0.5	0.5	0.5	0.5	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3
Dimensions (length / width / height in mm)	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	168/34/15.5	171.8/37.8/17.1	171.8/37.8/17.1	171.8/37.8/17.1	171.8/37.8/17.1	171.8/37.8/17.1	171.8/37.8/17.1	171.8/37.8/17.1	171.8/37.8/17.1	171.8/37.8/17.1	171.8/37.8/17.1	171.8/37.8/17.1
Operating temp.: -40 – +60°C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Mounting system (1= tape; 2= screw; 3= snap-ball-head bolt)*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*
Mounting tolerance (+/- angle [°])	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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

| Side marker lamp with reflex reflector amber vert. rubber housing | | |










	Side marker lamp amber LH				Side marker lamp amber RH				Side marker lamp amber LH			Side marker lamp amber RH			Side marker lamp amber LH rubber housing				Side marker lamp amber RH rubber housing				Side marker lamp red LH				Side marker lamp red RH			
Design	Style				Style				Style			Style			Style				Style				Style				Style			
Homologation	ECE SM1/SAE				ECE SM1/SAE				ECE SM2			ECE SM2			ECE SM1/SAE				ECE SM1/SAE				SAE				SAE			
Connectors and wiring	AMP SS 250 mm, overmolded	6.3 mm receptacles 250 mm	Open ends 250 mm	Amphenol 500 mm	AMP SS 250 mm, overmolded	6.3 mm receptacles 250 mm	Open ends 250 mm	Amphenol 500 mm	AMP SS 250 mm, not overmolded	6.3 mm receptacles 250 mm	Open ends 250 mm	AMP SS 250 mm, not overmolded	6.3 mm receptacles 250 mm	Open ends 250 mm	AMP SS 250 mm, overmolded	6.3 mm receptacles 250 mm	Open ends 250 mm	Amphenol 500 mm	AMP SS 250 mm, overmolded	6.3 mm receptacles 250 mm	Open ends 250 mm	Amphenol 500 mm	AMP SS 250 mm, overmolded	6.3 mm receptacles 250 mm	Open ends 250 mm	Amphenol 500 mm	AMP SS 250 mm, overmolded	6.3 mm receptacles 250 mm	Open ends 250 mm	Amphenol 500 mm
Device number (Please add packaging index as the last number -1 Individual packaging or -7 Multiple-item packaging)	2PS 013 305-01	2PS 013 305-03	2PS 013 305-05	2PS 013 305-07	2PS 013 305-02	2PS 013 305-04	2PS 013 305-06	2PS 013 305-08	2PS 013 306-01	2PS 013 306-03	2PS 013 306-05	2PS 013 306-02	2PS 013 306-04	2PS 013 306-06	2PS 013 305-25	2PS 013 305-27	2PS 013 305-29	2PS 013 305-31	2PS 013 305-26	2PS 013 305-28	2PS 013 305-30	2PS 013 305-32	2PS 013 307-01	2PS 013 307-03	2PS 013 307-05	2PS 013 307-07	2PS 013 307-02	2PS 013 307-04	2PS 013 307-06	2PS 013 307-08
Minimum order quantity for packaging index 7	120	120	120	100	120	120	120	100	120	120	120	120	120	120	120	120	120	100	120	120	120	100	120	120	120	100	120	120	120	100
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	12	12	12	12	12	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]	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	38 / -	38 / -	38 / -	38 / -	38 / -	38 / -	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47
Number of LEDs	3	3	3	3	3	3	3	3	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Power consumption at 13.5V/28V [W]	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.5	0.5	0.5	0.5	0.5	0.5	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3	0.55 / 1.3
Dimensions (length / width / height in mm)	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	208.8/37.8/17.1	208.8/37.8/17.1	208.8/37.8/17.1	208.8/37.8/17.1	208.8/37.8/17.1	208.8/37.8/17.1	208.8/37.8/17.1	208.8/37.8/17.1	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5	205/34/15.5
Operating temp.: -40 – +60°C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Mounting system (1= tape; 2= screw; 3= snap-ball-head bolt)*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*
Mounting tolerance (+/- angle [°])	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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



