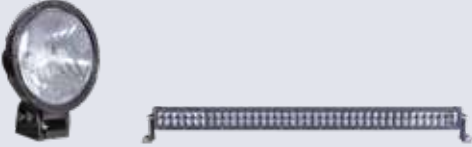




LIGHTING

Spareparts | Accessories

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ERMAX® – YOUR PARTNER FOR COMPLETE LIGHTING SYSTEMS

ERMAX A/S

- develops, manufactures and distributes a wide range of products within lighting, junction boxes and cable systems for commercial vehicles and industrial applications.

A unique set-up with a combination of our factory in Denmark and licensed production with our own tools at a number of selected and exclusively certified partners worldwide, offers an extensive, highly competitive and qualitative range of products.

The Brand – ERMAX®

Founded in 1948 the Ermax® lighting technology has been manufactured for the automotive industry for almost 7 decades.

Ermax is the partner, when it comes to understanding and fulfilling the needs of lighting; with tail lights, warning lights, beacons, side markers or work lights – nowadays bulb, LED as well as in hybrid technologies. These lighting components are being offered within a complete solution concept of ADR approved

cables and, where required, junction boxes as well as mounting hardware. All cable sets are configured with multiple connector types to ensure the best lifetime service ability.

Why Ermax® Lighting Systems ?

Partnership through quality, reliability and competence.

Our competence in partnering with you, is our extensive experience in being an OEM partner with quality and on time delivery as daily focus to ensure expectations and execution match entirely with your requirements.

All our products hold the necessary certifications for E-marking, IP-predction, ADR-approval and design predctions to ensure exclusive design and durability as well as non-violation of patents.

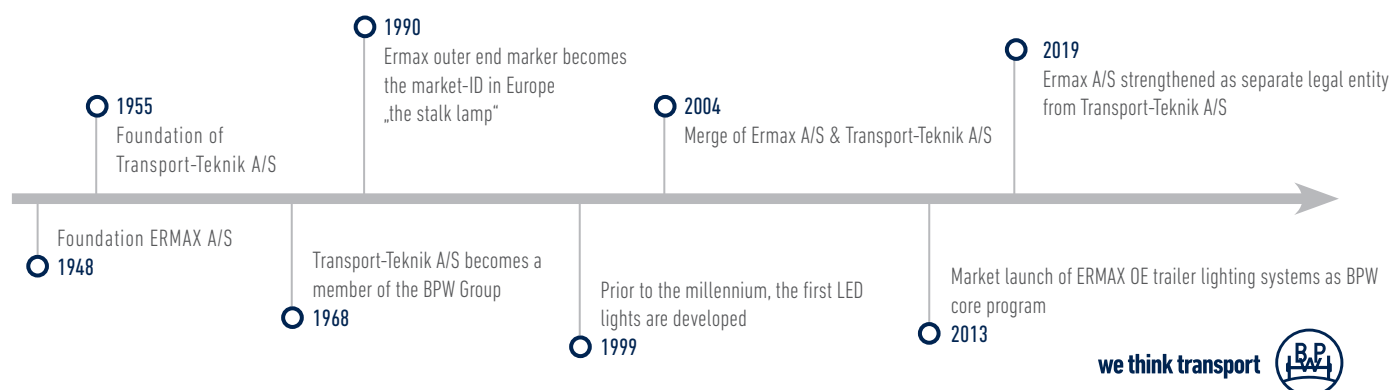
With reliable and planned processes you will reach your goal safely with us as partner.



Transport-Teknik A/S, Kolding, Denmark



Transport-Teknik A/S, Copenhagen, Denmark



DISTRIBUTION NETWORK WORLDWIDE

Always close to you

As a member of the BPW Group, which operates worldwide, we have an unique sales and distribution network with local offices and support for the benefit of all of our business partners.



SOLUTIONS – AS INDIVIDUAL AS YOUR TASKS AND REQUIREMENTS

As ERMAS customer you will achieve the following

- High quality for every area
- Vehicle-customised solutions
- Focus at the newest technology and innovative products with recognisable design
- Production companies with development competence under one roof
- Europe-wide after-sales-servicenet

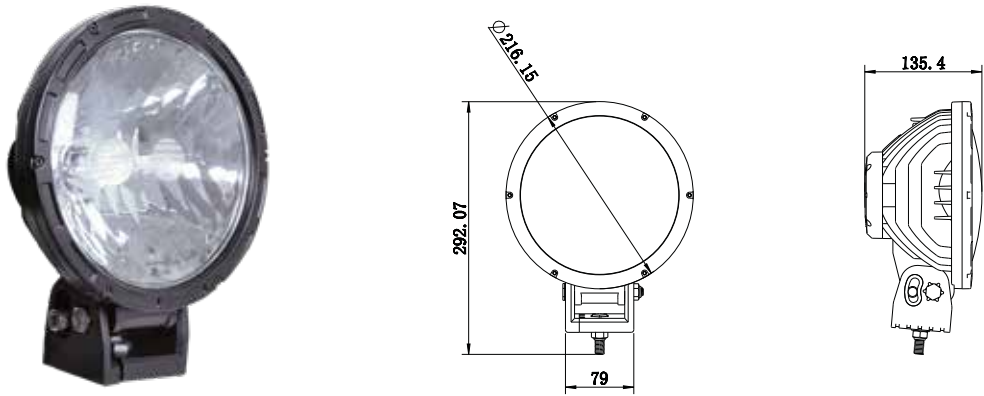
ERMAX lighting systems

- Wide palette including cables, plugs and lights – all built according to customer requirements
- LED and SIMAC control unit built-in tail light
- ADR approved cable kits with 7 pole AMP 1.5 and Super Seal plugs
- Unbeatable, impact resistant and long life solutions



SPOTLIGHTS

Spotlight 9" LED - 3000 Lumen



Spotlight 9" with position light. House in cast aluminum with transparent polycarbonate lens

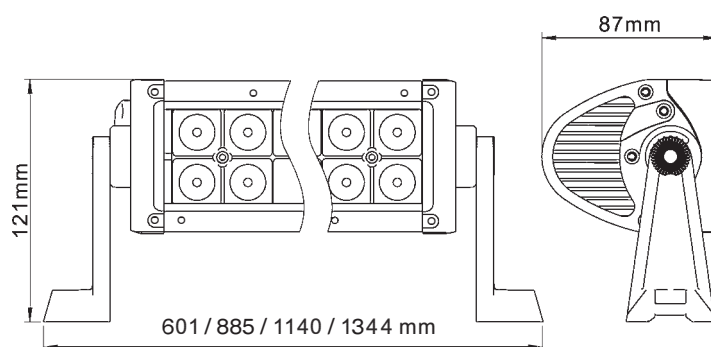
Functions								
Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Article No.
12-36V	IP67	Open end	1500 mm	Ø216x135,4x292 mm	3 x CREE T6 10W 1 LED 1W	30W	-30°C - +50°C	098 144 390

Bracket for work- and spotlights



Functions			
Spare parts	Dimension	Material	Article No.
Bracket for work- and spotlights	31,5 x 30,5 x 17 mm. Ø61-65 mm	Aluminum	098 295 750
Bracket for work- and spotlights	32,5 x 31,5 x 18 mm. Ø66-71 mm	Aluminum	098 295 752

Light bar LED - 8.000 - 19.200 Lumen



Light bar with house in cast aluminum with transparent polycarbonate lens

The light bar can be delivered in 4 different lengths and would be ideal as full-beam for vans and Off-Road vehicles

Working temperature: -45° - +85°C

Functions

Operation voltage	IP Rating	Dimension	Lumen Calculated/ Measured	Connection	Cable length	Consumption	Light pattern	Article No.
9-32V	IP67	20" LED Light bar 601 x 87 x 121mm	8.000 / 4496	Open end	300 mm	120W	Flood/spot/combo	098 144 300
9-32V	IP67	30" LED Light bar 885 x 87 x 121mm	12.000 / 6700	Open end	300 mm	180W	Flood/spot/combo	098 144 302
9-32V	IP67	40" LED Light bar 1140 x 87 x 121mm	16.000 / 9040	Open end	300 mm	240W	Flood/spot/combo	098 144 304
9-32V	IP67	50" LED Light bar 1344 x 87 x 121mm	19.200 / 10.800	Open end	300 mm	288W	Flood/spot/combo	098 144 306



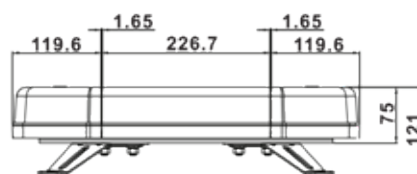
WARNING LIGHTS

Light bar LED

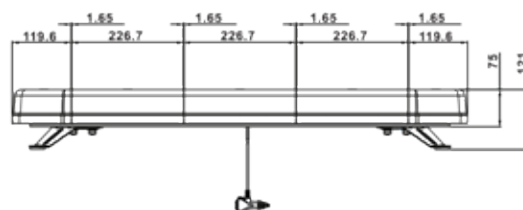
ECE R65 EMC R10



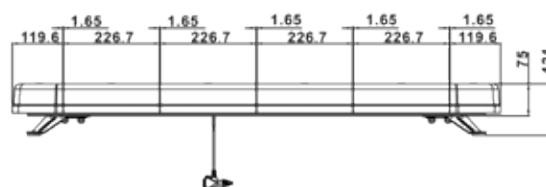
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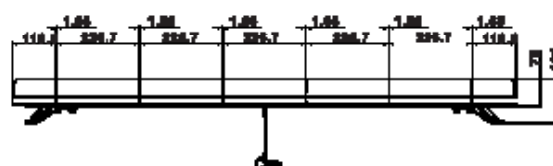
Pos 2



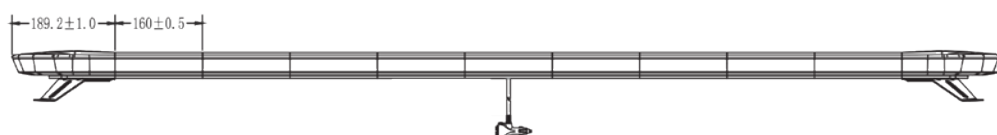
Pos 3



Pos 4



Pos 5



LED Light bars for surface mounting with amber SMD LED
Impact resistant polycarbonate housing and transparent lens
Working temperature -40°C til +65°C
Mounting: Holder

Functions

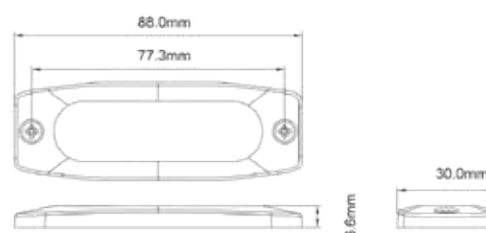
Flash colour	Operation voltage	IP Rating	Connection	Cable length	Lens colour	Dimension	Light source	Flash pattern	Pos	Article No.
	12/24V	IP67	Cigarette plug	2500 mm	Clear	467 x 305 x 75 mm	68 LED	10	1	098 285 850
	12/24V	IP67	Cigarette plug	2500 mm	Clear	931,5 x 305 x 75 mm	132 LED	10	2	098 285 854
	12/24V	IP67	Cigarette plug	2500 mm	Clear	1148,8 x 305 x 75 mm	164 LED	10	3	098 285 858
	12/24V	IP67	Cigarette plug	2500 mm	Yellow	1378,5 x 305 x 75 mm	196 LED	10	4	098 285 808
	12/24V	IP67	Cigarette plug	5000 mm	Yellow	1822 x 226 x 89,5 mm	184 LED	10	5	098 285 820

Warning lights LED

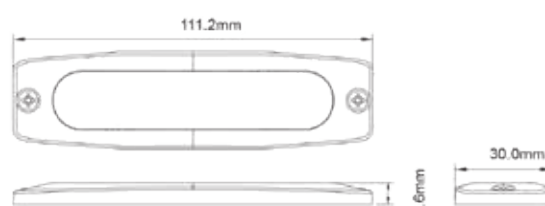
EMC R10



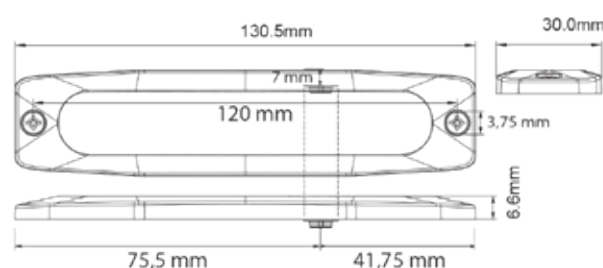
Pos 1



Pos 2



Pos 3



LED Warning lights for surface mounting
Impact resistant polycarbonate housing and transparent lens
Working temperature -30°C til +65°C

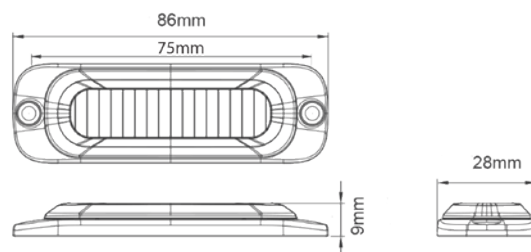
Functions										
Flash colour	Operation voltage	IP Rating	Connection	Cable length	Bolt hole Distance	Dimension	Light source	Flash pattern	Pos	Article No.
	12/24V	IP68	Open end	200 mm	77,3 mm	88 x 6,6 x 30 mm	3 x LED	12	1	098 286 410
	12/24V	IP68	Open end	200 mm	102 mm	111 x 6,6 x 30 mm	4 x LED	23	2	098 286 412
	12/24V	IP68	Open end	200 mm	122 mm	131 x 6,6 x 30 mm	6 x LED	23	3	098 286 414

Warning lights LED

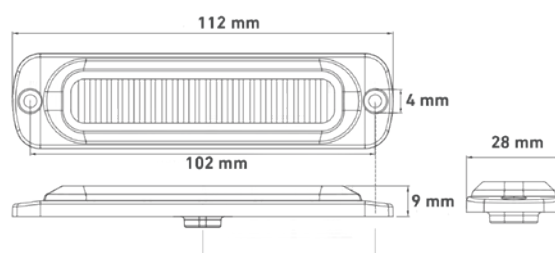
ECE R65 EMC R10



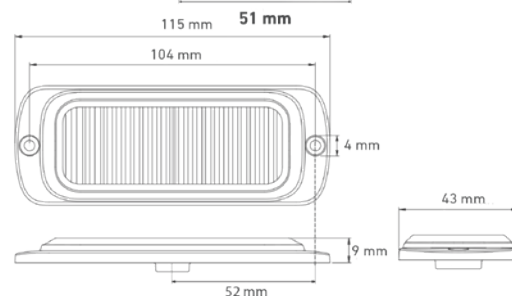
Pos 1



Pos 2



Pos 3



LED Warning lights for surface mounting
Impact resistant polycarbonate housing and transparent lens
Approved for horizontal mounting
Working temperature -30°C til +80°C

Functions

Flash colour	Operation voltage	IP Rating	Connection	Cable length	Bolt hole Distance	Dimension	Light source	Flash pattern	Pos	Article No.
	12/24V	IP68	Open end	2500 mm	75 mm	86 x 9 x 28 mm	3 x LED	12	1	098 286 444
	12/24V	IP68	Open end	2500 mm	100 mm	112 x 9 x 28 mm	6 x LED	19	2	098 286 446
	12/24V	IP68	Open end	2500 mm	104 mm	115 x 9 x 43,4 mm	12 x LED	25	3	098 286 448

Warning lights LED

ECE R65 EMC R10



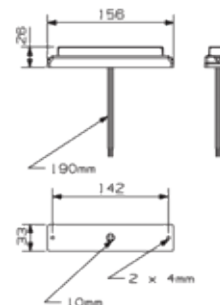
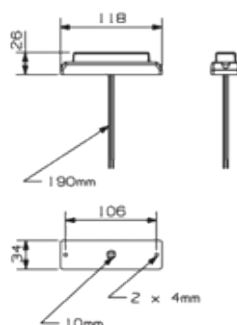
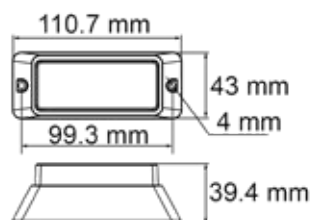
Pos 1



Pos 2



Pos 3



LED Warning lights for surface mounting
Impact resistant polycarbonate housing and lens
Working temperature -30°C - +50°C

*) Only flash pattern 1 and 2 fulfill regulativ 65

Functions

Flash colour	Operation voltage	IP Rating	Connection	Cable length	Bolt hole Distance	Dimension	Light source	Flash pattern	Pos	Article No.
	9-36V	IP67	Open end	180 mm	99 mm	110 x 43 x 37 mm	2 x 3 LED	6	1*	098 286 346
	9-36V	IP67	Open end	170 mm	99 mm	110 x 43 x 37 mm	2 x 3 LED	6	1*	098 286 348
	11-30V	IP67	Open end	170 mm	106 mm	118 x 34 x 26 mm	4 x LED	6	2*	098 286 246
	11-30V	IP67	Open end	170 mm	106mm	118 x 33 x 26 mm	4 x LED	6	2	098 286 248
	11-30V	IP67	Open end	170 mm	142 mm	156 x 33 x 26 mm	6 x LED	2	3	098 286 266

Warning lights LED

ECE R65 EMC



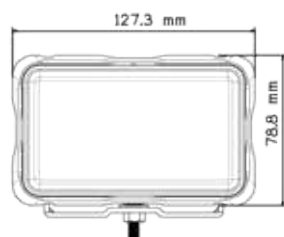
Pos 1



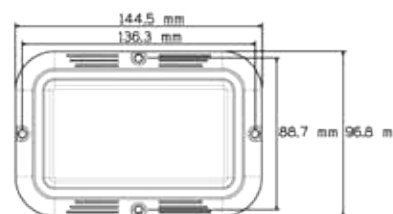
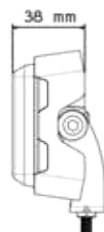
Pos 2



