

Shapeline

Product overview



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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 FORVIA HELLA's products, the variety of shapes of Shapeline lamps provide you with nearly infinite design freedom.

Design your light – with Shapeline by FORVIA HELLA!



Premium Design



Flexible



Robust



Simple and safe



ECE and SAE



Multi-voltage

DESIGN FREEDOM AT THE CLICK OF A MOUSE

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

No matter whether you choose Tech or Style, the Shapeline series by FORVIA HELLA provides design freedom for nearly any application and vehicle, while also achieving a consistent light signature for your vehicle.



FRONT

Style

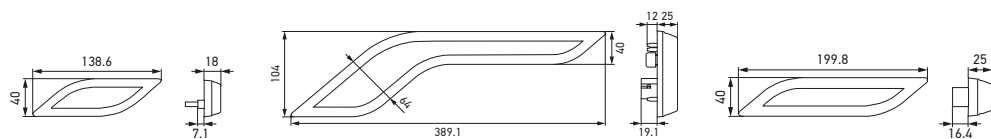


Position lamps

Technical data see page 19.



Technical drawings



Tech

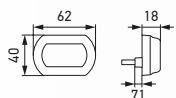


Position lamps

Technical data see page 19.



Technical drawing

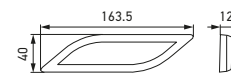


Reflex reflectors

Technical data see page 21.



Technical drawing

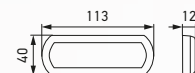


Reflex reflectors

Technical data see page 21.

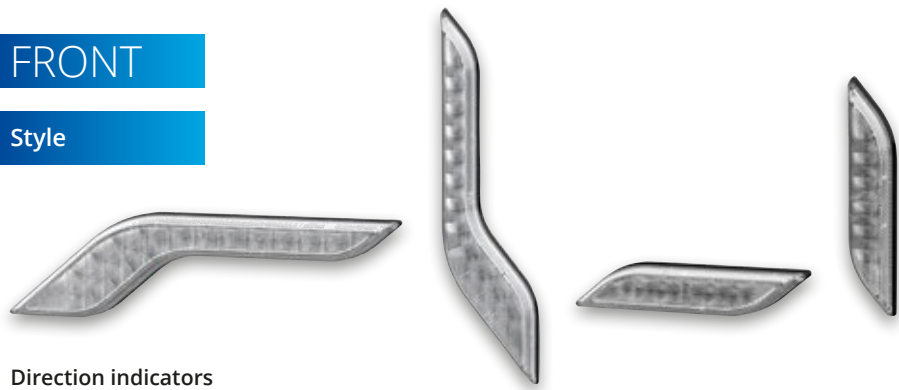


Technical drawing



FRONT

Style

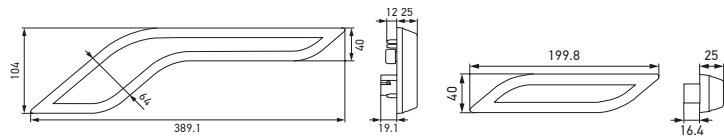


Direction indicators

Technical data see page 20 – 21.



Technical drawings



Tech

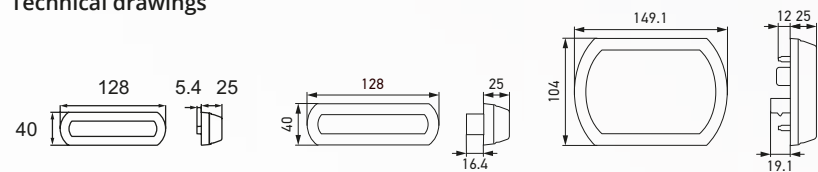


Direction indicators

Technical data see page 20.



Technical drawings

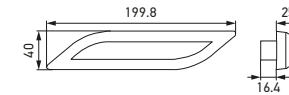


Daytime running lamps and position lamps

Technical data see page 21.



Technical drawing



SIDE

Style

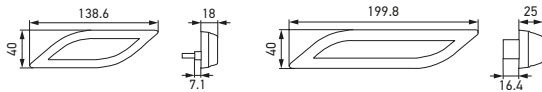


Direction indicators

Technical data see page 25.



Technical drawings

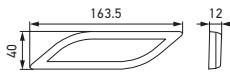


Reflex reflector

Technical data see page 25.