Side marker lamp red LH rubber housing
Style
SAE



Side marker lamp red RH rubber housing
Style
SAE



Direction indicator, side, cat. 5
Tech
ECE



Direction indicator, side, cat. 6 hor.
Tech
ECE



Direction indicator, side, cat. 6 vert. LH
Tech
ECE



Direction indicator, side, cat. 6 vert RH
Tech
ECE



Direction indicator, side, cat. 5 LH
Style
ECE



Direction indicator, side, cat. 5 RH
Style
ECE



Direction indicator side cat. 6 LH
Style
ECE



Direction indicator side cat. 6 RH
Style
ECE



Reflex reflector side
Tech
ECE/SAE



Reflex reflector side LH
Style
ECE/SAE



Reflex reflector side RH
Style
ECE/SAE

| | | |













	Position lamp rear	Position lamp rear LH	Position lamp rear RH	Tail-stop lamp rear	Tail-stop lamp rear LH hor.	Tail-stop lamp rear RH hor.	Tail-stop lamp rear LH vert.	Tail-stop lamp rear RH vert.	Tail-stop lamp Wing rear LH hor.	Tail-stop lamp Wing rear RH hor.	Tail-stop lamp Wing rear LH vert.
Design	Tech	Style	Style	Tech	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
Connectors and wiring	6.3 mm receptacles 2100 mm	Open ends 250 mm	Open ends 5000 mm	AMP SS 250 mm	Open ends 250 mm	Amphenol 250 mm	AMP SS 250 mm	Open ends 250 mm	Amphenol 250 mm	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS
Device number (Please add packaging index as the last number -1 Individual packaging or -7 Multiple-item packaging)	2SA 013 323-01	2SA 013 323-02	2SA 013 323-00	2SA 013 324-21	2SA 013 324-23	2SA 013 324-25	2SA 013 324-22	2SA 013 324-24	2SA 013 324-26	2SB 013 341-00	2SB 013 342-01	2SB013 342-02	2SB 013 342-03	2SB 013 342-04	2SB 013 399-01	2SB 013 399-02	2SB 013 399-03
Minimum order quantity for packaging index 7	50	50	40	50	50	50	50	50	50	35	45	45	45	45	30	30	30
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	12/24	12/24	12/24	12/24
Current flow at 13.5V/28V [mA]	48 / 54	48 / 54	48 / 54	48 / 54	48 / 54	48 / 54	48 / 54	48 / 54	48 / 54	ST: 260 / 272 TL: 52 / 54	ST: 260 / 272 TL: 52 / 54	ST: 260 / 272 TL: 52 / 54	ST: 260 / 272 TL: 52 / 54	ST: 260 / 272 TL: 52 / 54	ST: 305 / 330 TL: 40 / 60	ST: 305 / 330 TL: 40 / 60	ST: 305 / 330 TL: 40 / 60
Number of LEDs	1	1	1	1	1	1	1	1	1	24 / 12	24 / 12	24 / 12	24 / 12	24 / 12	30	30	30
Power consumption at 13.5V/28V [W]	0.65 / 1.5	0.65 / 1.5	0.65 / 1.5	0.65 / 1.5	0.65 / 1.5	0.65 / 1.5	0.65 / 1.5	0.65 / 1.5	0.65 / 1.5	ST: 3.5 / 7.6 TL: 0.7 / 1.5	ST: 3.5 / 7.6 TL: 0.7 / 1.5	ST: 3.5 / 7.6 TL: 0.7 / 1.5	ST: 3.5 / 7.6 TL: 0.7 / 1.5	ST: 3.5 / 7.6 TL: 0.7 / 1.5	ST: 4.2 / 9.3 TL: 0.6 / 1.7	ST: 4.2 / 9.3 TL: 0.6 / 1.7	ST: 4.2 / 9.3 TL: 0.6 / 1.7
Dimensions (length / width / height in mm)	62/40/18	62/40/18	62/40/18	138.6/40/20	138.6/40/20	138.6/40/20	138.6/40/20	138.6/40/20	138.6/40/20	149.1/104/25	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
Operating temp.: -40 – +60°C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Mounting system (1= tape; 2= screw; 3= snap-ball-head bolt)*	1*	1*	1*	1*	1*	1*	1*	1*	1*	2*	2*	2*	2*	2*	2*	2*	2*
Mounting tolerance (+/- angle [°])	0	0	0	6	6	6	6	6	6	0	0	0	0	0	6	6	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

Note: The Shapeline direction indicators (for front and rear), tail-stop lamps and tail-stop-direction indicator lamps are not approved for the vehicle class M1 with < 3.5 t.