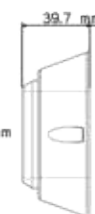
Pos 3



Pos 2



Pos 3



LED Warning lights for surface mounting
Impact resistant polycarbonate housing and lens
Working temperature -30°C - +50°C

*) Only flash pattern 1 and 2 fulfill regulativ 65

Functions

Flash colour	Operation voltage	IP Rating	Connection	Cable length	Bolt hole Distance	Dimension	Light source	Flash pattern	Pos	Article No.
	11-30V	IP67	Open end	200 mm	143 mm	157 x 66 x 33,5 mm	2 x 6 LED	2	1*	098 286 286
	12/24V	IP67	Open end	1800 mm	-	127 x 78,8 x 38 mm	6 x LED	1	2*	098 286 722
	12/24V	IP67	Open end	1800 mm	136 mm	144 x 97 x 40 mm	6 x LED	1	3	098 286 723
	12/24V	IP67	Open end	1800 mm	136 mm	144 x 97 x 40 mm	6 x LED	1	3	098 286 725

Warning lights LED



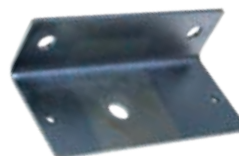
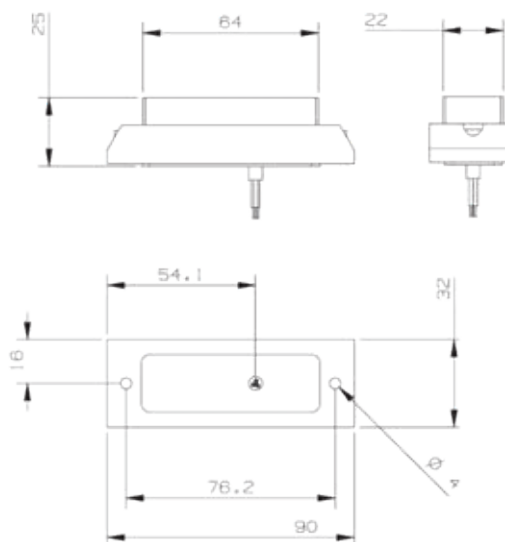
Pos 1



Pos 2



Pos 3



Pos 4

LED Warning lights for surface mounting
Black polycarbonate housing and lens
Approved for horizontal mounting
Working temperature -30°C til +80°C

Functions

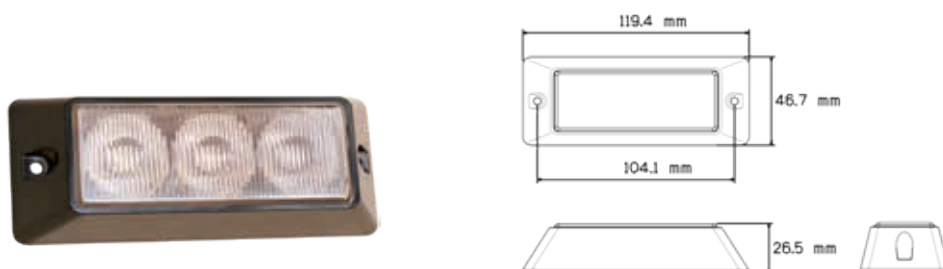
Flash colour	Operation voltage	IP Rating	Connection	Cable length	Bolt hole Distance	Dimension	Light source	Flash pattern	Pos	Article No.
Orange	12/24V	IP67	Open end	150 mm	76,2 mm	90 x 25 x 32 mm	3 x LED	12	1	098 286 326
Clear	12/24V	IP67	Open end	150 mm	76,2 mm	90 x 25 x 32 mm	3 x LED	12	2	098 286 327
Blue	12/24V	IP67	Open end	150 mm	76,2 mm	90 x 25 x 32 mm	3 x LED	12	3	098 286 328

Spare parts

Holder for Warning lights	4	098 296 327
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Warning lights LED

EMC R10



LED Warning lights for surface mounting
 Black polycarbonate housing and lens
 Working temperature -30°C - +50°C

Functions

Flash colour	Operation voltage	IP Rating	Connection	Cable length	Bolt hole Distance	Dimension	Light source	Flash pattern	Article No.
Yellow	12/24V	IP67	Open end	180 mm	104,1 mm	119,4 x 46,7 x 26,5 mm	3 x LED	12	098 286 736
White	12/24V	IP67	Open end	180 mm	104,1 mm	119,4 x 46,7 x 26,5 mm	3 x LED	12	098 286 737
Blue	12/24V	IP67	Open end	180 mm	104,1 mm	119,4 x 46,7 x 26,5 mm	3 x LED	12	098 286 738

Warning lights LED

EMC



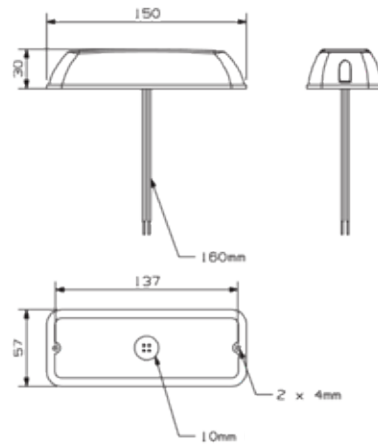
LED Warning lights for surface mounting
 Black polycarbonate housing and impact resistant polycarbonate transparent lens
 Working temperature -30°C - +50°C

Functions

Flash colour	Operation voltage	IP Rating	Connection	Cable length	Bolt hole Distance	Dimension	Light source	Flash pattern	Article No.
Yellow	12/24V	IP67	Open end	180 mm	133,4 mm	46 x 46 x 24,3 mm	4 x LED	13	098 286 716
Blue	12/24V	IP67	Open end	180 mm	133,4 mm	46 x 46 x 24,3 mm	4 x LED	13	098 286 718

Warning lights LED

EMC R10



LED Warning lights for surface mounting
Black polycarbonate housing and lens
Working temperature -20°C til +50°C

Functions

Flash colour	Operation voltage	IP Rating	Connection	Cable length	Bolt hole Distance	Dimension	Light source	Flash pattern	Article No.
	12/24V	IP67	Open end	160 mm	137 mm	150 x 30 x 57 mm	32 x LED	26	098 286 576

Warning lights LED - Hula Blitz

E



Hula-Blitz LED Warning lights for surface mounting
Housing made of die-cast aluminum, splash-proof
ONLY Flashing
Working temperature -20°C til +50°C

Functions

Flash colour	Operation voltage	IP Rating	Connection	Cable length	Bolt hole Distance	Dimension	Light source	Flash pattern	Article No.
	12/24V	IP67	Open end	200 mm	77,5 mm	91 x 26 x 34 mm	2 x LED	1	098 229 937

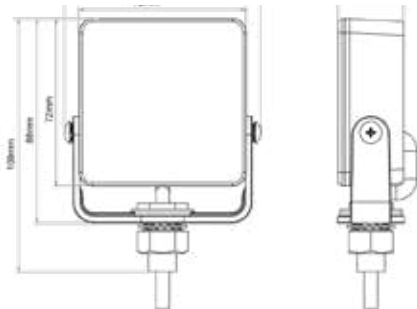
Spare parts

Relay 12V, 3-poled HD13	090 200 132
Relay 24V, 3 poled EG23	090 200 142

Warning lights LED

ECE R65

EMC R10



LED Warning light - mounted upright on bracket
Clear lens and aluminum housing
U-shaped mounting bracket with Ø13mm hole
Reversed polarity protected

Functions									
Flash colour	Operation voltage	IP Rating	Connection	Cable length	Loch Mounting	Dimension	Light source	Flash pattern	Article No.
	10-30V	IP67	Open end	120 mm	Ø13 mm	72 x 72 x 28 mm	4 x LED	5	098 286 290



WARNING BEACONS

Warning lights LED 12/24V

ECE R65

EMC R10



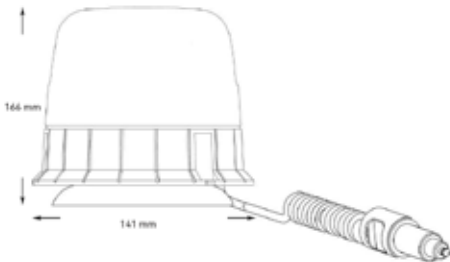
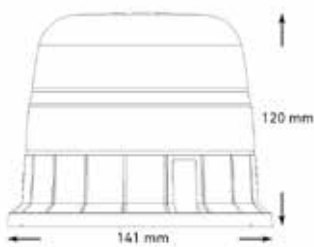
Pos 1



Pos 2



Pos 3



3 various mounting options
Colour: amber
Working temperature: -40°C - +60°C

Functions							
Mounting	IP Rating	Connection	Dimension	Operation voltage	Consumption	Pos	Article No.
Flat mounting	IP69	150 mm cable Open end	Ø141 x 120 mm	10-30V	9W	1	098 287 400
Magnetic base	IP56	2.500 mm coil cable with plug	Ø141 x 166 mm	10-30V	9W	2	098 287 420
For mounting bushes	IP69	Integrated plug in socket	Ø128 x 125 mm	10-30V	9W	3	098 287 410

Warning lights LED 12/24V

ECE R65 EMC R10



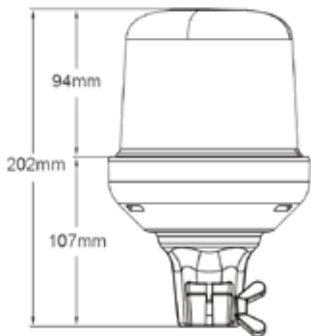
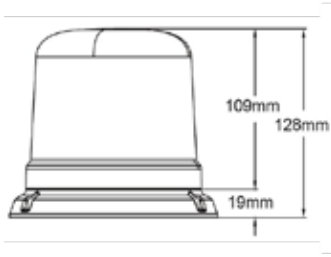
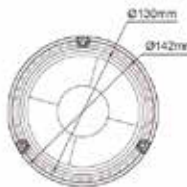
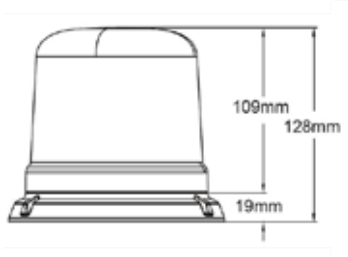
Pos 1



Pos 2



Pos 3



3 various mounting options
Colour: amber
Working temperature: -30°C - +65°C

Functions

Mounting	IP Rating	Connection	Dimension	Consumption (Depending on flash pattern)	Flash pattern	LED Units	Pos	Article No.
Flat mounting	IP66	400 mm cable Open end	Ø142 x 128 mm	21-42W	11	10 x 3W	1	098 287 938
Magnetic base	IP66	3.000 mm coil cable with plug	Ø142 x 128 mm	21-42W	11	10 x 3W	2	098 287 940
For mounting bushes	IP66	Integrated plug in socket	Ø130 x 202 mm	21-42W	11	10 x 3W	3	098 287 936

Warning lights LED 12/24V

ECE R65



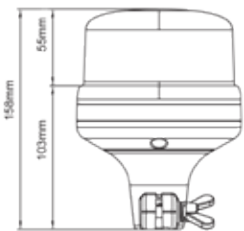
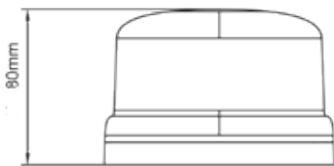
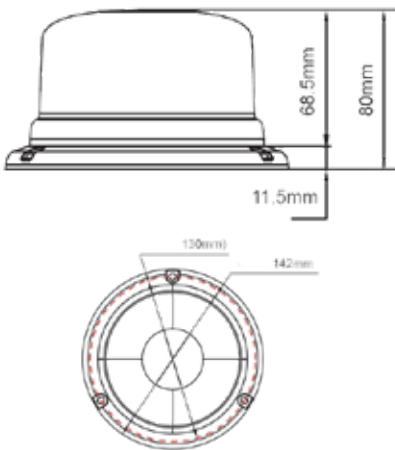
Pos 1



Pos 2



Pos 3



3 various mounting options
Colour: amber
Working temperature: -30°C - +65°C

Functions

Mounting	IP Rating	Connection	Dimension	Consumption (Depending on flash pattern)	Flash pattern	LED Units	Pos	Article No.
Flat mounting	IP66	400 mm cable Open end	Ø142 x 80 mm	15-30W	11	8 x 3W	1	098 287 944
Magnetic base	IP66	3.000 mm coil cable with plug	Ø142 x 80 mm	15-30W	11	8 x 3W	2	098 287 946
For mounting bushes	IP66	Integrated plug in socket	Ø130 x 158 mm	15-30W	11	8 x 3W	3	098 287 942

Warning lights LED 12/24V

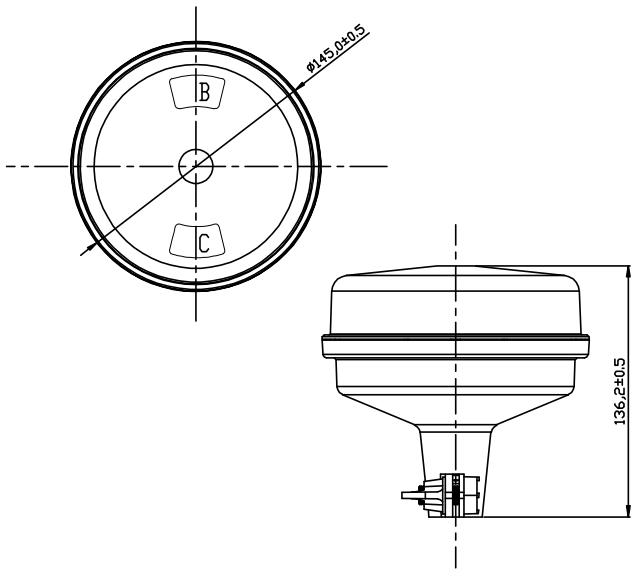
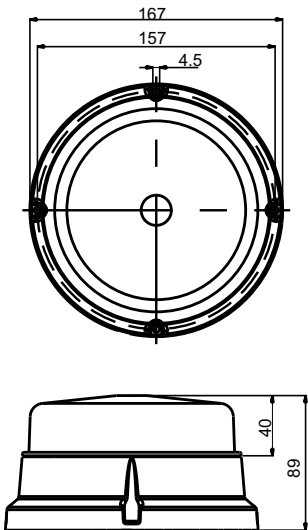
ECE R65 EMC R10



Pos 1



Pos 2



2 various mounting options
Colour: amber
Working temperature: -40°C - +65°C

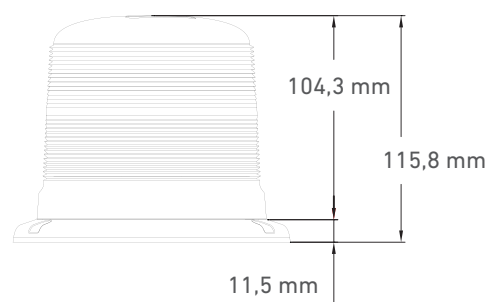
Functions

Mounting	IP Rating	Connection	Dimension	Consumption (Depending on flash pattern)	Flash pattern	LED Units	Pos	Article No.
Flat mounting	IP67	400 mm cable Open end	Ø167 x 89 mm	18-36W	10	8 x 3W	1	098 287 330
For mounting bushes	IP67	Integrated plug in socket	Ø145 x 136,2 mm	18-36W	Single or Redate	12 x 3W	2	098 287 340

Warning lights LED 12/24V

ECE R65

EMC R10



Lens color: Transperant
Flash colour: Blue or amber

Functions

Colour	Mounting	IP Rating	Connection	Working temperature	Dimension	Flash pattern	LED Units	Article No.
	Flat mounting	IPX6	350 mm cable open end	-30°C - +65°C	Ø142 x 115,8 mm	11	30 x LED	098 287 950

Warning lights LED 12/24V (portable)



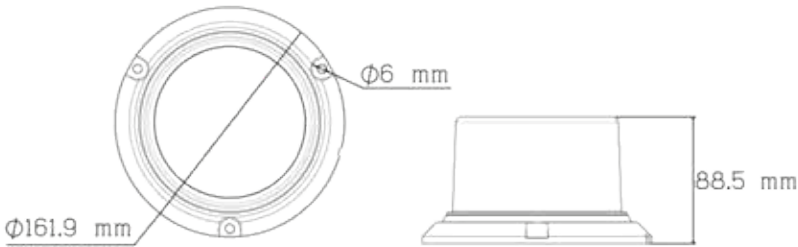
Possible to use the build-in sensor to start flashing when it becomes dark. 300-400 hours of functionality before battery change

Functions

Colour	Mounting	IP Rating	Connection	Working temperature	Dimension	Flash pattern	LED Units	Article No.
	Magnetic base or hanging string	IP54	2 pcs. 1,5V batteries (Excl. batteries)	-30°C - +65°C	Ø100 x 130 mm	60	24 x LED	098 286 100

Warning lights LED 12/24V

ECE R65 EMC R10



For plan mounting and socket of aluminum
Working temperature: -30°C - +50°C

*) ECE regulation 65 approved (for flash pattern no. 1 and 2)

Functions								
Colour	Mounting	IP Rating	Connection	Dimension	Consumption (Depending on flash pattern)	Flash pattern	LED Units	Article No.
	Flat mounting	IP67	270 mm cable Open end	Ø162 x 88,5 mm	5-20W	5	12 x LED	098 287 750