Technical drawing



Tech

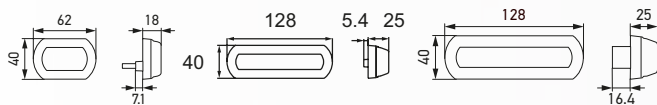


Direction indicators

Technical data see page 25.



Technical drawings

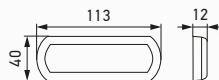


Reflex reflector

Technical data see page 25.



Technical drawing



Clearance lamps

Technical data see page 21.



SIDE

Style



Side marker lamps

Technical data see page 24 – 25.



Technical drawing



Tech

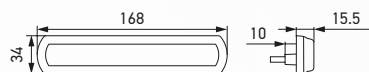


Side marker lamps

Technical data see page 22 – 23.



Technical drawing



REAR

Style

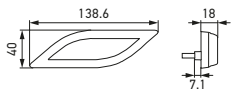


Position lamps

Technical data see page 26.



Technical drawing



Tech

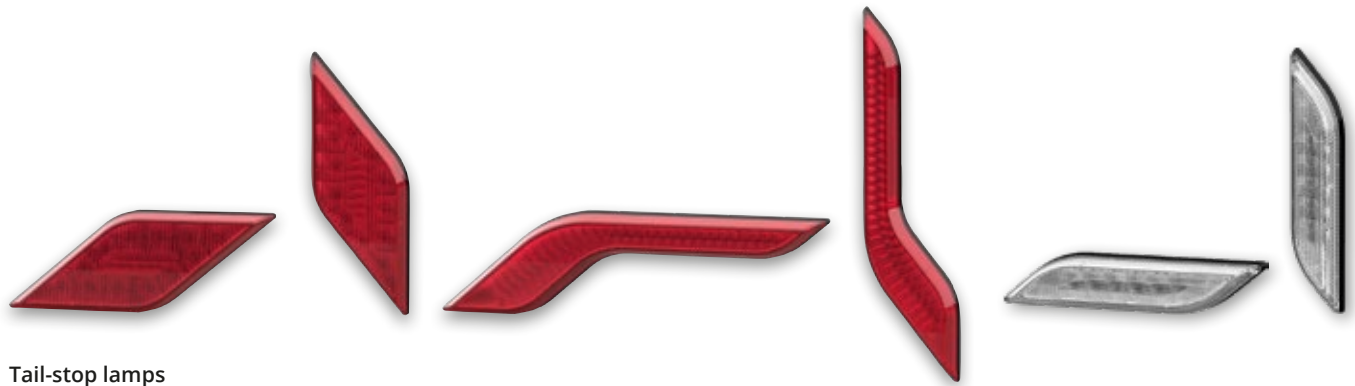
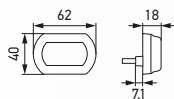


Position lamps

Technical data see page 26.



Technical drawing

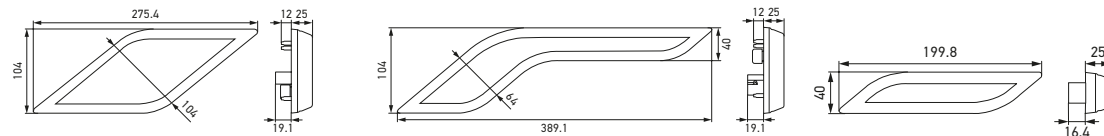


Tail-stop lamps

Technical data see page 26 - 27.



Technical drawings

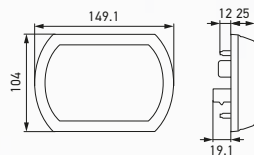


Tail-stop lamps

Technical data see page 26.