Tail-stop lamp Wing rear RH vert.	Tail-stop lamp Slim rear LH hor.	Tail-stop lamp Slim rear RH hor.	Tail-stop lamp Slim rear LH vert.	Tail-stop lamp Slim rear RH vert.	Tail-stop-direction indicator lamp rear	Tail-stop-direction indicator lamp rear LH hor.	Tail-stop-direction indicator lamp rear RH hor.	Tail-stop-direction indicator lamp rear LH vert.	Tail-stop-direction indicator lamp rear RH vert.	Direction indicator amber rear	Direction indicator clear rear
Style	Style	Style	Style	Style	Tech	Style	Style	Style	Style	Tech	Tech
ECE/SAE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE
Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 4-pin AMP SS	Integrated 4-pin AMP SS	Integrated 4-pin AMP SS	Integrated 4-pin AMP SS	Integrated 4-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS
2SB 013 399-04	2SB 013 343-21	2SB 013 343-22	2SB 013 343-23	2SB 013 343-24	2SD 013 341-01	2SD013 342-11	2SD 013 342-12	2SD 013 342-13	2SD 013 342-14	2BA 013 330-02	2BA 013 330-00
30	84	84	84	84	35	45	45	45	45	35	35
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24
ST: 305 / 330 TL: 40 / 60	155 / 74	155 / 74	155 / 74	155 / 74	ST: 82 / 118 TL: 45 / 50 DI: 304 / 190	ST: 82 / 118 TL: 45 / 50 DI: 304 / 190	ST: 82 / 118 TL: 45 / 50 DI: 304 / 190	ST: 82 / 118 TL: 45 / 50 DI: 304 / 190	ST: 82 / 118 TL: 45 / 50 DI: 304 / 190	171 / 183	171 / 183
30	6	6	6	6	4 / 12 / 4	4 / 12 / 4	4 / 12 / 4	4 / 12 / 4	4 / 12 / 4	12	12
ST: 4.2 / 9.3 TL: 0.6 / 1.7	B: 2 / 2,8 S: 0,3 / 0,8	B: 2 / 2,8 S: 0,3 / 0,8	B: 2 / 2,8 S: 0,3 / 0,8	B: 2 / 2,8 S: 0,3 / 0,8	ST: 1.1 / 3.3 TL: 0.6 / 1.4 DI: 4.1 / 5.3	ST: 1.1 / 3.3 TL: 0.6 / 1.4 DI: 4.1 / 5.3	ST: 1.1 / 3.3 TL: 0.6 / 1.4 DI: 4.1 / 5.3	ST: 1.1 / 3.3 TL: 0.6 / 1.4 DI: 4.1 / 5.3	ST: 1.1 / 3.3 TL: 0.6 / 1.4 DI: 4.1 / 5.3	2.3 / 5.1	2.3 / 5.1
389.1/104/25	199,8/40/25	199,8/40/25	199,8/40/25	199,8/40/25	149.1/104/25	275.4/104/25	275.4/104/25	275.4/104/25	275.4/104/25	149.1/104/25	149.1/104/25
•	•	•	•	•	•	•	•	•	•	•	•
2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*
0	0	0	0	0	0	0	0	0	0	0	0
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•							
					•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•

ST = stop light, TL = tail light, DI = direction indicator

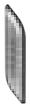
Note: The Shapeline direction indicators (for front and rear), tail-stop lamps and tail-stop-direction indicator lamps are not approved for the vehicle class M1 with < 3.5 t.