Flashing beacon / Xenon 12-110V

CE



Electronic circuit with xenon discharge tube

Flashing beacon for flange mounting Impact resistant glass with interior Fresnel lens

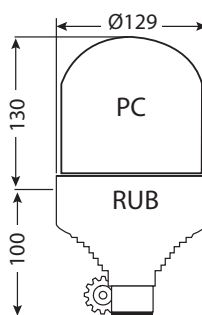
Functions

Colour	Mounting	IP Rating	Connection	Dimension	Working temperature	Consumption	Flash pattern	Light source	Article No.
	Flat mounting	IP54	270 mm cable Open end	Ø128/90 x 93 mm	-30°C - +50°C	Max 6,8W	Single flash Frequency 120/min	Xenon	098 285 753

Rotating beacon Halogen, 12/24V

ECE R65

EMC R10



Rotating beacon, flexible, for mounting bushes DIN 14620-A. Socket, black plastic base and impact resistant lens

Fixed halogen bulb in centre (excl bulb)

Reversed polarity protected

Functions

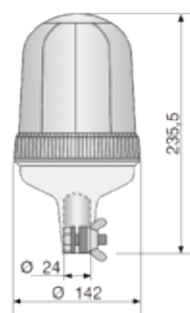
Mounting	IP Rating	Connection	Dimension	Working temperature	Consumption	Reflector	Light source	Article No.
For mounting bushes	IP67	Integrated plug in socket	Ø129 x 230 mm	- 20 - +65°C	H1 55 W / 70 W	160 rpm	Halogen	098 285 346

Spare parts

Lens, impact resistant	098 295 307
Motor unit 12V	098 295 512
Motor unit 24V, sturdy worm gear drive	098 295 524

Rotating beacon Halogen, 12/24V

ECE R65



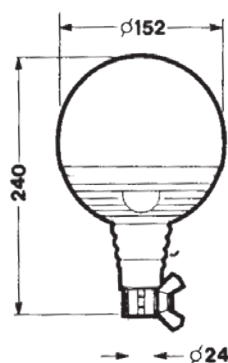
For mounting bushes DIN 14620 - A "ASTRAL"
 Black plastic base and impact resistant lens. Double v-belt
 Fixed halogen bulb in centre for mounting bushes DIN 14620-A
 Working temperature: - 30°C - +50°C

Functions

Mounting	IP Rating	Connection	Dimension	Operation voltage	Consumption	Reflector	Light source	Article No.
For mounting bushes	IP54	Integrated plug in socket	Ø142 x 235,5 mm	12 V	H1 55 W	160 rpm	Halogen	098 285 492
For mounting bushes	IP54	Integrated plug in socket	Ø142 x 235,5 mm	12/24V	H1 55 W / 70W excl. bulb	160 rpm	Halogen	098 285 496

Rotating beacon 12/24V

ECE R65



Mounting bushes with flexible mounting
 Socket, black plastic base and impact resistant lens
 Fixed halogen bulb in centre
 For mounting bushes DIN 14620-A
 "BOULE"
 Working temperature: - 20°C - +65°C
 Radio interference protected VDE / Sturdy worm drive

Functions

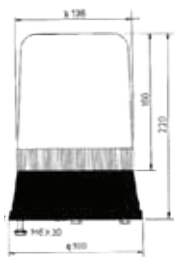
Mounting	IP Rating	Connection	Dimension	Operation voltage	Consumption	Reflector	Light source	Article No.
For mounting bushes	IP67	Integrated plug in socket	Ø152 x 240 mm	12V	H1 55 W	160 rpm	Halogen	098 285 662
For mounting bushes	IP67	Integrated plug in socket	Ø142 x 235,5 mm	24V	H1 70W	160 rpm	Halogen	098 285 664
For mounting bushes	IP67	Integrated plug in socket	Ø142 x 235,5 mm	12/24V	H1 55 W / 70W excl. bulb	160 rpm	Halogen	098 285 666

Rotating beacon 12/24V

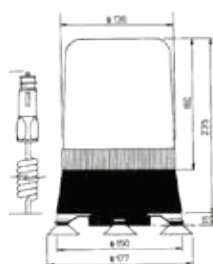
ECE R65



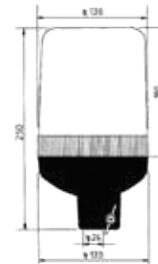
Pos 1



Pos 2



Pos 3



Rotating beacon with black plastic base. Sturdy worm gear drive
 Fixed halogen bulb in centre
 Working temperature: - 30°C - +50°C
 Variant 12/24V is excl. bulb

Functions

Mounting	IP Rating	Connection	Dimension	Operation voltage	Consumption	Reflector	Light source	Pos	Article No.
Flat mounting	IP55	100 mm cable Open end	Ø136 x 220 mm	12V	H1 55 W	160 rpm	Halogen	1	098 285 512
Flat mounting	IP55	100 mm cable Open end	Ø136 x 220 mm	24V	H1 70W	160 rpm	Halogen	1	098 285 514
Flat mounting	IP55	100 mm cable Open end	Ø136 x 220 mm	12/24V	H1 55 W / 70W	160 rpm	Halogen	1	098 285 516
Magnetic base	IP55	2500 mm coil cable with plug	Ø136 x 235 mm	12V	H1 55 W	160 rpm	Halogen	2	098 285 522
Magnetic base	IP55	2500 mm coil cable with plug	Ø136 x 235 mm	24V	H1 70W	160 rpm	Halogen	2	098 285 524
Magnetic base	IP55	2500 mm coil cable with plug	Ø136 x 235 mm	12/24V	H1 55 W / 70W	160 rpm	Halogen	2	098 285 526
For mounting bushes DIN 14 620 - B	IP55	Integrated plug in socket	Ø136 x 250 mm	12V	H1 55 W	160 rpm	Halogen	3	098 285 502
For mounting bushes DIN 14 620 - B	IP55	Integrated plug in socket	Ø136 x 250 mm	24V	H1 70W	160 rpm	Halogen	3	098 285 504
For mounting bushes DIN 14 620 - B	IP55	Integrated plug in socket	Ø136 x 250 mm	12/24V	H1 55 W / 70W	160 rpm	Halogen	3	098 285 506

Spare parts

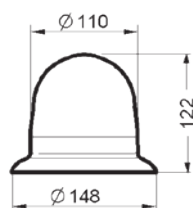
Coil cable with plug	098 295 685
Motor unit 12V	098 295 512
Motor unit 24V	098 295 524
Rubber gasket inclined 10°	098 295 692
Magnetic base	098 295 695
Lens, yellow	098 295 507
Lens, blue	098 295 508
Lens. red	098 295 509

Rotating beacon 12/24V

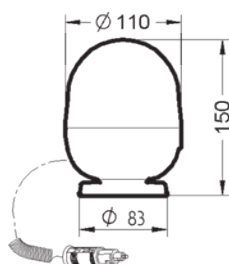
ECE R65



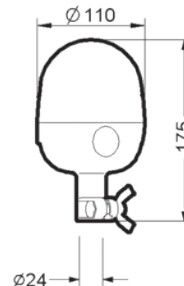
Pos 1



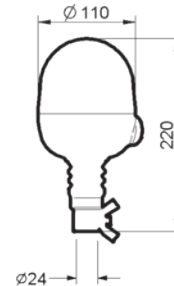
Pos 2



Pos 3



Pos 4



Rotating beacon 12V. For flange mounting with bulb. Sturdy worm drive
Impact resistant polycarbonate lens
Working temperature: - 30°C - +50°C

Functions

Mounting	IP Rating	Connection	Dimension	Operation voltage	Consumption	Reflector	Pos	Article No.
Flat mounting	IP55	Flat plug	Ø148 x 122 mm	12V	H1 55 W	160 rpm	1	098 285 652
Flat mounting	IP55	Flat plug	Ø148 x 122 mm	24V	H1 70W	160 rpm	1	098 285 654
Flat mounting	IP55	Flat plug	Ø148 x 122 mm	12/24V	H1 55 W / 70W excl. bulb	160 rpm	1	098 285 656
Magnetic base	IP55	2500 mm coil cable	Ø110 x 150 mm	12V	H1 55 W	160 rpm	2	098 285 657
Magnetic base	IP55	2500 mm coil cable	Ø110 x 150 mm	24V	H1 70W	160 rpm	2	098 285 658
Magnetic base	IP55	2500 mm coil cable	Ø110 x 150 mm	12/24V	H1 55 W / 70W excl. bulb	160 rpm	2	098 285 659
For mounting bushes	IP55	Integrated plug in socket	Ø110 x 175 mm	12V	H1 55 W	160 rpm	3	098 285 632
For mounting bushes	IP55	Integrated plug in socket	Ø110 x 175 mm	24V	H1 70W	160 rpm	3	098 285 634
For mounting bushes	IP55	Integrated plug in socket	Ø110 x 175 mm	12/24V	H1 55 W / 70W excl. bulb	160 rpm	3	098 285 636
For mounting bushes DIN 14620 - A	IP55	Integrated plug in socket	Ø110 x 220 mm	12V	H1 55 W	160 rpm	4	098 285 672
For mounting bushes DIN 14620 - A	IP55	Integrated plug in socket	Ø110 x 220 mm	24V	H1 70W	160 rpm	4	098 285 674
For mounting bushes DIN 14620 - A	IP55	Integrated plug in socket	Ø110 x 220 mm	12/24V	H1 55 W / 70W excl. bulb	160 rpm	4	098 285 676

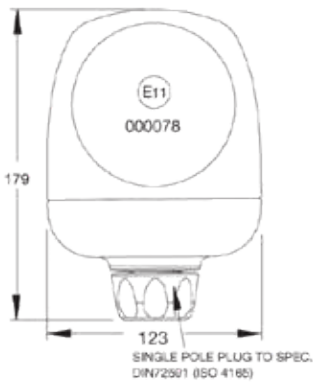
Spare parts

Ermax bulb H1 - 12V 55W, P14,5s	091 112 000
Ermax bulb H1 - 24V 35W	091 124 002

Rotating beacon 12/24V

ECE R65

EMC R10



Plastic base with sturdy worm gear drive. Impact resistant lens
Fixed halogen bulb in centre
Metallized steel reflector with balance counter-weight
Working temperature: - 20°C - +65°C

Functions

Mounting	IP Rating	Connection	Dimension	Operation voltage	Consumption	Reflector	Light source	Article No.
For mounting bushes	IP67	Integrated plug in socket	Ø123 x 179 mm	12 V	H1 55 W	160 rpm	Halogen	098 285 202
For mounting bushes	IP67	Integrated plug in socket	Ø123 x 179 mm	24V	H1 70W	160 rpm	Halogen	098 285 204

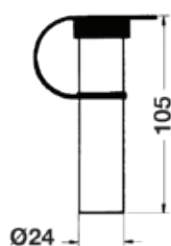
Spare parts

Lens, yellow	098 295 205
Lens, blue	098 295 208

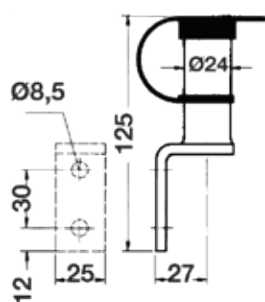
Mounting bracket for rotating beacon



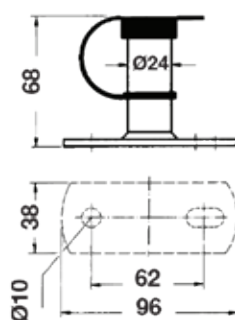
Pos 1



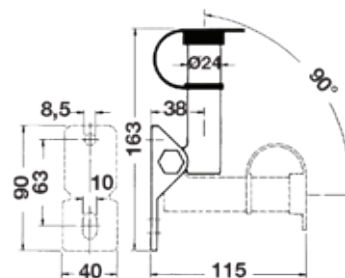
Pos 2



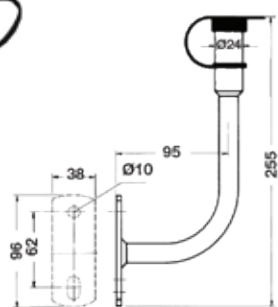
Pos 3



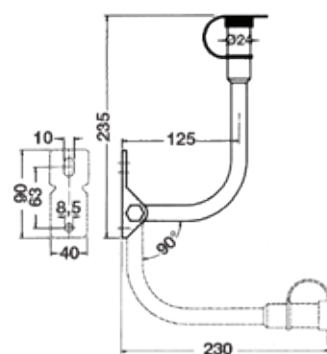
Pos 4



Pos 5



Pos 6



Zinc plated

Functions

DIN Norm	Suitable for	Form	Mounting	Dimension	Connection	Protection cap	Pos	Article No.
DIN 72 591	Universal	Straight	-	Ø24 x 105 mm	2 pin socket	✓	1	098 295 561
DIN 72 591	Universal	Straight	Angled bracket	Ø24 x 125 mm	2 pin socket	✓	2	098 295 562
DIN 72 591	MF 500 Serie	Straight	Flush mounting	Ø125 x 128 mm	2 pin socket	✓	3	098 295 564
DIN 72 591	Universal	Straight	Adjustable bracket	Ø24 x 115	2 pin socket	✓	4	098 295 567
DIN 72 591	Valmet	90° angled	Flush mounting	Ø24 x 255 mm	2 pin socket	✓	5	098 295 565
DIN 72 591	Universal	90° angled	Adjustable bracket	Ø24 x 235	2 pin socket	✓	6	098 295 568

Mounting bracket for rotating beacon



Pos 1



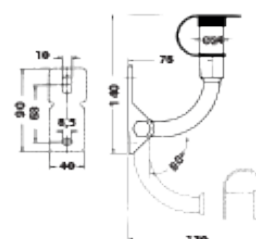
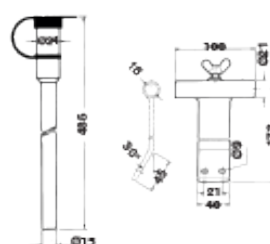
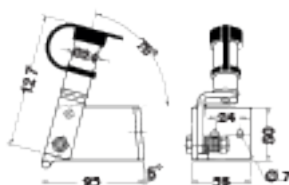
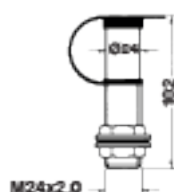
Pos 2



Pos 3



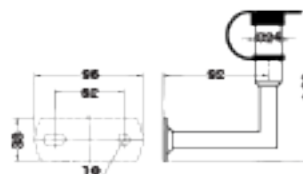
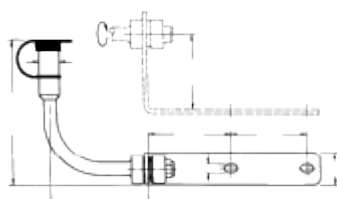
Pos 4



Pos 5



Pos 6

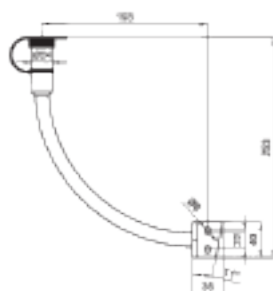
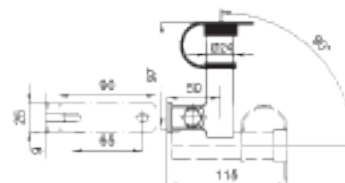
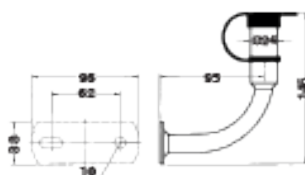
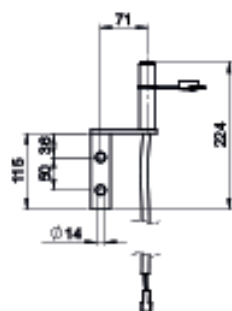


Zinc plated

Functions

DIN Norm	Suitable for	Form	Mounting	Dimension	Connection	Protection cap	Pos	Article No.
DIN 72 591	Universal	Straight	With thread	Ø24 x 102 mm	1 pin socket	✓	1	098 295 563
DIN 72 591	Universal	Straight	On tilt bracket	Ø24 x 127 mm	2 pin socket	✓	2	098 295 572
DIN 72 591	Universal	Straight	Long pole	Ø24 x 485 mm mm	2 pin socket	✓	3	098 295 573
DIN 72 591	Universal	90° Adjustable angled	Adjustable bracket	Ø24 x 115 mm	2 pin socket	✓	4	098 295 575
DIN 72 591	New Holland	90° angled	Flush mounting	Ø24 x 140 mm	2 pin socket	✓	5	098 295 576
DIN 72 591	Volvo	Straight	Horizontal flush mounting	Ø24 x 100 mm	2 pin socket	✓	6	098 295 583

Mounting bracket for rotating beacon



Zinc plated

Functions

DIN Norm	Suitable for	Form	Mounting	Dimension	Connection	Protection cap	Pos	Article No.
DIN 72 591	Valtra	Straight with 300 mm cable	Vertical flush mounting	Ø24 x 100 mm	2 pin socket	✓	1	098 295 584
DIN 72 591	John Deere	90° angled	Horizontal flush mounting	Ø24 x 145 mm	2 pin socket	✓	2	098 295 587
DIN 72 591	Universal	Straight Adjustable	flush mounting	Ø24 x 97 mm	2 pin socket	✓	3	098 295 590
DIN 72 591	John Deere	90° angled	Horizontal flush mounting	Ø24 x 253mm	2 pin socket	✓	4	098 295 592
DIN 72 591	John Deere	90° angled	Vertical flush mounting	Ø24 x 134 mm	2 pin socket	✓	5	098 295 594