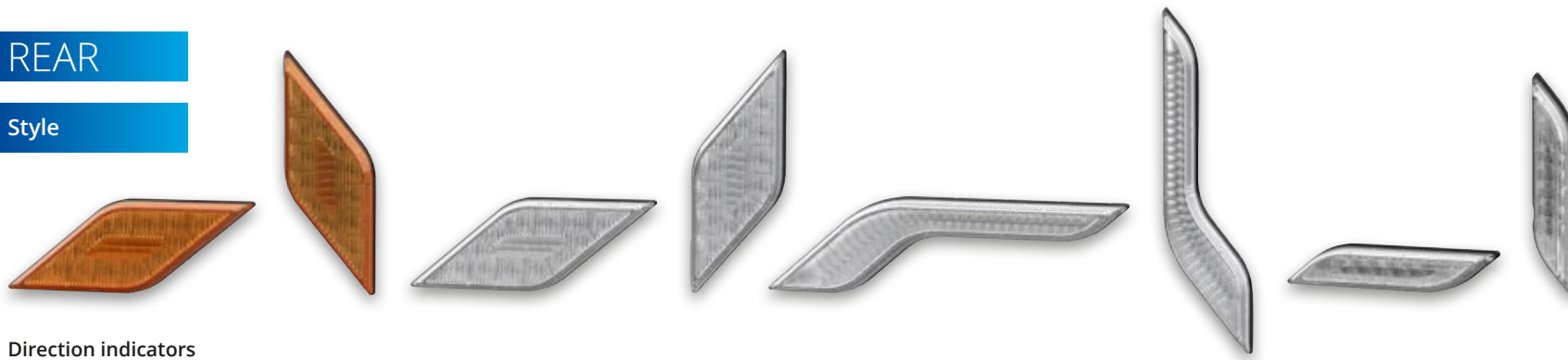


Technical drawing



REAR

Style

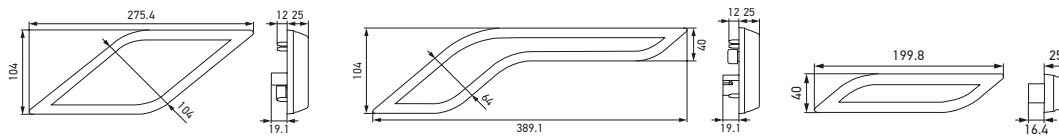


Direction indicators

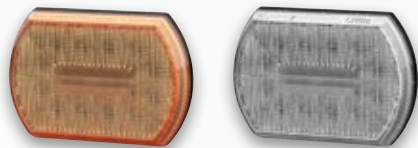
Technical data see page 28 – 29.



Technical drawings



Tech

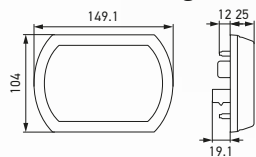


Direction indicators

Technical data see page 27.



Technical drawing



REAR

Style

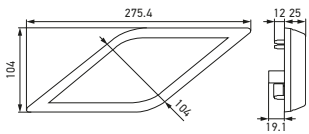


Tail-stop-direction indicator lamps

Technical data see page 27.



Technical drawing



Tech

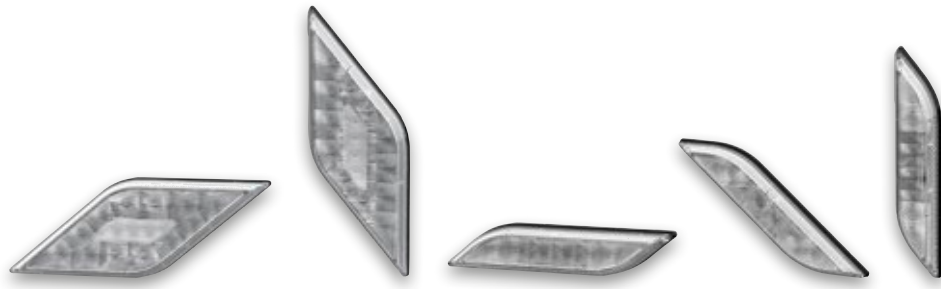
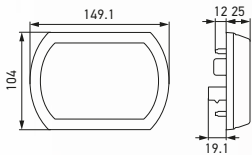


Tail-stop-direction indicator lamps

Technical data see page 27.



Technical drawing

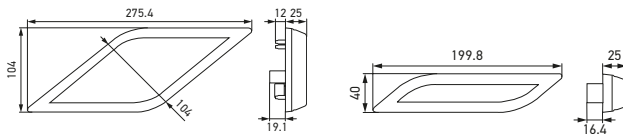


Reverse lamps

Technical data see page 30.



Technical drawings

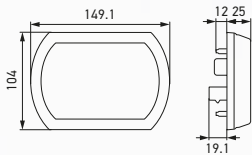


Reverse lamps

Technical data see page 29.