	Direction indicator amber rear LH hor.	Direction indicator amber rear RH hor.	Direction indicator amber rear LH vert.	Direction indicator amber rear RH vert.	Direction indicator clear rear LH hor.	Direction indicator clear rear RH hor.	Direction indicator clear rear LH vert.	Direction indicator clear rear RH vert.	Direction indicator Wing rear LH hor.	Direction indicator Wing rear RH hor.	Direction indicator Wing rear LH hor. wiping R → L
Design	Style	Style	Style	Style	Style	Style	Style	Style	Style	Style	Style
Homologation	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE
Connectors and wiring	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS
Device number (Please add packaging index as the last number -1 Individual packaging or -7 Multiple-item packaging)	2BA 013 331-05	2BA 013 331-06	2BA 013 331-07	2BA 013 331-08	2BA 013 331-01	2BA 013 331-02	2BA 013 331-03	2BA 013 331-04	2BA 013 333-01	2BA 013 333-02	2BA 013 333-05
Minimum order quantity for packaging index 7	45	45	45	45	45	45	45	45	30	30	30
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	171 / 183	171 / 183	171 / 183	171 / 183	285 / 315	285 / 315	285 / 315
Number of LEDs	12	12	12	12	12	12	12	12	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	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
Dimensions (length / width / height in mm)	275,4/104/25	275,4/104/25	275,4/104/25	275,4/104/25	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
Operating temp.: -40 – +60°C	•	•	•	•	•	•	•	•	•	•	•
Mounting system (1= tape; 2= screw; 3= snap-ball-head bolt)*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*	2*
Mounting tolerance (+/- angle [°])	0	0	0	0	0	0	0	0	6	6	6
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

Note: The Shapeline direction indicators (for front and rear), tail-stop lamps and tail-stop-direction indicator lamps are not approved for the vehicle class M1 with < 3.5 t.

											
Direction indicator Wing rear RH hor. wiping L → R	Direction indicator Wing rear LH hor. wiping R → L	Direction indicator Wing rear RH hor. wiping L → R	Direction indicator Wing rear LH vert.	Direction indicator Wing rear RH vert.	Direction indicator Slim rear LH hor.	Direction indicator Slim rear RH hor.	Direction indicator Slim rear LH hor. wiping	Direction indicator Slim rear RH hor. wiping	Direction indicator Slim rear LH vert.	Direction indicator Slim rear RH vert.	Reverse lamp
Style	Style	Style	Style	Style	Style	Style	Style	Style	Style	Style	Tech
ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE/SAE
Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 3-pin AMP SS
2BA 013 333-06	2BA 013 333-07	2BA 013 333-08	2BA 013 333-03	2BA 013 333-04	2BA 013 332-03	2BA 013 332-04	2BA 013 332-01	2BA 013 332-02	2BA 013 332-05	2BA 013 332-06	2ZR 013 344-10
30	30	30	30	30	84	84	84	84	84	84	35
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24
285 / 315	285 / 315	285 / 315	285 / 315	285 / 315	130 / 90	130 / 90	130 / 90	130 / 90	130 / 90	130 / 90	230 / 130
30	30	30	30	30	6	6	6	6	6	6	4
3.9 / 8	3.9 / 8	3.9 / 8	3.9 / 8	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
389.1/104/25	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	199.8/40/25	199.8/40/25	149.1/104/25
•	•	•	•	•	•	•	•	•	•	•	•
2*	2*	2*	2*	2*	1*	1*	1*	1*	1*	1*	2*
6	6	6	0	0	6	6	6	6	0	0	0
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	•	•	•	•

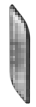
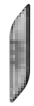
Note: The Shapeline direction indicators (for front and rear), tail-stop lamps and tail-stop-direction indicator lamps are not approved for the vehicle class M1 with < 3.5 t.