Spare parts - Mounting bracket for rotating beacon



Pos 1



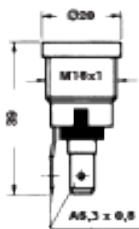
Pos 2



Pos 3



Pos 4



Spare parts

	Pos	Article No.
Socket, 2 pin DIN 72 591	1	098 295 650
Socket, 1 pin DIN 72 591	2	098 295 651
Protection cap	3	098 295 560
Protection cap	4	098 295 599



WORKING LIGHTS

Lumen specification

The working lights in the following section are specified with a theoretical and an effective lumen

The theoretical lumen is the calculated lumen of the light source

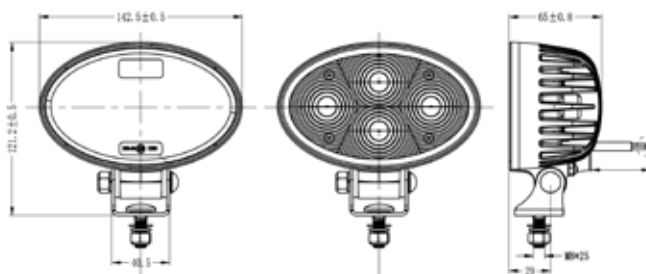
The effective lumen is the light measured outside the lens



Warning- / Working lights LED - 300 / 170 Lumen "Blue Spot"

EMC

For industrial equipment and forklift trucks



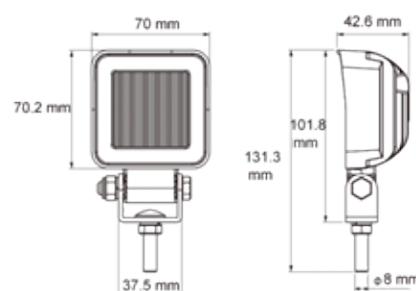
Black aluminum housing with cooling fins. Mounting bolt M8
Impact resistant polycarbonate lens

Functions

Light-Colour	Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
	10-48V	IP67	Open end	500 mm	122 x 143 x 65 mm	6 x LED Blue	12 W	-40° - +65°C	Spot	098 174 005

Working lights LED - 700 / 450 Lumen

EMC



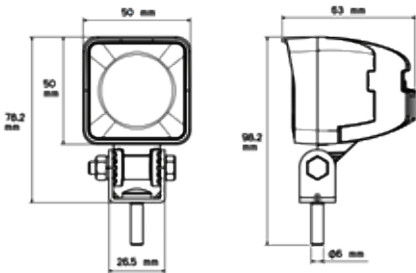
Black aluminum housing with cooling fins. Mounting bolt M8
Compact and very easy to mount
Polycarbonate lens

PREMIUM**Functions**

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
12-36V	IP69K	Open end	300 mm	70 x 70 x 43 mm	3 x LED High Power	9 W	-30°C - +50°C	Flood	098 174 070

Working lights LED - 800 / 550 Lumen

EMC



Black aluminum housing
Impact resistant polycarbonate lens
Mounting bolt M8

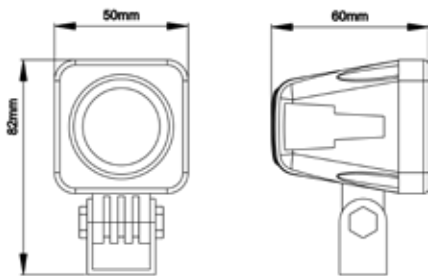
PREMIUM

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
12-36V	IP69K	Open end	320 mm	50 x 50 x 63 mm	1 x LED	10 W	-30°C - +50°C	Flood	098 174 050

Working lights LED - 800 / 600 Lumen

EMC



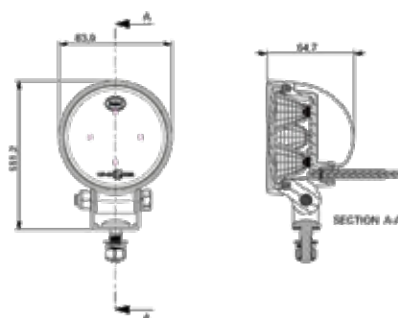
Black aluminum housing with cooling fins
Polycarbonate lens

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
9-32V	IP67	Open end	300 mm	82x50x60 mm	1 x LED	10W	-45° - +85°C	Flood	910 174 525

Working lights LED - 1000 / 700 Lumen

EMC



Black aluminum housing with cooling fins. Mounting bolt M8
Impact resistant polycarbonate lens

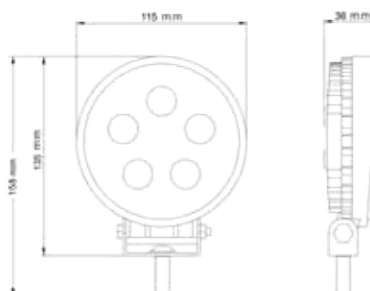
PREMIUM

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
10-30V	IP67	Open end	500 mm	Ø84 x 65 mm	4 x LED High Power	12 W	-40°C - +65°C	Flood	098 174 080
10-30V	IP67	Super Seal socket	500 mm	Ø84 x 65 mm	4 x LED High Power	12 W	-40°C - +65°C	Flood	098 174 086

Working lights LED - 1100 / 900 Lumen

EMC



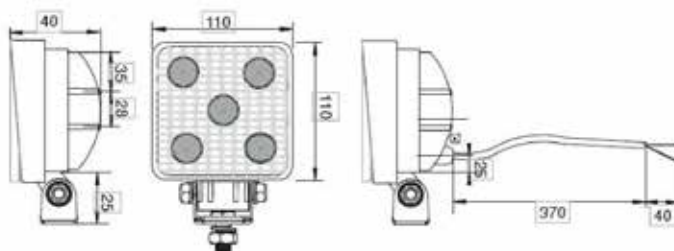
Black aluminum housing with cooling fins. Mounting bolt M8
Polycarbonate lens

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
9-32V	IP67	Open end	300 mm	115x115x43 mm	5 x LED	15W	-45° - +85°C	Flood	910 174 220

Working lights LED - 1200 / 700 Lumen

EMC



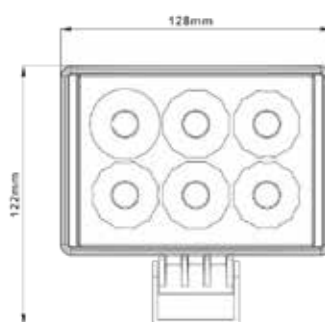
Black aluminum housing with cooling fins
Polycarbonate lens

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
9-32V	IP67	Open end	500 mm	110x110x40 mm	5 x LED	15W	-45° - +85°C	Flood	910 174 200

Working lights LED - 1400 / 950 Lumen

EMC

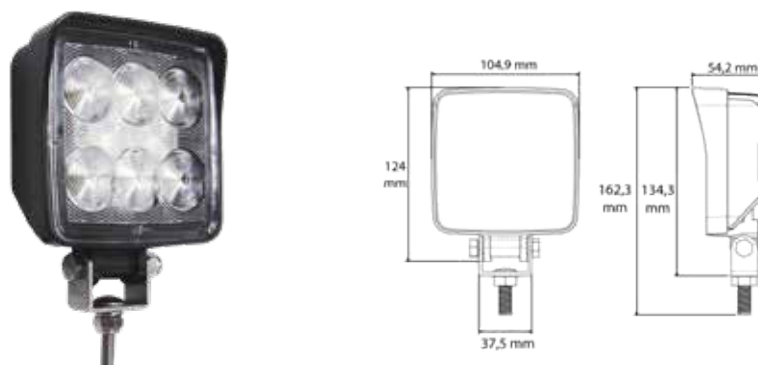


Black aluminum housing with cooling fins
Polycarbonate lens

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
9-32V	IP67	Open end	500 mm	157x120x192 mm	8 x LED	15W	-30° - +60°C	Flood / Spot Combo	910 174 240

Working lights LED - 1400 / 1000 Lumen



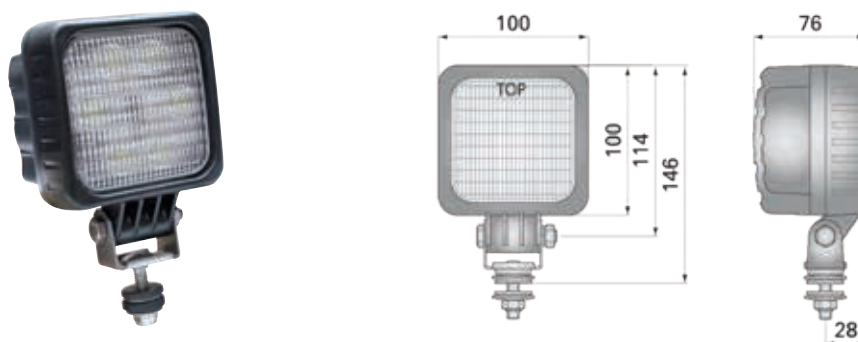
Black aluminum housing with cooling fins. Mounting bolt M8
Impact resistant polycarbonate lens. Stainless steel mounting bracket
Tested as reversing light 30 ° inclination with vertical mounting

PREMIUM

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
9-36V	IP69K	Open end	280 mm	125 x 125 x 54 mm	6 x LED	18 W	-30°C - +50°C	Flood	098 174 145
9-36V	IP69K	Super Seal socket	200 mm	125 x 125 x 54 mm	6 x LED	18 W	-30°C - +50°C	Flood	098 174 147

Working lights LED - 1800/1200 Lumen



Black aluminum housing with cooling fins and mounting bracket with bolt. Mounting bolt M8
Integrated protection against over voltage and reverse polarity

Functions

Operation voltage	IP Rating	Connection	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
12-24 V	IP68	2 pin AMP	100 x 100 x 76 mm	6 x LED "Cree"	29W	-40° - +60°C	Flood	098 174 300
12-24 V	IP68	2 pin Deutsch plug	100 x 100 x 76 mm	6 x LED "Cree"	29W	-40° - +60°C	Spot	098 174 305

Working lights LED - 1800 / 1200 Lumen

EMC



Black aluminum housing with cooling fins
With 360° swivelling bracket made of stainless steel

ON/OFF SWITCH

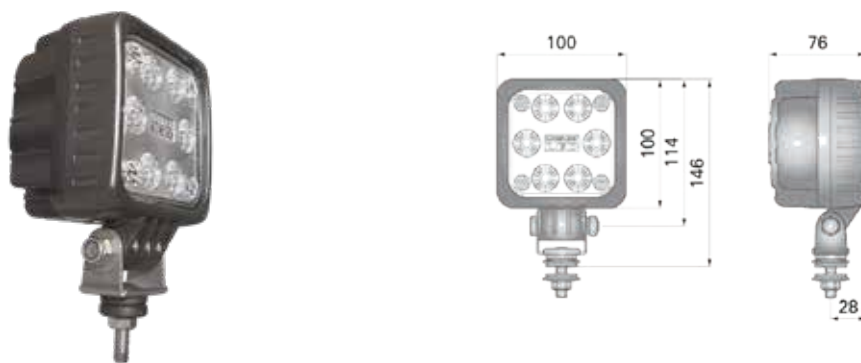
PREMIUM

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
12/24V	IP69K	Super Seal socket	500 mm	128 x 128 x 81 mm	4 x LED "Cree"	18W	-40°C - +50°C	Flood	098 174 630

Working lights LED - 1800 / 1200 Lumen

EMC



Black aluminum housing
Mounting bolt M8

*ON/OFF SWITCH

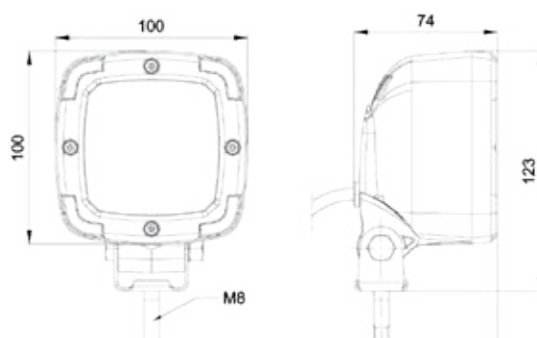
Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
12-24 V	IP68	Open end	500 mm	100 x 100 x 76 mm	6 x LED "Cree"	22W	-40° - +60°C	Flood	098 174 320
12-24 V	IP68	2 pin Deutsch plug	---	100 x 100 x 76 mm	6 x LED "Cree"	22W	-40° - +60°C	Flood	098 174 325
12/24V	IP68	Super Seal plug	1.500 mm	100 x 100 x 76 mm	6 x LED "Cree"	22 W	-45°C - +85°C	Flood	*098 174 330

Working lights LED - 1800 / 1300* Lumen



098 174 495 - *2000 / 1300 Lumen



Black plastic housing with ventilation for cooling
 Tilttable bracket with M8 screw for mounting
 No risk of icing as the lens gets warm when the light is turned on

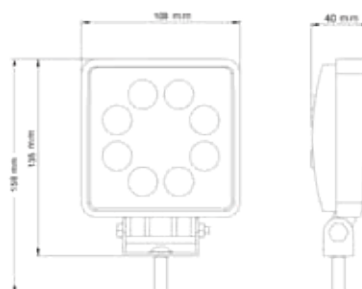
PREMIUM

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
10-50V	IP68	Open end	1.400 mm	100 x 100 x74 mm	9 x LED	15W	-40°C - +35°C	Flood	098 174 490
10-50V	IP68	Super Seal socket	3.000 mm	100 x 100 x74 mm	9 x LED	15W	-40°C - +35°C	Flood	098 174 491
10-50V	IP68	Open end	3.000 mm	100 x 100 x74 mm	9 x LED	15W	-40°C - +35°C	Flood	098 174 493
10-50V	IP68	Super Seal socket	3.000 mm	100 x 100 x74 mm	9 x LED	15W	-40°C - +35°C	Flood	098 174 494
10-50V	IP68	Super Seal socket	6.000 mm	100 x 100 x74 mm	9 x LED	15W	-40°C - +35°C	Flood	098 174 497
10-50V	IP68	Super Seal socket	6.000 mm	100 x 100 x74 mm	9 x LED	15W	-40°C - +35°C	Flood	098 174 499
10-50V	IP68	Coiled cable	6.000 mm	100 x 100 x74 mm	9 x LED	15W	-40°C - +35°C	Flood	098 174 495
10-50V	IP68	Integrated Deutsch-socket		100 x 100 x74 mm	9 x LED	15W	-40°C - +35°C	Flood	098 174 505

Working lights LED - 1800 / 1400 Lumen

EMC



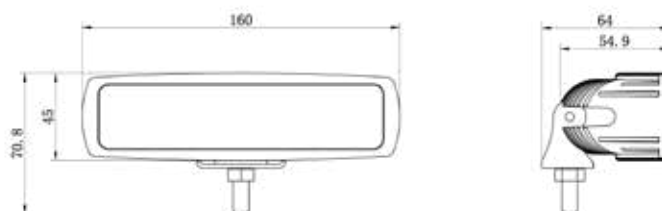
Black aluminum housing with cooling fins and mounting bracket with bolt
Polycarbonate lens

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
9-32V	IP67	Open end	200 mm	108x108x40 mm	8 x LED	24W	-45° - +85°C	Flood	910 174 215

Working lights LED - 1800 / 1400 Lumen

EMC



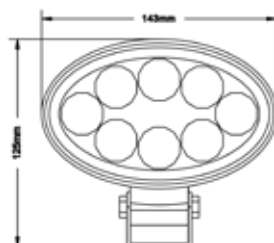
Black aluminum housing with cooling fins and mounting bracket with bolt
Polycarbonate lens

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
9-32V	IP67	Open end	300 mm	45x160x55 mm	6 x LED	36W	-45° - +85°C	Flood	910 174 205

Working lights LED - 1800 / 1400 Lumen

EMC



Black aluminum housing with cooling fins
Polycarbonate lens

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
9-32V	IP67	Open end	300 mm	125x143x60 mm	8 x LED	24W	-45° - +85°C	Flood	910 174 230

Working lights LED - 2000/1400 Lumen

EMC



Black aluminum housing with cooling fins and mounting bracket in stainless steel with mounting bolt M8

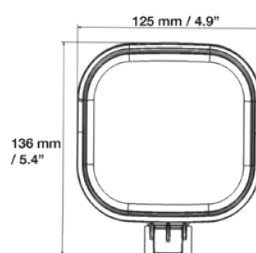
PREMIUM

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Flash pattern	Article No.
10-30V	IP67	Open end	500 mm	143 x 130 x 65 mm	8 x LED	24W	-40°C - +65°C	Flood	098 174 095

Working lights LED - 2100/1500* Lumen

EMC



Black aluminum housing
Impact resistant polycarbonate lens. Mounting bracket in stainless steel
Mounting bolt M8
*098 174 141 - 2100/1300 Lumen

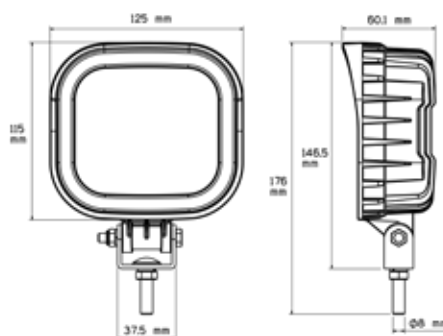
PREMIUM

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Con- sumption	Working temperature	Light pattern	ADR	Article No.
12-36V	IP69K	Open end	280 mm	125 x 125 x 60 mm	9 x LED	20 W	-30°C - +50°C	Flood		098 174 140
12-36V	IP69K	Open end	280 mm	125 x 125 x 60 mm	9 x LED	20 W	-30°C - +50°C	Spot		098 174 141
12-36V	IP69K	Open end	1.500 mm	125 x 125 x 60 mm	9 x LED	20 W	-30°C - +50°C	Flood		098 174 143
12-36V	IP69K	Super Seal socket	280 mm	125 x 125 x 60 mm	9 x LED	20 W	-30°C - +50°C	Flood		098 174 142
12-36V	IP69K	Integratet Deutsch connector		136 x 125 x 60 mm	9 x LED	20 W	-30°C - +50°C	Flood		098 174 144
12-36V	IP69K	Open end	2.500 mm	125 x 125 x 60 mm	9 x LED	20 W	-30°C - +50°C	Flood		098 174 340