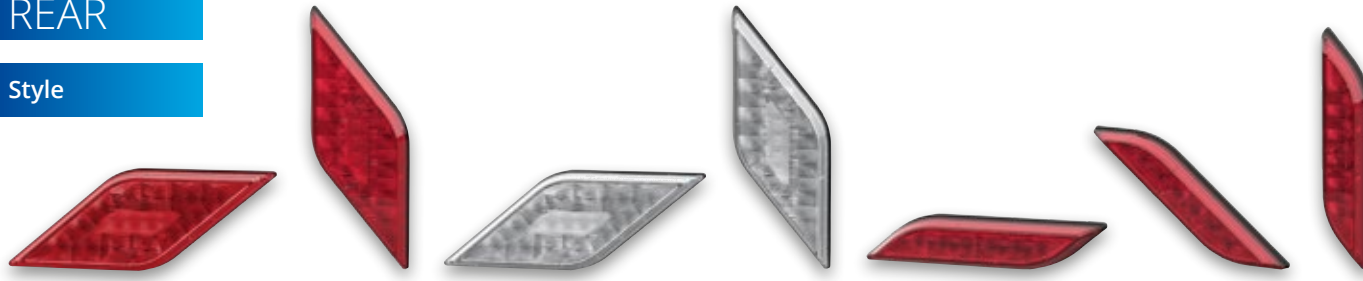


Technical drawing



REAR

Style

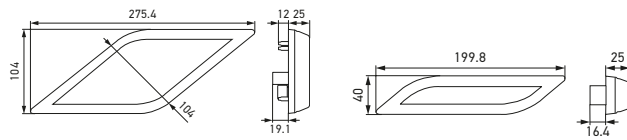


Rear fog lamps

Technical data see page 31 – 32.



Technical drawings



Tech

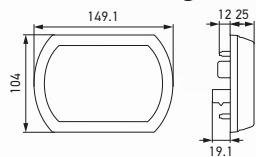


Rear fog lamps

Technical data see page 30 – 31.



Technical drawing



REAR

Style

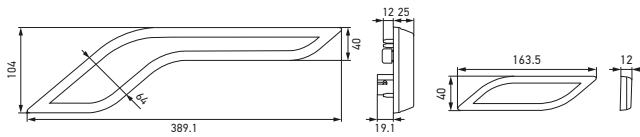


Reflex reflectors

Technical data see page 32.



Technical drawings

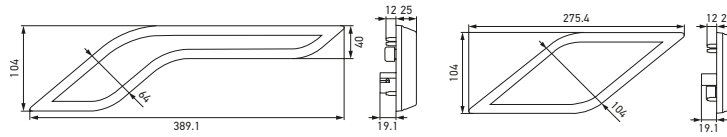


Warning lamps

Technical data see page 32.



Technical drawings



Tech

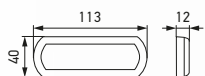


Reflex reflectors

Technical data see page 32.



Technical drawing



APPLICATION EXAMPLES

The Shapeline series by FORVIA HELLA 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



 MOTORHOMES



APPLICATION EXAMPLES



Shapeline products on the vehicle

Style	Style	Style	Style	Style	Style
2BA 013 333-051	2BA 013 333-061	2SB 013 399-011	2SB 013 399-021	2ZR 013 401-051	2ZR 013 401-061
4 x	4 x	4 x	4 x	3 x	3 x
Style	Style	Style	Style		
2BM 013 339-031	2BM 013 339-041	2NE 013 343-051	2NE 013 343-061		
1 x	1 x	1 x	1 x		









Shapeline products on the vehicle

Style	Style	Style	Style
2SB 013 399-011	2SB 013 399-021	2BA 013 332-071	2BA 013 332-081
1 x	1 x	1 x	1 x
Style	Style	Style	Style
2ZR 013 401-111	2ZR 013 401-121	2NE 013 343-111	2NE 013 343-121
1 x	1 x	1 x	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.



ECE type approval

Product is licensed according to ECE guidelines.



SAE type approval

Product has SAE type approval.



ADR / GGVSEB certified for the transport of dangerous goods

Lamp approved for dangerous goods transport according to the European Agreement for the International Carriage of Dangerous Goods by Road (ADR; in German: GGVSEB).



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.



Polarity reversal protection included

Even if the connecting cable is connected the wrong way round, there is still no danger for the electronics.



AECQ – components qualified according to automotive standard

Components qualified according to automotive standard.



IP protection class

International Protection (IP) according to DIN 40050 part 9. The higher the protection class, the better the protection against penetrating media.



Indicator failure check ISO 13207

Regulation according to ECE-R48: The driver shall be informed if the direction indicator function on the vehicle 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 FORVIA HELLA failure control with pulse has been an ISO standard: ISO 13207.