	Reverse lamp LH hor.	Reverse lamp RH hor.	Reverse lamp LH vert.	Reverse lamp RH hor.	Reverse lamp Slim LH hor. (only w ith 2 modules)	Reverse lamp Slim RH hor. (only with 2 modules)	Reverse lamp Slim LH diag. (only with 2 modules)	Reverse lamp Slim RH diag. (only with 2 modules)	Reverse lamp Slim LH vert. (only with 2 modules)	Reverse lamp Slim RH vert. (only with 2 modules)	Rear fog lamp
Design	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
Connectors and wiring	Integrated 3-pin AMP SS (with 2 pin function)	Integrated 3-pin AMP SS (with 2 pin function)	Integrated 3-pin AMP SS (with 2 pin function)	Integrated 3-pin AMP SS (with 2 pin function)	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 3-pin AMP SS
Device number (Please add packaging index as the last number -1 Individual packaging or -7 Multiple-item packaging)	2ZR 013 345-11	2ZR 013 345-12	2ZR 013 345-13	2ZR 013 345-14	2ZR 013 401-01	2ZR 013 401-02	2ZR 013 401-05	2ZR 013 401-06	2ZR 013 401-03	2ZR 013 401-04	2NE 013 344-00
Minimum order quantity for packaging index 7	45	45	45	45	84	84	84	84	84	84	35
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]	230 / 130	230 / 130	230 / 130	230 / 130	243 / 117	243 / 117	243 / 117	243 / 117	243 / 117	243 / 117	171 / 100
Number of LEDs	4	4	4	4	6	6	6	6	6	6	12
Power consumption at 13.5V/28V [W]	3,1 / 3,6	3,1 / 3,6	3,1 / 3,6	3,1 / 3,6	max. 2.9	max. 2.9	max. 2.9	max. 2.9	max. 2.9	max. 2.9	2.3 / 2.8
Dimensions (length / width / height in mm)	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	149.1/104/25
Operating temp.: -40 – +60°C	•	•	•	•	•	•	•	•	•	•	•
Mounting system (1= tape; 2= screw; 3= snap-ball-head bolt)*	2*	2*	2*	2*	1*	1*	1*	1*	1*	1*	2*
Mounting tolerance (+/- angle [°])	0	0	0	0	6	6	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

Rear fog/reverse lamp	Rear fog lamp LH hor.	Rear fog lamp RH hor.	Rear fog lamp LH vert.	Rear fog lamp RH vert.	Rear fog/reverse lamp LH hor.	Rear fog/reverse lamp RH hor.	Rear fog/reverse lamp LH vert.	Rear fog/reverse lamp RH vert.	Rear fog lamp Slim LH hor.	Rear fog lamp Slim RH hor.	Rear fog lamp Slim LH diag.
Tech	Style	Style	Style	Style	Style	Style	Style	Style	Style	Style	Style
ECE/SAE	ECE/SAE	ECE/SAE	ECE/SAE	ECE/SAE	ECE/SAE	ECE/SAE	ECE/SAE	ECE/SAE	ECE	ECE	ECE
Integrated 3-pin AMP SS	Integrated 3-pin AMP SS (mit 2 Pin-Funktion)	Integrated 3-pin AMP SS (with 2 pin function)	Integrated 3-pin AMP SS (with 2 pin function)	Integrated 3-pin AMP SS (with 2 pin function)	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 3-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS
2NR 013 344-20	2NE 013 345-01	2NE 013 345-02	2NE 013 345-03	2NE 013 345-04	2NR 013 345-21	2NR 013 345-22	2NR 013 345-23	2NR 013 345-24	2NE 013 343-01	2NE 013 343-02	2NE 013 343-05
35	45	45	45	45	45	45	45	45	84	84	84
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24	12/24
RFL: 171 / 100 RL: 230 / 130	171 / 100	171 / 100	171 / 100	171 / 100	RFL: 171 / 100 RL: 230 / 130	RFL: 171 / 100 RL: 230 / 130	RFL: 171 / 100 RL: 230 / 130	RFL: 171 / 100 RL: 230 / 130	155 / 74	155 / 74	155 / 74
12 / 4	12	12	12	12	12 / 4	12 / 4	12 / 4	12 / 4	6	6	6
RFL: 2.3 / 2.8 RL: 3.1 / 3.6	2.3 / 2.8	2.3 / 2.8	2.3 / 2.8	2.3 / 2.8	RFL: 2.3 / 2.8 RL: 3.1 / 3.6	RFL: 2.3 / 2.8 RL: 3.1 / 3.6	RFL: 2.3 / 2.8 RL: 3.1 / 3.6	RFL: 2.3 / 2.8 RL: 3.1 / 3.6	max. 1.9	max. 1.9	max. 1.9
149.1./104/25	275.4/104/25	275.4/104/25	275.4/104/25	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
•	•	•	•	•	•	•	•	•	•	•	•
2*	2*	2*	2*	2*	2*	2*	2*	2*	1*	1*	1*
0	0	0	0	0	0	0	0	0	6	6	0
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
									•	•	•
•	•	•	•	•	•	•	•	•	•	•	•