Working lights LED - 2100/1500 Lumen

EMC



Black aluminum housing with cooling fins and mounting bracket in stainless steel with mounting bolt M8

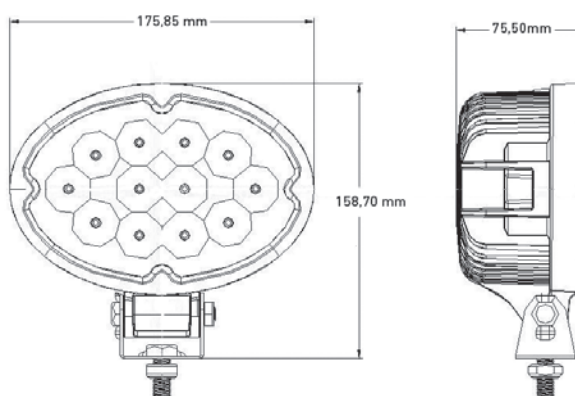
PREMIUM

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
10-80 V	IP69K	Open end	280 mm	115 x 125 x 60 mm	9 x LED	28W	-30° - +50°C	Flood	098 174 139

Working lights LED - 2700/2200 Lumen

EMC



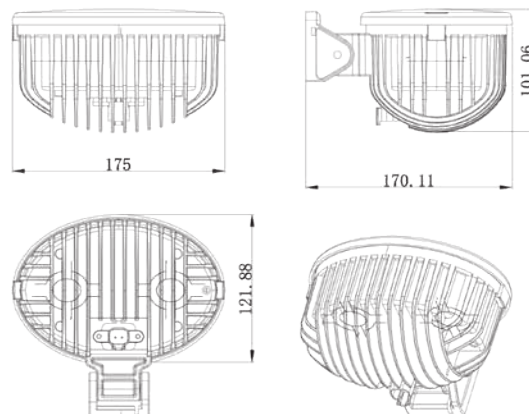
Black aluminum housing with cooling fins and mounting bracket
Polycarbonate lens

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
9-32V	IP67	Open end	300 mm	158 x 176 x 76 mm	12 x LED	36W	-45° - +85°C	Flood	910 174 235

Working lights LED - 3000/1400 Lumen

EMC



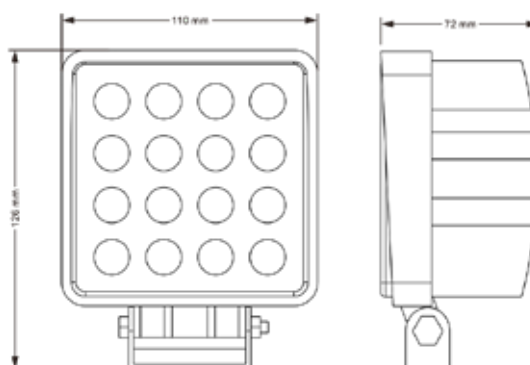
Black aluminum housing with cooling fins and mounting bracket in stainless steel
Polycarbonate lens

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
12-36V	IP67	Open end	1,500 mm	122 x 175 x 170 mm	4 x LED	36W	-30°C - +50°C	Spot	910 174 250

Working lights LED - 3070/1600 Lumen

EMC

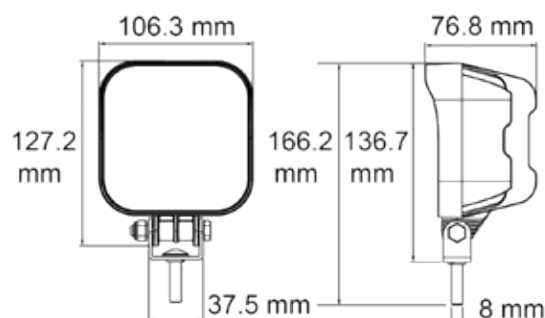


Black aluminum housing with cooling fins and mounting bracket
Polycarbonate lens

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
9 - 32V	IP67	Open end	1.500 mm	110 x 110 x 72 mm	16 x LED	48W	-45°C - +85°C	Flood	910 174 210

Working lights LED - 3200/2200 Lumen



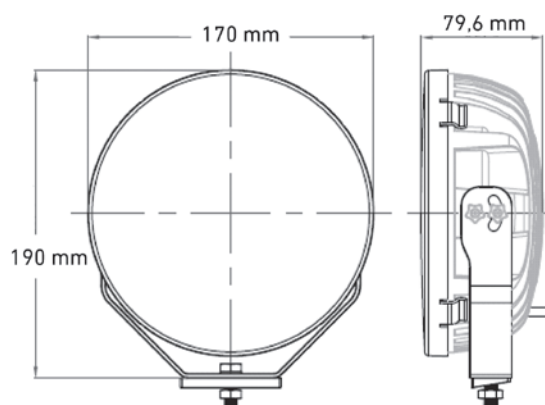
Black aluminum housing with cooling fins and mounting bracket in stainless steel with mounting bolt M8
Impact resistant plastic lens

PREMIUM

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
12-36V	IP69K	Open end	1,650 mm	106 x 106 x 77 mm	4 x LED	40W	-45°C - +85°C	Flood	098 174 149

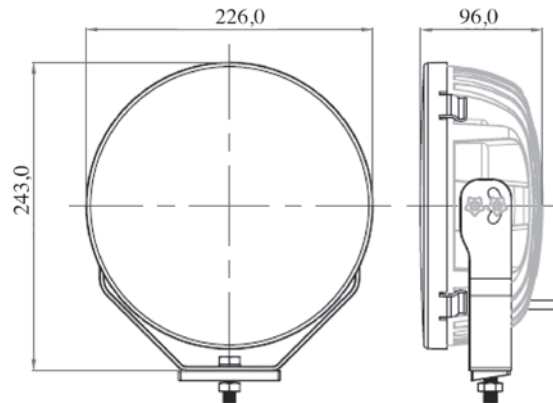
Working lights LED - 5600/4500 Lumen



Black aluminum housing and mounting bracket in stainless steel
Polycarbonate lens
Delivered with 250 mm cable and Deutsch socket

Functions

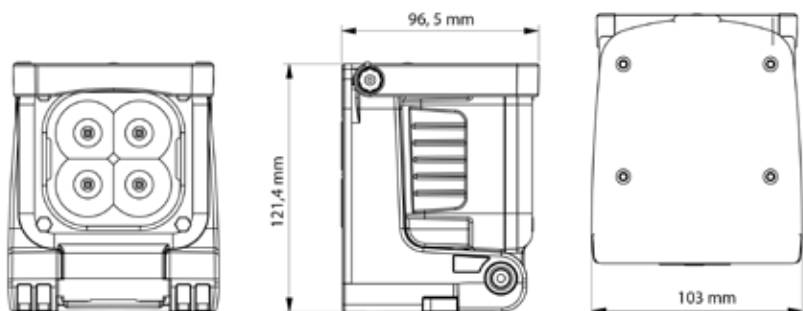
Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
10-30 V	IP67	Deutsch socket	250 mm	Ø170 x 79,6 mm	7 x LED	7* 10W	-30° - +65°C	Flood	098 174 230

Working lights LED - 9600/7400 Lumen

Black aluminum housing and mounting bracket in stainless steel
 Polycarbonate lens
 Delivered with 250 mm cable and Deutsch socket

Functions

Operation voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Light pattern	Article No.
10-30V	IP67	Deutsch socket	250 mm	Ø226 x 96 mm	12 x LED	12* 10W	-45° - +65°C	Flood	098 174 235

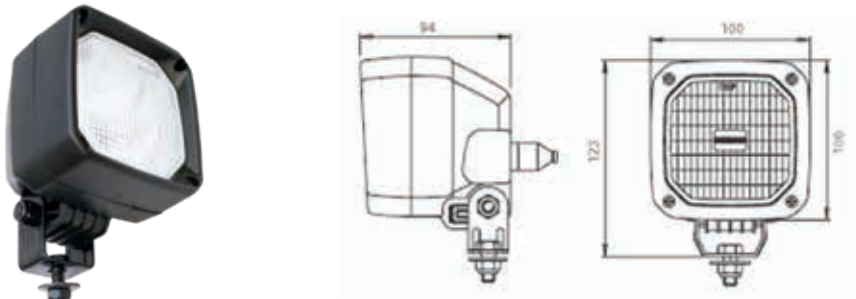
Working lights LED - 400/280 Lumen (Transportabel)

Black aluminum housing with cooling fins, handle, switch and magnetic base
 Plastic lens
 Charging time: 6,5-8 hours

Functions

	IP Rating	Battery consumption	Dimension	Light source	Consumption	Light pattern	Article No.
Cigarette plug / USB charging	IP65	High brightness: 1,5 hour Low brightness: 3 hours SOS: 4 hours	121,4 x 96,5 x 103 mm	4 x LED	12/8W	Flood	098 178 150

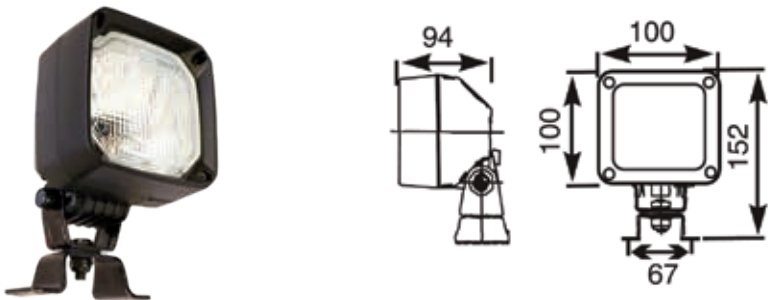
Working lights H3



Black impact plastic housing with M8 fixing bolt
Mineral-glass lens which provides a wide and intensive light pattern

Functions							
Operation voltage	IP Rating	Connection	Dimension	Consumption	Working temperature	Light aperture	Article No.
12/24V	IP66	Built in 2 x 6,3 mm blade with rubber grommet	100x100x94 mm	H3 55 / 70W	-40° - +50°C	74 x 74 mm	098 173 580

Working lights H3



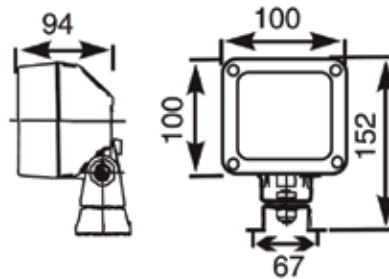
Black impact plastic housing with M8 fixing bolt
Mineral-glass lens which provides a wide and intensive light pattern
Vibration damped mounting bracket

Functions							
Operation voltage	IP Rating	Connection	Dimension	Consumption	Working temperature	Light aperture	Article No.
12/24V	IP66	Built in 2 x 6,3 mm blade with rubber grommet	100x100x94 mm	H3 55 / 70W	-40° - +50°C	74 x 74 mm	098 173 585

Spare parts

Rubber grommet	098 193 958
Mounting bracket	098 192 972

Working lights H3



Black impact plastic housing with M8 fixing bolt
 Mineral-glass lens which provides a wide and intensive light pattern
 Vibration damped mounting bracket
 Bolt hole Distance mounting bracket: 27/67 mm
 Delivered without bulb

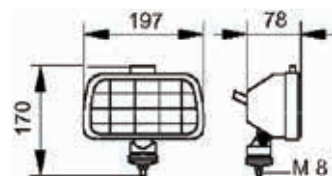
Functions

Operation voltage	IP Rating	Connection	Dimension	Consumption	Working temperature	Light aperture	Article No.
12V	IP66	Built in 2 x 6,3 mm blade with rubber grommet	100x100x94 mm	H3 55 / 70W	-40° - +50°C	74 x 74 mm	098 173 590
24V	IP66	Built in 2 x 6,3 mm blade with rubber grommet	100x100x94 mm	H3 55 / 70W	-40° - +50°C	74 x 74 mm	098 173 594
12/24V	IP66	Built in 2 x 6,3 mm blade with rubber grommet on/off switch	100x100x94 mm	H3 55 / 70W	-40° - +50°C	74 x 74 mm	098 173 720

Spare parts

Rubber grommet	098 193 958
Mounting bracket	098 192 972

Working lights H3

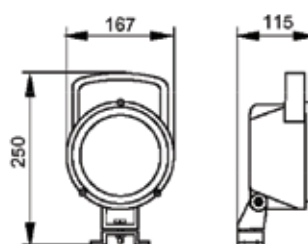


Black impact plastic housing with M8 fixing bolt
 With switch, handle and grid
 Mineral-glass lens which provides a wide and intensive light pattern

Functions

Operation voltage	IP Rating	Connection	Dimension	Consumption	Working temperature	Light aperture	Article No.
12/24V	IP54	2x 6,3 mm Flat plug with 100 mm cable	197x100x78 mm	H3 55 / 70W	-40° - +50°C	158 x 72 mm	098 173 420

Working lights H3



Black impact plastic housing with mounting bracket
 With switch and handle
 Mineral-glass lens intensive illumination of working area

ON/OFF SWITCH

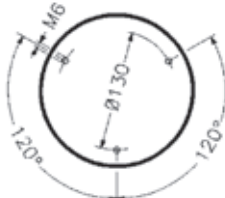
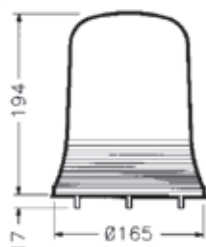
Functions

Operation voltage	IP Rating	Connection	Dimension	Consumption	Working temperature	Light aperture	Article No.
12/24V	IP56	Rubber grommet	Ø167 x 115 mm	H3 55 / 70W	-40° - +50°C	Ø140 mm	098 173 440

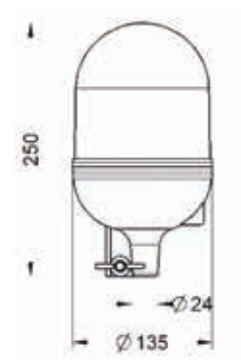
Search light 12V - Wireless remote control



Pos 1



Pos 2



Black fibre-glass reinforced nylon housing with clear polycarbonate cap
 Impact glass lens and metal bowl
 Supplied complete with H1 bulb and wireless remote control unit with bracket

Functions

Operation voltage	IP Rating	Rotating 360° horizontal / 260° vertical	Working temperature	Connection	Mounting	Operating range	Dimension	Pos	Article No.
12V	IP55	✓	-30°C - +50°C	Integrated plug in socket	For mounting bushes DIN 14620-B	150 M	Ø135x250 mm	1	098 182 112
24V	IP55	✓	-30°C - +50°C	Integrated plug in socket	For mounting bushes DIN 14620-B	150 M	Ø135x250 mm	1	098 182 114
24V	IP55	✓	-30°C - +50°C	Cable lead through rubber grommet	Plan DIN 14620-A/B	150 M	Ø165x194 mm	2	098 182 115

Spare parts

Impact lens for 098 182 112 + 114	1	098 295 118
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TAIL LIGHTS

TRAILER

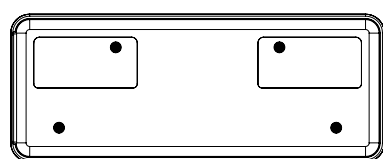
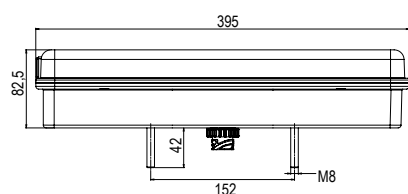
TM 10 LED - Tail lights 24V, Hybrid or Full-LED for trailer



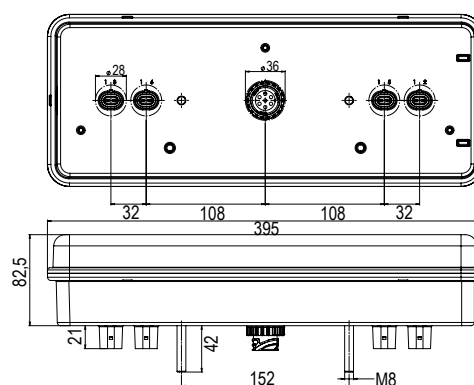
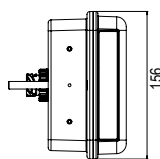
Hybrid



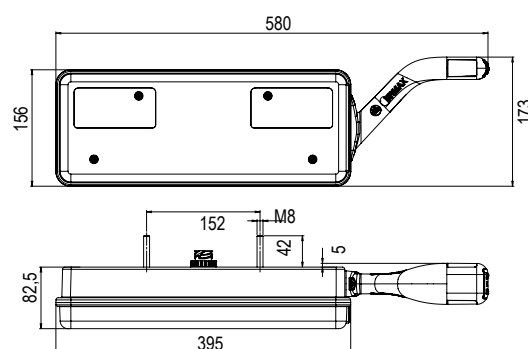
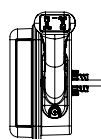
Full-LED



AMP placed on the back

AMP and 2x2 Super Seal
placed on the back

Ex: with outer end marker light



Description

Black aluminum housing
 Polycarbonate lens
 Dimension: B x H x T: 390 x 155 x 80 mm
 Bolt hole distance - center to center: 152 mm
 Application: Universal