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.

Shapeline product overview:

IP X9K: Protected against water during high-pressure/steam jet cleaning
IP 6K7: Dustproof and protected against the effects of temporary immersion in water














																	
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 & 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						
Device number (Please add packaging index as the last number -1 Individual packaging or -7 Multiple-item packaging)	2PF013 323-21	2PF013 323-22	2PF013 323-20	2PF013 324-01	2PF013 324-03	2PF013 324-05	2PF013 324-02	2PF013 324-04	2PF013 324-06	2PF013 325-01	2PF013 325-02	2PF013 325-03	2PF013 325-04	2PF013 326-01	2PF013 326-02	2PF013 326-03	2PF013 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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Rated 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	26 / 32	315 / 340	315 / 340	315 / 340	315 / 340	65 / 75	65 / 75	65 / 75
Amount 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	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
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
FORVIA 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

											
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 & 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	•	•	•	•	•	•	•	•	•	•	•
Rated 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
Amount 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
FORVIA 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.

																																							
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 & 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																									
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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
Rated 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	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 / -	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			
Amount of LEDs	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	1	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	0.55 / 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	0.55 / 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)	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	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1	171.837.8/17.1			
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*	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	0	0	0	0	0	0	0	0	
FORVIA HELLA Specification HN67101 Classes 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 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	
Homologation	ECE SM1/SAE		ECE SM1/SAE		ECE SM1/SAE		SAE	
Connectors & wiring	AMP SS 250 mm, umspritzt	6.3 mm receptacles 250 mm	Open ends 250 mm	Amphenol 500 mm	AMP SS 250 mm, umspritzt	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
Minimum order quantity for packaging index 7	120	120	120	100	120	120	120	100
Voltage range: 9V – 16V	•	•	•	•	•	•	•	•
Voltage range: 18V – 32V	•	•	•	•	•	•	•	•
Rated voltage [V]	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
Amount of LEDs	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
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
Operating temp.: -40 – +60°C	•	•	•	•	•	•	•	•
Mounting system (1=tape; 2=screw; 3=snap-ball-head bolt)*	1*	1*	1*	1*	1*	1*	1*	1*
Mounting tolerance (+/- angle [°])	0	0	0	0	0	0	0	0
FORVIA HELLA Specification HN67101 Classes 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

Image	Image	Image	Image	Image	Image	Image	Image	Image	Image	Image	Image	Image	Image										
Side marker lamp red LH rubber housing	Side marker lamp red RH rubber housing	Direction indicator, side, cat. 5	Direction indicator, side, cat. 6 hor.	Direction indicator, side, cat. 6 vert. LH	Direction indicator, side, cat. 6 vert. RH	Direction indicator, side, cat. 5 LH	Direction indicator, side, cat. 5 RH	Direction indicator side cat. 6 LH	Direction indicator side cat. 6 RH	Reflex reflector side	Reflex reflector side LH	Reflex reflector side RH											
Style	Style	Tech	Tech	Tech	Tech	Style	Style	Style	Style	Tech	Style	Style											
SAE	SAE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE	ECE/SAE	ECE/SAE	ECE/SAE											
AMP SS 250 mm, overmoulded	6.3 mm receptacles 250 mm	Open ends 250 mm	Amphenol 500 mm	AMP SS 250 mm, overmoulded	6.3 mm receptacles 250 mm	Open ends 250 mm	Amphenol 500 mm	Open ends 500 mm	Open ends 500 mm	Open ends 500 mm	Integrated 2-pin AMP	Open ends 500 mm	Open ends 500 mm										
2PS 013 307-25	2PS 013 307-27	2PS 013 307-29	2PS 013 307-31	2PS 013 307-26	2PS 013 307-28	2PS 013 307-30	2PS 013 307-32	2BM 013 336-00	2BM 013 337-01	2BM 013 337-00	2BM 013 337-03	2BM 013 337-05	2BM 013 337-04	2BM 013 337-06	2BM 013 338-01	2BM 013 338-02	2BM 013 339-01	2BM 013 339-03	2BM 013 339-02	2BM 013 339-04	8RA 013 403-02	8RA 013 347-03	8RA 013 347-04
120	120	120	100	120	120	120	100	50	50	140	50	140	140	140	50	50	50	84	50	84	299	240	240
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
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	12/24	12/24	12/24	12/24			
41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	41 / 47	50	232 / 116	232 / 116	232 / 116	232 / 116	232 / 116	232 / 116	50	50	232 / 116	232 / 116	232 / 116	232 / 116			
3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2			
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	0.7 / 1.4	max. 3.3	max. 3.3	max. 3.3	max. 3.3	max. 3.3	max. 3.3	0.7 / 1.4	0.7 / 1.4	max. 3.3	max. 3.3	max. 3.3	max. 3.3			
208.837.8/17.1	208.837.8/17.1	208.837.8/17.1	208.837.8/17.1	208.837.8/17.1	208.837.8/17.1	208.837.8/17.1	208.837.8/17.1	62/40/18	128/40/25	128/40/25	128/40/25	128/40/25	128/40/25	128/40/25	138.6/40/18	138.6/40/18	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
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2*	2*	2*	2*	2*	2*	2*	2*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1	1	1