RFL = Rear fog light, RL = Reverse light














	Rear fog lamp Slim RH diag.	Rear fog lamp Slim LH vert.	Rear fog lamp Slim RH vert.	Reflex reflector rear	Reflex reflector Wing rear LH	Reflex reflector Wing rear RH	Reflex reflector rear LH	Reflex reflector rear RH	Warning lamp amber LH	Warning lamp amber RH	Warning lamp amber LH	Warning lamp amber RH
Design	Style	Style	Style	Tech	Style	Style	Style	Style	Style	Style	Style	Style
Homologation	ECE	ECE	ECE	ECE/SAE	ECE/SAE	ECE/SAE	ECE/SAE	ECE/SAE	SAE	SAE	SAE	SAE
Connectors and wiring	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	•	•	•	•	•	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS	Integrated 2-pin AMP SS
Device number (Please add packaging index as the last number -1 Individual packaging or -7 Multiple-item packaging)	2NE 013 343-06	2NE 013 343-03	2NE 013 343-04	8RA 013 403-00	8RA 013 402-01	8RA 013 402-02	8RA 013 347-05	8RA 013 347-06	2XW 013 493-01	2XW 013 493-02	2XW 013 345-29	2XW 013 345-30
Minimum order quantity for packaging index 7	84	84	84	299	30	30	240	240	30	30	180	180
Voltage range: 9V – 16V	•	•	•						•	•	•	•
Voltage range: 18V – 32V	•	•	•						•	•	•	•
Nominal voltage [V]	12/24	12/24	12/24								12/24	12/24
Current flow at 13.5V/28V [mA]	155 / 74	155 / 74	155 / 74						407 / 197	407 / 197	518 / 273	518 / 273
Number of LEDs	6	6	6								12	12
Power consumption at 13.5V/28V [W]	max. 1,9	max. 1,9	max. 1,9						max. 5,5	max. 5,5	7,2 / 7,6	7,2 / 7,6
Dimensions (length / width / height in mm)	199,8/40/25	199,8/40/25	199,8/40/25	113/40/12	389.1/104/25	389.1/104/25	163.5/40/12	163.5/40/12	389,1/104/25	389,1/104/25	275,4/104/25	275,4/104/25
Operating temp.: -40 – +60°C	•	•	•	•	•	•	•	•	•	•	•	•
Mounting system (1= tape; 2= screw; 3= snap-ball-head bolt)*	1*	1*	1*	1	2*	2*	1	1	2*	2*	2*	2*
Mounting tolerance (+/- angle [°])	0	0	0	0	6	6	6	6	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 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.



6.3 mm receptacle



Open ends



QL - Quick Link



Amphenol



Integrated AMP SUPERSEAL



AMP SUPERSEAL



EC - EasyConn straight/ angled

ASSEMBLY INSTRUCTIONS FOR SIDE MARKER LAMPS

Specifically for trailers!

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.



Angle bracket
for screw fixing system



Angle bracket
for ball pin fixing system



Side marker lamp including angle bracket
for screw fixing system

OVERVIEW OF SIDE MARKER LAMPS INCLUDING INSTALLATION ANGLES:

	Side marker lamp with reflex reflector Amber hor. **Including installation angle**	Side marker lamp with reflex reflector Amber hor. **Including installation angle**	Side marker lamp with reflex reflector Amber hor. **Including installation angle**	Side marker lamp with reflex reflector Amber hor. **Including installation angle**	Installation angle for Shapeline groups of side marker lamp with reflex reflector 013 300 (Tech), 013 302 (Tech), 013 305 (Style), 013 306 (Style)	Installation angle for Shapeline groups of side marker lamp with reflex reflector 013 300 (Tech), 013 302 (Tech), 013 305 (Style), 013 306 (Style)
Design	Tech	Tech	Tech	Tech		
Homologation	ECE SM1 / SAE	ECE SM1 / SAE	ECE SM1 / SAE	ECE SM1 / SAE		
Connectors and wiring	EC straight 1300 mm	QL 1300 mm	6.3 mm receptacles 2100 mm	Open ends 1500 mm		
Part number	2PS 013 300-717	2PS 013 300-727	2PS 013 300-737	2PS 013 300-747	8HG 160 409-012	8HG 160 409-022
Fixing system	Screw fixing for installation angle	Screw fixing for installation angle	Screw fixing for installation angle	Screw fixing for installation angle	M5 screw fixing for the light	Ball pin fixing for the light

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.


SHAPELINE
DESIGN YOUR LIGHT
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