7 poled AMP 1.5 socket

*) Super Seal Functions for position-, stop-, reverse and rear fog

TM 10 LED - Tail lights 24V, Hybrid or Full-LED for trailer

Functions											
Application	Type	Operation voltage	IP Rating	Right → Left ←	Position Stop Dir. indicator Reverse Rear fog Sidemarker Reflex reflector	License plate	Outer end marker	Connection 7 poled AMP 1,5 socket Placed:	2x2 Super Seal placed on the back *	Article No.	
Universal	Hybrid	24V	IP54	→	✓			Backwards		098 216 400	
Universal	Hybrid	24V	IP54	←	✓			Backwards		098 216 401	
Universal	Hybrid	24V	IP54	→	✓	✓		Backwards		098 216 402	
Universal	Hybrid	24V	IP54	←	✓	✓		Backwards		098 216 403	
Universal	Hybrid	24V	IP54	→	✓			Backwards	✓	098 216 404	
Universal	Hybrid	24V	IP54	←	✓			Backwards	✓	098 216 405	
Universal	Hybrid	24V	IP54	→	✓	✓		Backwards	✓	098 216 406	
Universal	Hybrid	24V	IP54	←	✓	✓		Backwards	✓	098 216 407	
Universal	Hybrid	24V	IP54	→	✓		45° (long)	Backwards		098 216 416	
Universal	Hybrid	24V	IP54	←	✓		45° (long)	Backwards		098 216 417	
Universal	Hybrid	24V	IP54	→	✓		45° (long)	Backwards	✓	098 216 420	
Universal	Hybrid	24V	IP54	←	✓		45° (long)	Backwards	✓	098 216 421	
Universal	Full-LED	24V	IP54	→	✓			Backwards		098 216 500	
Universal	Full-LED	24V	IP54	←	✓			Backwards		098 216 501	
Universal	Full-LED	24V	IP54	→	✓	✓		Backwards		098 216 502	
Universal	Full-LED	24V	IP54	←	✓	✓		Backwards		098 216 503	
Universal	Full-LED	24V	IP54	→	✓			Backwards	✓	098 216 504	
Universal	Full-LED	24V	IP54	←	✓			Backwards	✓	098 216 505	
Universal	Full-LED	24V	IP54	→	✓	✓		Backwards	✓	098 216 506	
Universal	Full-LED	24V	IP54	←	✓	✓		Backwards	✓	098 216 507	
Universal	Full-LED	24V	IP54	→	✓		45° (long)	Backwards		098 216 516	
Universal	Full-LED	24V	IP54	←	✓		45° (long)	Backwards		098 216 517	

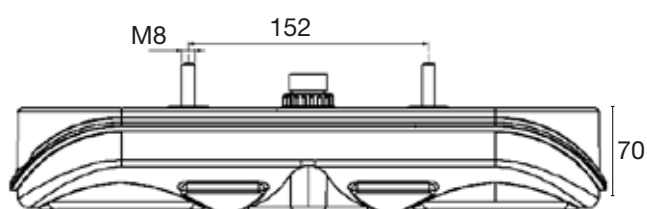
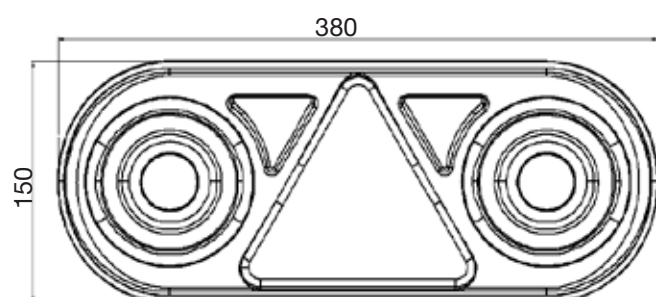
TM 1 LED - Tail lights 24V



Pos1



Pos 2



Description

LED tail lights with integrated triangular reflex reflector and black plastic housing
Polycarbonate lens

Dimension: 380 x 150 x 70 mm
Bolt hole distance: 152 mm



7 poled AMP 1.5 socket

TM 1 LED - Tail lights 24V

Functions

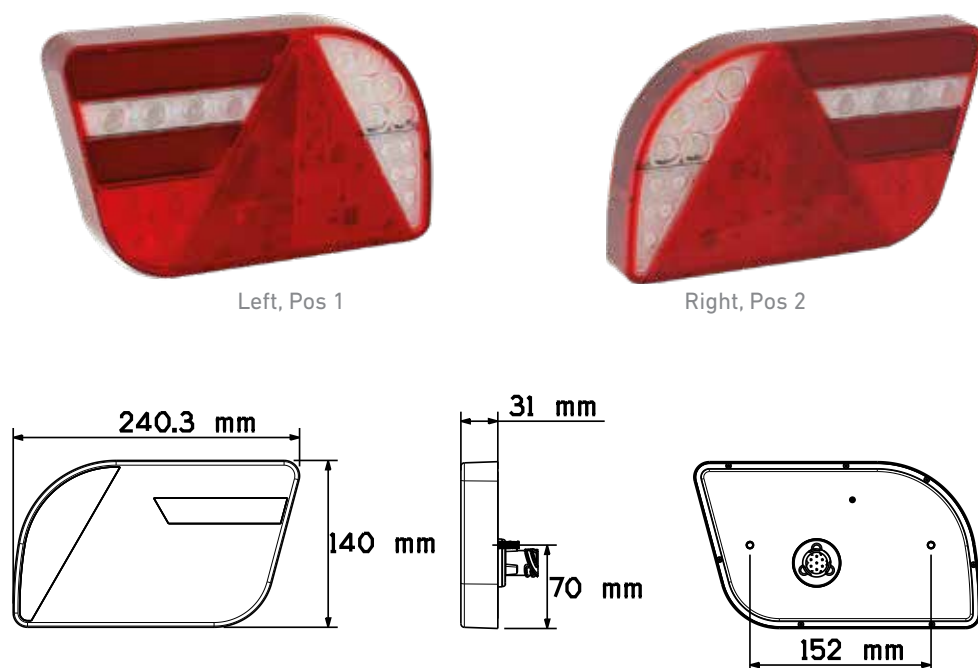
Application	Operation voltage	IP Rating	Left ← Right →	Position Stop Dir. indicator Reverse Rear fog Reflex reflector	License plate	Sider marker	Outer end marker	Connection	Pos	Article No.
Universal	24V	IP67	←	✓				7 poled AMP 1.5 socket	1	098 216 701
Universal	24V	IP67	→	✓				7 poled AMP 1.5 socket	1	098 216 702
Universal	24V	IP67	←	✓		✓		7 poled AMP 1.5 socket	1	098 216 703
Universal	24V	IP67	→	✓		✓		7 poled AMP 1.5 socket	1	098 216 704
Universal	24V	IP67	←	✓	✓			7 poled AMP 1.5 socket	1	098 216 705
Universal	24V	IP67	→	✓	✓			7 poled AMP 1.5 socket	1	098 216 706
Universal	24V	IP67	←	✓	✓	✓		7 poled AMP 1.5 socket	1	098 216 707
Universal	24V	IP67	→	✓	✓	✓		7 poled AMP 1.5 socket	1	098 216 708
Universal	24V	IP67	←	✓			✓	7 poled AMP 1.5 socket	2	098 216 713
Universal	24V	IP67	→	✓			✓	7 poled AMP 1.5 socket	2	098 216 714
Universal	24V	IP67	←	✓	✓		✓	7 poled AMP 1.5 socket	2	098 216 718
Universal	24V	IP67	→	✓	✓		✓	7 poled AMP 1.5 socket	2	098 216 717

Spare parts

Protection cover for tail lights		098 296 710
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Tail lights TM 3 LED 12/24V

E



LED Tail lights with "Eternal Light" for the position lights - black plastic housing
 Polycarbonate lens
 Consumption total: 16,5W
 Dimension: 240 x 140 x 31 mm
 Bolt hole distance: 152 mm

*) NB - Design with AMP socket must be used with straight socket and without safety cap



Functions

Application	IP Rating	Operation voltage	Left ← Right →	Position Stop Dir. indicator	Reverse Rear fog	Reflex reflector	Connection	Article No.
Universal	IP67	12/24V	→	✓	✓	✓	7 poled AMP 1.5 socket	098 215 235*
Universal	IP67	12/24V	←	✓	✓	✓	7 poled AMP 1.5 socket	098 215 237*
Universal	IP67	12/24V	→	✓	✓	✓	200 cm cable Open end	098 215 234
Universal	IP67	12/24V	←	✓	✓	✓	200 cm cable Open end	098 215 232

Spare parts / Accessories

Connection cable 4.000 mm with 7 poled AMP plug	098 291 233
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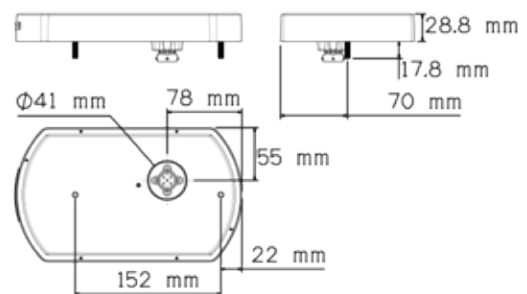
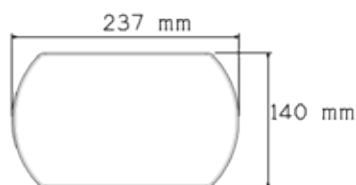
Tail lights TM 9 LED 12/24V



Left, Pos 1



Right, Pos 2



LED Tail lights with "Eternal Light" for the position lights with black plastic housing and polycarbonate lens

Consumption total: 16,5W

Dimension: 237 x 140 x 31 mm

Bolt hole distance: 152 mm



Functions

Application	IP Rating	Operation voltage	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	License plate	Reflex reflector	Connection	Article No.
Universal	IP67	12/24V	←	✓		✓	✓	✓	200 cm cable Open end	098 215 172
Universal	IP67	12/24V	→	✓	✓		✓	✓	200 cm cable Open end	098 215 170
Universal	IP67	12/24V	←	✓		✓	✓	✓	5 poled socket	098 215 177
Universal	IP67	12/24V	→	✓	✓		✓	✓	5 poled socket	098 215 175
Universal	IP67	12/24V	←	✓		✓	✓	✓	7 poled AMP 1.5	098 215 171
Universal	IP67	12/24V	→	✓	✓		✓	✓	7 poled AMP 1.5	098 215 173

Spare parts / Accessories

Plug 5 poled, yellow, left	098 295 076
Plug 5 poled, green, right	098 295 078

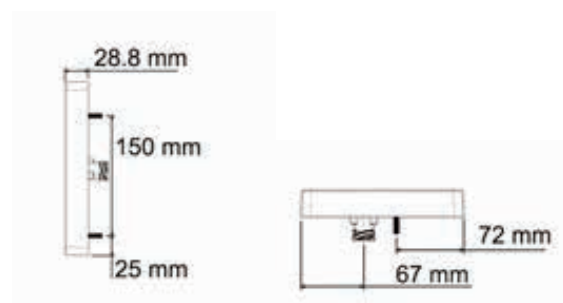
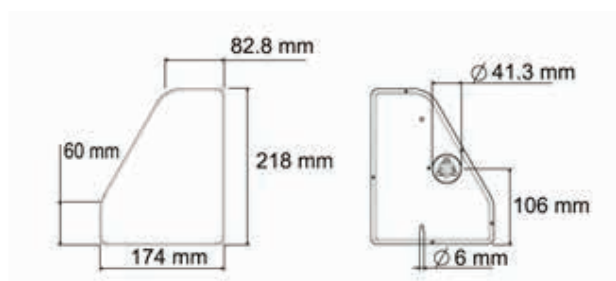
Tail lights LED 12/24V



Left, Pos 1



Right, Pos 2



LED Tail lights with black plastic housing and polycarbonate lens

Consumption total: 16,5W

Dimension: 218 x 174 x 28,8 mm

Bolt hole distance: 150 mm



7 poled AMP 1.5 socket

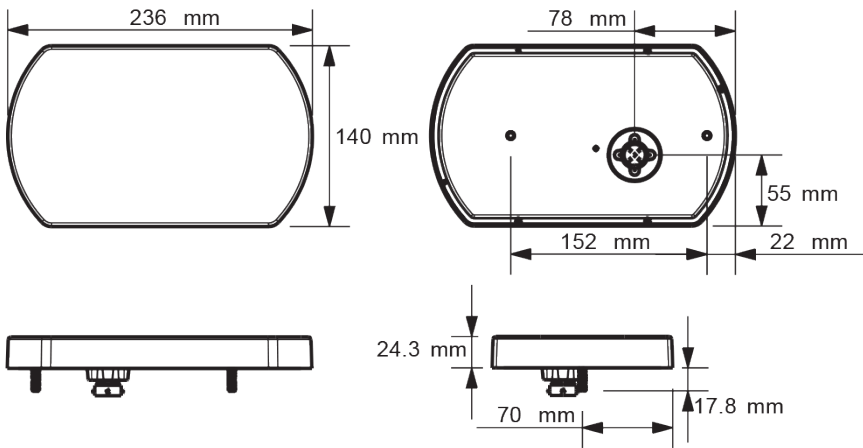
Functions

Application	IP Rating	Operation voltage	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	License plate	Reflex reflector	Connection	Pos	Article No.
Universal	IP67	12/24V	←	✓	✓	✓		✓	7 poled AMP 1.5 socket	1	098 215 242
Universal	IP67	12/24V	→	✓	✓	✓		✓	7 poled AMP 1.5 socket	2	098 215 244

Spare parts / Accessories

Connection cable 3.000 mm with 6 poled AMP 1.5 plug	494 030 653
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Tail lights LED 12V



LED Tail lights with with black plastic housing and polycarbonate lens
Dimension: 240,3 mm x 140 mm x 31 mm
Bolt hole distance: 152 mm



Functions

Application	IP Rating	Operation voltage	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	License plate	Reflex reflector	Connection	Article No.
Universal	IP67	12V	←	✓		✓	✓	✓	5 poled socket	098 215 251
Universal	IP67	12V	→	✓	✓		✓	✓	5 poled socket	098 215 250

Spare parts

5 poled plug for multi function light, yellow	098 295 076
5 poled plug for multi function light, green	098 295 078

Tail lights TM 6 LED 12/24V

E EMC



Pos 1



Pos 2



Pos 3



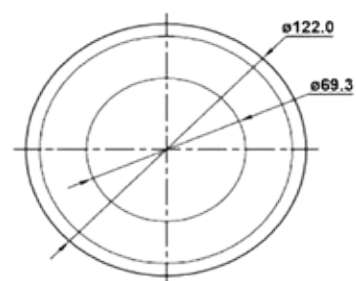
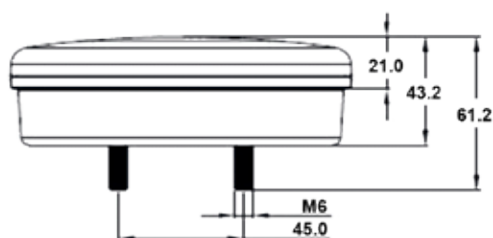
Pos 4



Pos 5



Pos 6



7 poled AMP 1.5 socket



Functions

Tail lights LED surface mounting/surface mounting

Dimension: Ø122 x 43.2 mm

Bolt hole distance: 45 mm M6

Working temperature: -30°C - +65°C

Tail lights TM 6 LED 12/24V

Functions

Application	IP Rating	Operation voltage	Position Stop	Dir. indicator	Reverse	Rear fog	Cable length	Connection	ADR	Pos	Article No.
Universal	IP67	12/24V	✓	✓			2.500 mm	Open end		1	098 212 022
Universal	IP67	12/24V	✓	✓			2.500 mm	Open end		1	098 212 026
Universal	IP67	12/24V	✓	✓			2.000 mm	7 poled AMP 1.5 plug		1	098 212 027
Universal	IP67	12/24V	✓	✓			200 mm	7 poled AMP 1.5 socket		1	098 212 028
Universal	IP67	12/24V	✓				2.500 mm	Open end		2	098 212 122
Universal	IP67	12/24V	✓				2.500 mm	Open end		2	098 212 126
Universal	IP67	12/24V	✓				2.000 mm	7 poled AMP 1.5 plug		2	098 212 127
Universal	IP67	12/24V	✓				200 mm	7 poled AMP 1.5 socket		2	098 212 128
Universal	IP67	12/24V		✓			2.500 mm	Open end		3	098 222 022
Universal	IP67	12/24V		✓			1.000 mm	Super Seal plug		3	098 222 027
Universal	IP67	12/24V		✓			200 mm	7 poled AMP 1.5 socket		3	098 222 023
Universal	IP67	12/24V			✓		2.500 mm	Open end		4	098 256 022
Universal	IP67	12/24V			✓		1.000 mm	Super Seal plug		4	098 256 027
Universal	IP67	12/24V			✓		200 mm	7 poled AMP 1.5 socket		4	098 256 023
Universal	IP67	12/24V				✓	2.500 mm	Open end		5	098 257 022
Universal	IP67	12/24V				✓	1.000 mm	Super Seal plug		5	098 257 027
Universal	IP67	12/24V				✓	200 mm	7 poled AMP 1.5 socket		5	098 257 023
Universal	IP67	12/24V			✓	✓	2.500 mm	Open end		6	098 255 022
Universal	IP67	12/24V			✓	✓	2.000 mm	7 poled AMP 1.5 plug		6	098 255 027
Universal	IP67	12/24V			✓	✓	200 mm	7 poled AMP 1.5 socket		6	098 255 028