SM1 (for all vehicle classes) = luminous intensity min. 4 cd, max. 25 cd
SM2 (only for M1 classes) = luminous intensity min. 0.6 cd, max. 25 cd

																	
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 & 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	AMP SS 250 mm	Open ends 250 mm						
Article number (Packaging index as please add the last figure -1 individual packaging or -7 multiple packaging)	25A 013 323-01	25A 013 323-02	25A 013 323-00	25A 013 324-21	25A 013 324-23	25A 013 324-25	25A 013 324-22	25A 013 324-24	25A 013 324-26	25B 013 341-00	25B 013 342-01	25B 013 342-02	25B 013 342-03	25B 013 342-04	25B 013 399-01	25B 013 399-02	25B 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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Rated 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
Amount 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
FORVIA HELLA Specification HN67101 Classes 6.3 + 7.2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Polarity reversal protection	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Failure protection: current detection, 1 LED off = all off	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Failure protection ISO13207	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Integrated short-circuit protection	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

* further mounting options available on request












** This lamp is also available as a version without electronic pulse.

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	SL: 2/2.8 TL: 0.3/0.8	SL: 2/2.8 TL: 0.3/0.8	SL: 2/2.8 TL: 0.3/0.8	SL: 2/2.8 TL: 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.

											
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 & 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	•	•	•	•	•	•	•	•	•	•	•
Rated 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
Amount 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
FORVIA HELLA Specification HN67101 Classes 6.3 + 7.2	•	•	•	•	•	•	•	•	•	•	•
Polarity reversal protection	•	•	•	•	•	•	•	•	•	•	•
Failure protection: current detection, 1 LED off = all off	•	•	•	•	•	•	•	•	•	•	•
Failure protection ISO13207	•	•	•	•	•	•	•	•	•	•	•
Integrated short-circuit protection	•	•	•	•	•	•	•	•	•	•	•












* further mounting options available on request

** This lamp is also available as a version without electronic pulse.













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 013 333-03**	2BA 013 333-04**	2BA 013 333-01**	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 with 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 & 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)	ZZR 013 345-11	ZZR 013 345-12	ZZR 013 345-13	ZZR 013 345-14	ZZR 013 401-01	ZZR 013 401-02	ZZR 013 401-05	ZZR 013 401-06	ZZR 013 401-03	ZZR 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	•	•	•	•	•	•	•	•	•	•	•
Rated 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
Amount 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
FORVIA HELLA Specification HN67101 Classes 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 (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 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 hor.	Warning lamp amber RH hor.
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 & 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	.	.	.	.	.	.	.	.	.	.	.	.
Rated 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
Amount 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
FORVIA HELLA Specification HN67101 Classes 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

CONNECTOR OVERVIEW

Please refer to the tables on the previous pages for information on which connector and which cabling belongs to which Shapeline product. The following shows what the respective connector types look like.



6.3 mm receptacle



Open ends



QL - Quick Link



Amphenol



Integrated AMP
SUPERSEAL

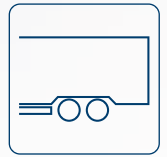


AMP SUPERSEAL



EC - EasyConn straight/
angled

ASSEMBLY INSTRUCTIONS FOR SIDE MARKER LAMPS



Specifically for trailers!

For easy mounting of the Shapeline side marker lamps on the trailer chassis, we offer you special installation angles. The mounting brackets 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 & 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 lamp	Ball pin fixing for the lamp

Other combinations of side marker lamp with reflex reflector / wing are available upon request. You can find more information about side marker lamps on pages 22-25.





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