Tail lights TM 7 LED 12/24V

E EMC



Pos 1



Pos 2



Pos 3



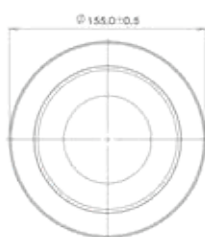
Pos 4



Pos 5



Pos 6



Pos 7



7 poled AMP 1.5 socket



Description

With chrome ring

Dimension: Ø155 x 43,2 mm

Build-in: Ø127 mm

Mounting holes: 3 pcs. Ø4,5 mm in 120° each Ø 135 mm

Working temperature: -30°C - +65°C

Tail lights TM 7 LED 12/24V

Functions

Application	IP Rating	Operation voltage	Position Stop	Dir. indicator	Reverse	Rear fog	Cable length	Connection	ADR	Pos	Article No.
Universal	IP67	12/24V	✓	✓			2.500 mm	Open end		1	098 212 016
Universal	IP67	12/24V	✓	✓			2.500 mm	Open end		1	098 212 012
Universal	IP67	12/24V	✓	✓			2.000 mm	7 poled AMP 1.5 plug		1	098 212 017
Universal	IP67	12/24V	✓	✓			200 mm	7 poled AMP 1.5 socket		1	098 212 018
Universal	IP67	12/24V	✓	✓			4000 mm	7 poled AMP 1.5 socket		1	098 212 019
Universal	IP67	12/24V	✓				2.500 mm	Open end		2	098 212 116
Universal	IP67	12/24V	✓				2.500 mm	Open end		2	098 212 112
Universal	IP67	12/24V	✓				2.000 mm	7 poled AMP 1.5 plug		2	098 212 117
Universal	IP67	12/24V	✓				200 mm	7 poled AMP 1.5 socket		2	098 212 118
Universal	IP67	12/24V		✓			2.500 mm	Open end		3	098 222 016
Universal	IP67	12/24V		✓			2.500 mm	Open end		3	098 222 012
Universal	IP67	12/24V		✓			1.000 mm	Super Seal plug		3	098 222 018
Universal	IP67	12/24V		✓			200 mm	7 poled AMP 1.5 socket		3	098 222 013
Universal	IP67	12/24V			✓		2.500 mm	Open end		4	098 256 016
Universal	IP67	12/24V			✓		2.500 mm	Open end		4	098 256 010
Universal	IP67	12/24V			✓		1.000 mm	Super Seal plug		4	098 256 018
Universal	IP67	12/24V			✓		200 mm	7 poled AMP 1.5 socket		4	098 256 012
Universal	IP67	12/24V				✓	2.500 mm	Open end		5	098 257 016
Universal	IP67	12/24V				✓	2.500 mm	Open end		5	098 257 012
Universal	IP67	12/24V				✓	1.000 mm	Super Seal plug		5	098 257 018
Universal	IP67	12/24V				✓	200 mm	7 poled AMP 1.5 socket		5	098 257 013
Universal	IP67	12/24V			✓	✓	2.500 mm	Open end		6	098 255 016
Universal	IP67	12/24V			✓	✓	2.500 mm	Open end		6	098 255 012
Universal	IP67	12/24V			✓	✓	2.000 mm	7 poled AMP 1.5 plug		6	098 255 017
Universal	IP67	12/24V			✓	✓	200 mm	7 poled AMP 1.5 socket		6	098 255 018

Spare parts

Chrome ring Ø155 mm		7	098 292 216
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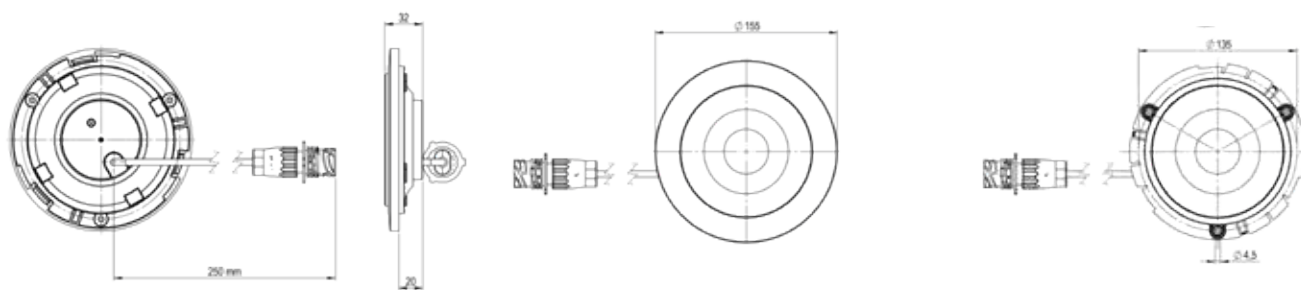
Tail lights TM 5 LED 12/24V



Pos 1



Pos 2



Ultra flat - with Chrome ring and impact resistant glass
 Position light with "Eternal Light" Technology
 Dimension: Ø155 x 32 mm
 Installation: Ø127 x 20 mm
 Mounting holes: 3 Ø4,5 mm in 120° spread in Ø135 mm



Functions

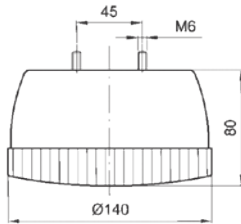
Application	IP Rating	Operation voltage	Position Stop Dir. indicator	Reverse	Rear fog	Cable length	Connection	Pos	Article No.
Universal	IP67	12/24V	✓			2.500 mm	Open end	1	098 212 101
Universal	IP67	12/24V	✓			300 mm	7 poled AMP 1.5 socket	1	098 212 102
Universal	IP67	12/24V		✓	✓	2.500 mm	Open end	2	098 255 101
Universal	IP67	12/24V		✓	✓	300 mm	7 poled AMP 1.5 socket	2	098 255 102

Spare parts

Chrome ring	098 292 215
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Tail lights TM 4 LED 12/24V

E



Pos 6



Pos 7

Dimension: Ø140 x 80 mm
Bolt hole distance: 45 mm



7 poled AMP 1.5 socket

Functions

Application	IP Rating	Operation voltage	Position	Stop	Dir. indicator	Reverse	Rear fog	Connection	Pos	Article No.
Universal	IP67	12V	✓	✓	✓			Cable lead through rubber grommet	2	098 212 342
Universal	IP67	12V					✓	Cable lead through rubber grommet	4	098 257 347
Universal	IP67	12/24V				✓		Cable lead through rubber grommet	3	098 256 343
Universal	IP67	12/24V	✓	✓	✓			Cable lead through rubber grommet	1	098 212 345
Universal	IP67	24V	✓	✓	✓			Cable lead through rubber grommet	2	098 212 344
Universal	IP67	24V				✓		Cable lead through rubber grommet	3	098 256 345
Universal	IP67	24V					✓	Cable lead through rubber grommet	4	098 257 349
Universal	IP67	10-30V				✓	✓	Cable lead through rubber grommet	5	098 255 341
Universal	IP67	12/24V	✓	✓	✓			7 poled AMP 1,5 socket	1	098 212 349
Universal	IP67	24V	✓	✓	✓			7 poled AMP 1,5 socket	2	098 212 346
Universal	IP67	24V				✓		7 poled AMP 1,5 socket	3	098 256 346
Universal	IP67	24V					✓	7 poled AMP 1,5 socket	4	098 257 346
Universal	IP67	10-30V				✓	✓	7 poled AMP 1,5 socket	5	098 255 346

Spare parts

Build-in set with chrome ring	6	098 292 360
Protection cap for tail lights	7	098 296 720
LED Units 24V without housing		098 292 346

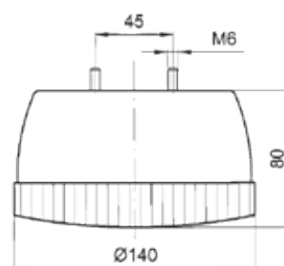
Tail lights LED 12/24V



Pos 1



Med cromring monteret



Pos 2



Pos 3



Pos 4



Pos 5



Pos 6

Horizontal build-in or surface mounting
 Pole specified connection with 6,3 mm flat plug
 Dimension: Ø140 x 80 mm (with Chromering Ø172 mm)
 Bolt hole distance: 45 mm
 IP67 rating

NB: Connection resistance module gets very hot in use, and must be mounted on a heat-conducting base, i.e. the chassis of the truck



Functions

Application	Operation voltage	Position	Stop	Dir. indicator	Reverse	Rear fog	Connection	Pos	Article No.
Universal	12V	✓	✓	✓			Cable lead through rubber grommet	1	098 212 358
Universal	24V	✓	✓	✓			Cable lead through rubber grommet	1	098 212 357

Spare parts

Chrome ring with build-in rack and rubber ring for all 140 mm "Hamburger" lights both with bulb and LED	2	098 292 360
Resistor for tail lights 12V-56R L x B x D: 67 x 30 x 14 mm. 50W 56 OHM1	4	098 292 952
Loading module for flasher,- or stop light 12V-10R - L x B x D: 67 x 30 x 14 mm. 50W 10 OHM1%	4	098 292 964
Resistor 24V for direction indicator	3	098 292 358
Heating cable 24V - 5W - Length 545 mm	5	093 865 124
Heating cable / Resistor 24V with cable shoe - length 545 mm	6	093 865 125

Tail lights LED 12/24V



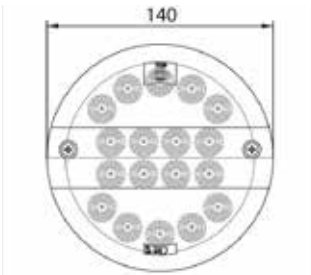
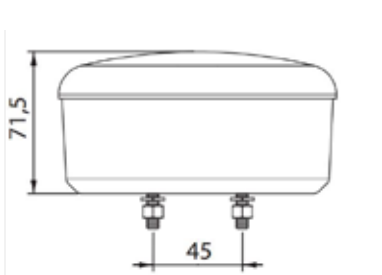
Pos 1



Pos 2



With chrom ring



Horizontal build-in or surface mounting
Pole specified connection with 6,3 mm flat plug
Dimension: Ø140 x 71,5 mm
Bolt hole distance: 45 mm



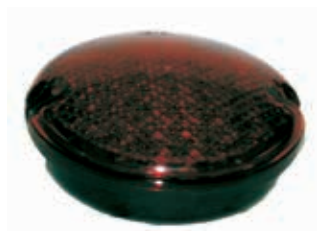
Functions

Application	IP Rating	Operation voltage	Position	Stop	Direction indicator	Connection	Pos	Article No.
Universal	IP67	9-33V	✓	✓	✓	Cable lead through rubber grommet	1	098 212 368
Universal	IP67	9-33V	✓	✓	✓	Cable lead through rubber grommet	2	098 212 367

Spare parts

Chromed mounting set		098 292 369
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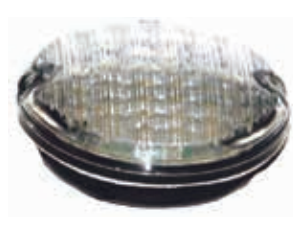
Tail lights LED 24V



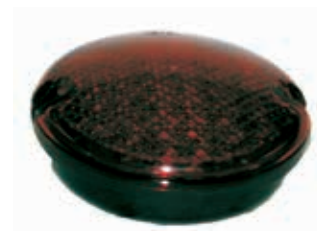
Pos 1



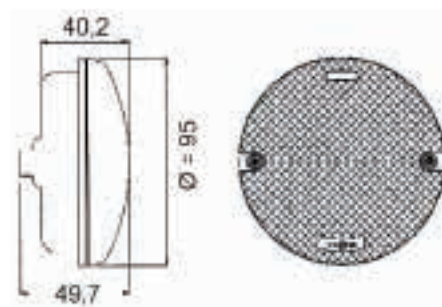
Pos 2



Pos 3



Pos 4



Dimension: Ø95 x 40,2 mm
 Bolt hole distance: 80 mm IP67 rating
 Cable with casted cable end



Functions

Application	IP Rating	Operation voltage	Position Stop	Dir. indicator	Reverse	Rear fog	Cable length	Connection	Pos	Article No.
Universal	IP67	12V	✓				500 mm	Open end	1	098 206 062
Universal	IP67	24V	✓				500 mm	Open end	1	098 206 064
Universal	IP67	12V		✓			500 mm	Open end	2	098 226 092
Universal	IP67	24V		✓			500 mm	Open end	2	098 226 094
Universal	IP67	12V			✓		500 mm	Open end	3	098 256 072
Universal	IP67	24V			✓		500 mm	Open end	3	098 256 074
Universal	IP67	12V				✓	500 mm	Open end	4	098 257 082
Universal	IP67	24V				✓	500 mm	Open end	6	098 257 084

Spare parts

Rubber gasket	098 291 655
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Tail lights LED

E



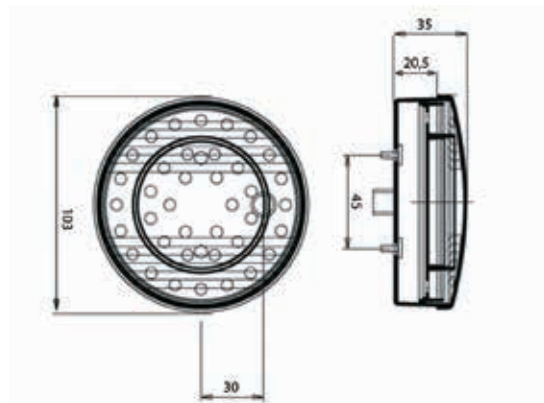
Pos 1



Pos 2



Pos 3



Integrated resistor for flash functions
 Dimension: Ø103 x 45 mm
 Bolt hole distance: 45 mm

Functions

Application	IP Rating	Operation voltage	LED's	Position Stop Dir. indicator	Reverse	Rear fog	Cable length	Connection	Pos	Article No.
Universal	IP68	12V	38	✓			1.000 mm	Open end	1	098 212 372
Universal	IP68	12V	38		✓		1.000 mm	Open end	2	098 256 172
Universal	IP68	24V	38		✓		1.000 mm	Open end	2	098 256 174
Universal	IP68	12V	38			✓	1.000 mm	Open end	3	098 257 072
Universal	IP68	24V	38			✓	1.000 mm	Open end	3	098 257 074

Tail lights LED

E



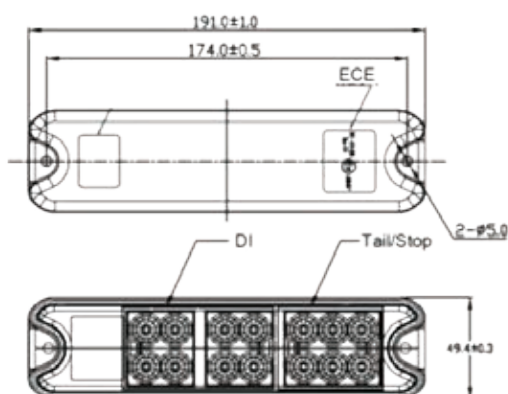
Pos 1

With 8 red and 6 yellow SMD LED's



Pos 2

With 8 red and 9 white SMD LED's



Consumption total: 16,5W
 Dimension: 191 x 49,4 x 30 mm
 Bolt hole distance: 174 mm



7 poled AMP 1.5 socket



Functions

Application	IP Rating	Operation voltage	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	Cable length	Connection	ADR	Pos	Article No.
Universal	IP67	12/24V	← →	✓			300 mm	Open end		1	098 212 273
Universal	IP67	10-30V	← →		✓	✓	300 mm	Open end		2	098 255 273
Universal	IP67	12/24V	← →	✓			2500 mm	Open end	⚠	1	098 212 275
Universal	IP67	10-30V	← →		✓	✓	2500 mm	Open end	⚠	2	098 255 275
Universal	IP67	12/24V	← →	✓			300 mm	7 poled AMP 1.5 socket		1	098 212 274
Universal	IP67	10-30V	← →		✓	✓	300 mm	7 poled AMP 1.5 socket		2	098 255 274

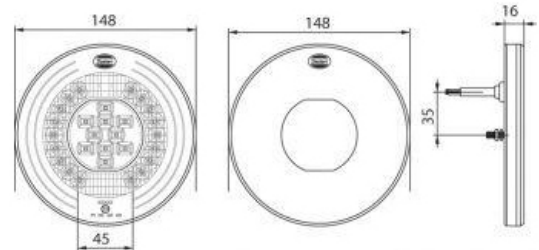
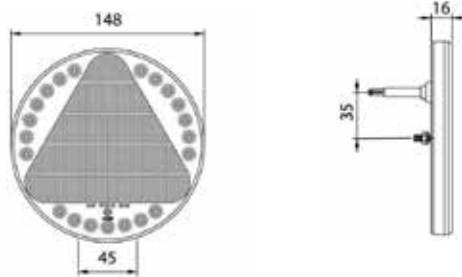
Tail lights LED 10-30V



Pos 1



Pos 2



Operation voltage: 12/24V / Consumption total: 16,5W

Dimension: Ø148 x 16 mm

Bolt hole distance: 45 mm



7 poled AMP 1.5 socket



Functions

Application	IP Rating	Operation voltage	Position Stop Dir. indicator	Reverse	Rear fog	Reflex reflector	Cable length	Connection	Pos	Article No.
Universal	IP67	10-30V	✓			✓	400 mm	Open end	1	098 212 160
Universal	IP67	10-30V		✓	✓		4.000 mm	Open end	2	098 255 160
Universal	IP67	10-30V	✓			✓	400 mm	5 poled plug	1	098 212 163
Universal	IP67	10-30V	✓			✓	450 mm	7 poled AMP 1.5 socket	1	098 212 161

Tail lights LED 12/24V



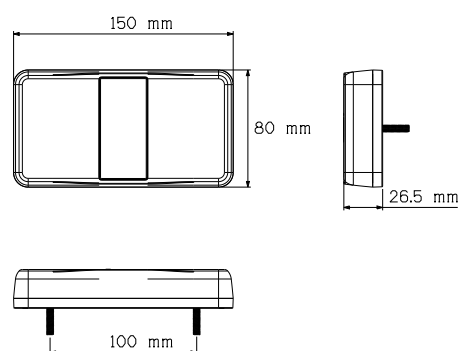
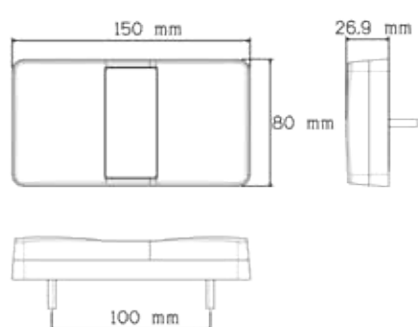
Pos 1



Pos 2



Pos 3



Dimension: 150 x 80 x 27 mm
Bolt hole distance: 100 mm



Functions

Application	IP Rating	Operation voltage	Position Stop	Dir. indicator	Cable length	Connection	Pos	Article No.
Universal	IP67	12/24V	✓	✓	300 mm	Open end	1	098 212 120
Universal	IP67	12/24V	✓	✓	300 mm	Open end	2	098 212 125
Universal	IP67	12/24V	✓	✓	300 mm	Open end	3	098 212 136

Tail lights LED 12/24V

EMC



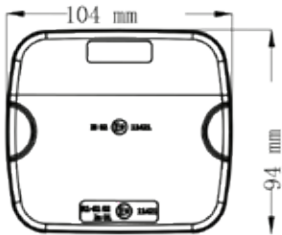
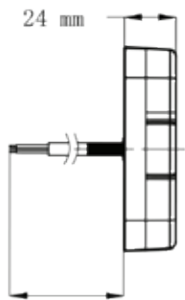
Pos 1



Pos 2 -placed in front



Pos 3



Dimension: 105 mm x 95 mm x 25 mm
Distance between mounting holes, center to center: 90 mm
Incl. cover panel for mounting



Functions

Application	IP Rating	Operation voltage	Position Stop	Dir. indicator	Position front	Reverse	Rear fog	Cable length	Connection	Pos	Article No.
Universal	IP67	12/24V	✓	✓				150 mm	Open end	1	098 212 470
Universal	IP67	12/24V		✓	✓			150 mm	Open end	2	098 222 470
Universal	IP67	12/24V				✓	✓	150 mm	Open end	3	098 255 470

Tail lights LED 12/24V

E



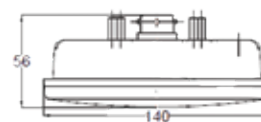
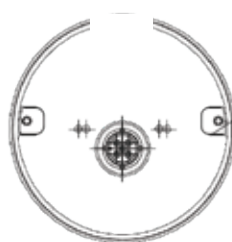
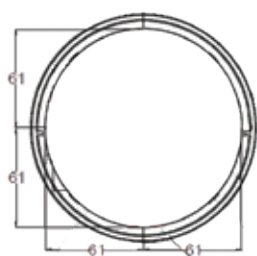
Pos 1



Pos 2



Pos 3



Position- and backwards fog light with "Eternal Light"

29 LEDs

Dimension: Ø140 x 56 mm

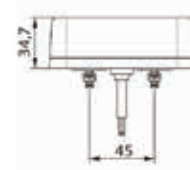
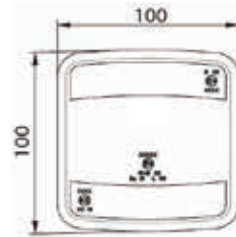
Distance between mounting holes, center to center: 55 mm



Functions

Application	IP Rating	Operation voltage	Position	Stop	Dir. indicator	Reverse	Rear fog	Cable length	Connection	Pos	Article No.
Universal	IP67	12/24V	✓	✓	✓			300 mm	Open end	1	098 212 390
Universal	IP67	12/24V	✓			✓		300 mm	Open end	2	098 253 390
Universal	IP67	12/24V					✓	300 mm	Open end	3	098 257 390

LED Tail lights, 12/24V



Dimension: 100 x 100 x 34 mm
Bolt hole distance: 45 mm



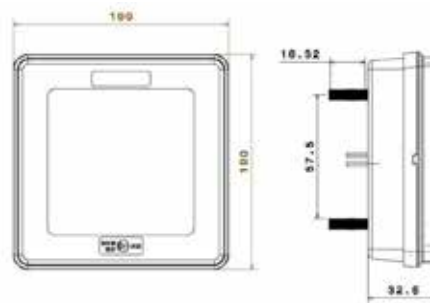
7 poled AMP 1.5 socket



Functions

Application	IP Rating	Operation voltage	Position	Stop	Dir. indicator	License plate	Reflex reflector	Cable length	Connection	Article No.
Universal	IP67	12/24V	✓	✓	✓	✓	✓	1.000 mm	Open end	098 212 410
Universal	IP67	12/24V	✓	✓	✓	✓	✓	1.000 mm	7 poled AMP 1.5 socket	098 212 411

LED Tail lights, 12/24V



25 LED's Impact resistant plastic lens
Dimension: 100 x 100 x 33 mm
Bolt hole distance: 57,5 mm



Functions

Application	IP Rating	Operation voltage	Position	Stop	Dir. indicator	Cable length	Connection	Article No.
Universal	IP67	12V	✓	✓	✓	500 mm	Open end	098 212 332
Universal	IP67	24V	✓	✓	✓	500 mm	Open end	098 212 334

LED Tail lights, 12/24V - "Glow" Design

E



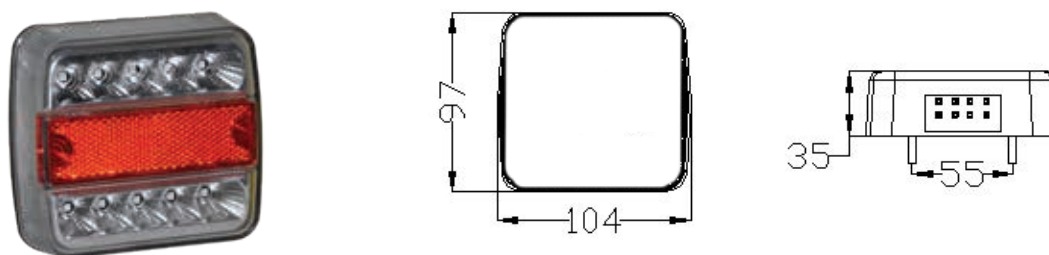
Dimension: 107 x 99 x 35 mm
Bolt hole distance: 45 mm

Functions

Application	IP Rating	Operation voltage	Left ← Right →	Position	Stop	Dir. indicator	License plate	Cable length	Connection	Article No.
Universal	IP67	12/24V	←	✓	✓	✓	✓	150 mm	Open end	098 212 200
Universal	IP67	12/24V	→	✓	✓	✓	✓	150 mm	Open end	098 212 205

LED Tail lights, 12/24V

E



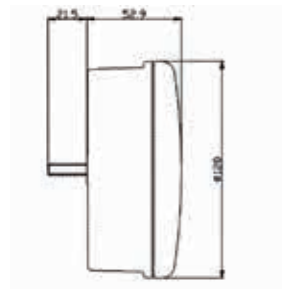
Dimension: 104 x 97 x 35 mm
Bolt hole distance: 55 mm

Functions

Application	IP Rating	Operation voltage	Position	Stop	Dir. indicator	License plate	Reflex reflector	Cable length	Connection	Article No.
Universal	IP67	12/24V	✓	✓	✓	✓	✓	150 mm	Open end	098 212 302

Tail lights LED 12/24V

E



Dimension: Ø120 x 52,9 mm
Bolt hole distance: 44 mm

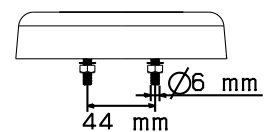
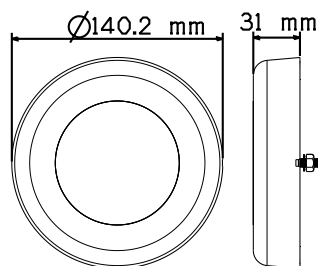


Functions

Application	IP Rating	Operation voltage	Position	Stop	Dir. indicator	LED's	Cable length	Connection	Article No.
Universal	IP67	9-28V	✓	✓	✓	21	150 mm	Open end	098 212 380

E

LED Tail lights, 12/24V - "Glow" Design



Dimension: Ø140,2 x 31 mm
Bolt hole distance: 44 mm

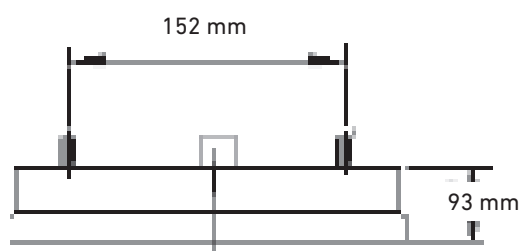
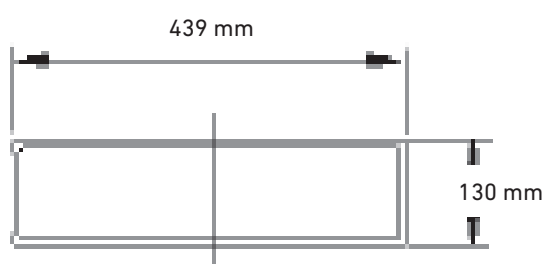


Functions

Application	IP Rating	Operation voltage	Position	Stop	Dir. indicator	Rear fog	Reverse	Cable length	Connection	Article No.
Universal	IP67	12/24V	✓	✓	✓			230 mm	Open end	098 212 036
Universal	IP67	12/24V	✓			✓	✓	230 mm	Open end	098 255 036

Tail lights bulb, 24V

E



A

6 poled
Connection Plug

B

6 poled
Compact plug
with 1800 mm cable

Wired and 2 bulb holders for the rear light area

Bulb holder vibration absorber

Mounted with 24V bulb

Dimension: 439 x 130 x 93 mm

Bolt hole distance: 152 mm

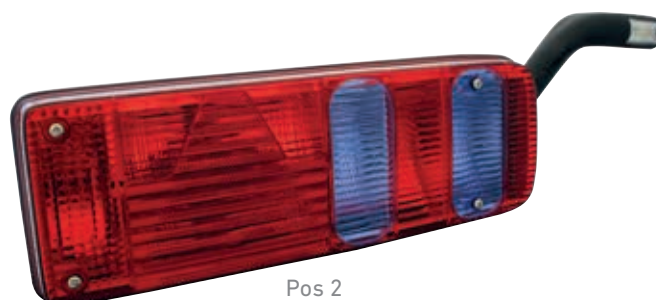
Functions

Application	IP Rating	Operation voltage	Lens	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	Sidemarkers	Connection	Article No.
Kögel, Schmitz	IP54	24V	098 294 292	← →	✓	✓	✓		A	098 214 260
Kögel, Schmitz	IP54	24V	098 294 292	← →	✓	✓	✓	✓	B	098 214 270
Kögel, Schmitz	IP54	24V	098 294 292	← →	✓	✓	✓	✓	A	098 214 290

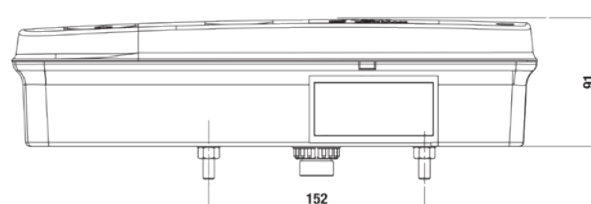
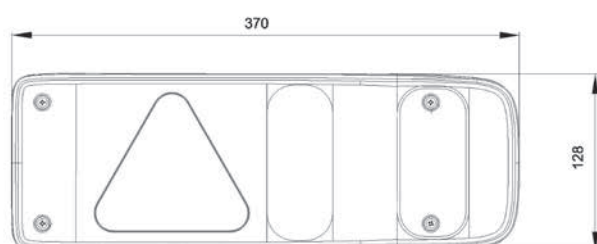
Tail lights bulb version 12/24V



Pos 1



Pos 2



Pos 3



Pos 4



Pos 5



Pos 6



Pos 7



Pos 8

Description

Delivered with 24V bulb
 Socket : BA15s
 Dimension: 370 x 128 x 88 mm
 Bolt hole distance: 152 mm
 IP67 rating



7 poled AMP 1.5 socket

Tail lights bulb version 12/24V

Functions											
Application	Operation voltage	Left ← Right →	Position Stop Dir. indicator	Reverse Backwards fog	License plate	Sidemarker	Outer end marker 45°	Reflex reflector	Connection	Pos	Article No.
Universal	12/24V	←	✓	✓				✓	7 poled AMP 1.5 socket	1	098 216 351
Universal	12/24V	→	✓	✓				✓	7 poled AMP 1.5 socket	1	098 216 352
Universal	12/24V	←	✓	✓		✓		✓	7 poled AMP 1.5 socket	1	098 216 353
Universal	12/24V	→	✓	✓		✓		✓	7 poled AMP 1.5 socket	1	098 216 354
Universal	12/24V	←	✓	✓	✓			✓	7 poled AMP 1.5 socket	1	098 216 355
Universal	12/24V	→	✓	✓	✓			✓	7 poled AMP 1.5 socket	1	098 216 356
Universal	12/24V	←	✓	✓	✓	✓		✓	7 poled AMP 1.5 socket	1	098 216 357
Universal	12/24V	→	✓	✓	✓	✓		✓	7 poled AMP 1.5 socket	1	098 216 358
Universal	12/24V	←	✓	✓			LED	✓	7 poled AMP 1.5 socket	2	098 216 365
Universal	12/24V	→	✓	✓			LED	✓	7 poled AMP 1.5 socket	2	098 216 366
Universal	12/24V	←	✓	✓	✓		LED	✓	7 poled AMP 1.5 socket	2	098 216 367
Universal	12/24V	→	✓	✓	✓		LED	✓	7 poled AMP 1.5 socket	2	098 216 368
Universal	12/24V	←	✓	✓	✓		Bulb	✓	7 poled AMP 1.5 socket	3	098 216 349
Universal	12/24V	→	✓	✓	✓		Bulb	✓	7 poled AMP 1.5 socket	3	098 216 350

Spare parts / Accessories

Lens, left	4	098 296 351
Lens, right	4	098 296 352
Protection cap for tail lights	5	098 296 710
Bulb 24V 5W HD, BA15s - for tail lights	6	091 624 075
Bulb 24V 21W Amber HD, BAU15s - with amber glass for clear flashlights	7	091 624 078
Bulb 24V 21W HD, BA15s - for stop and foglights	8	091 624 071

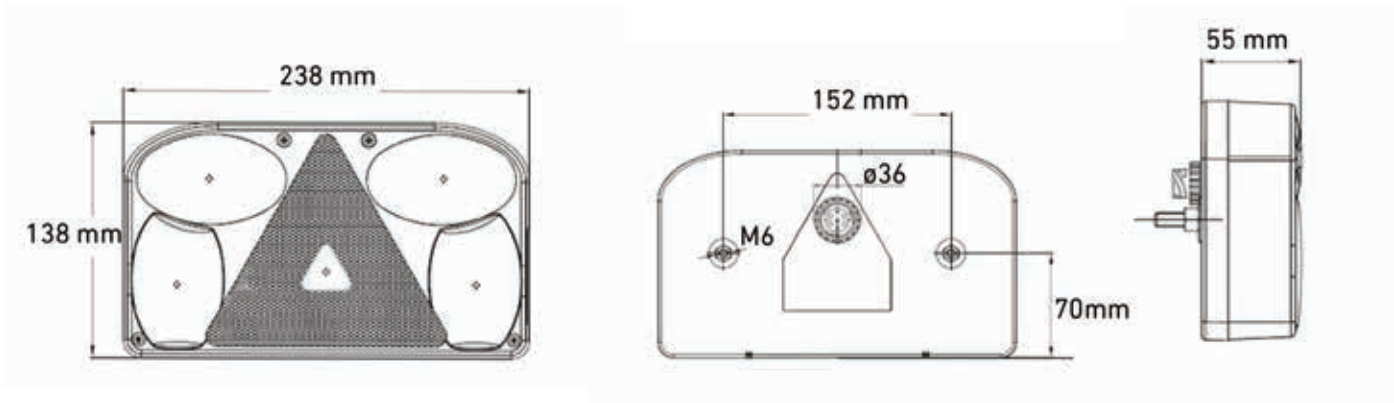
Tail lights bulb version 24V



Left



Right



Tail light 12V with bulb version 12V with black plastic housing and polycarbonate lens
License plate-function can be covered
For bulb 21W/BA15s + 21/5W/BAY15d
Dimension: 238 x 138 x 55 mm
Bolt hole distance: 152 mm



7 poled AMP 1.5 socket

Functions

Application	IP Rating	Operation voltage	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	License plate	Sidemark	Reflex reflector	Connection	Article No.
Universal	IP54	24V	←	✓	✓	✓	✓		✓	7 poled AMP 1.5 socket	098 215 080
Universal	IP54	24V	→	✓	✓	✓	✓		✓	7 poled AMP 1.5 socket	098 215 085

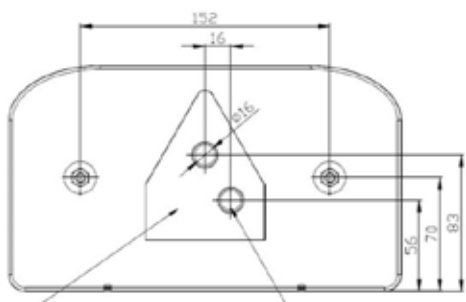
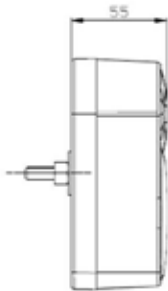
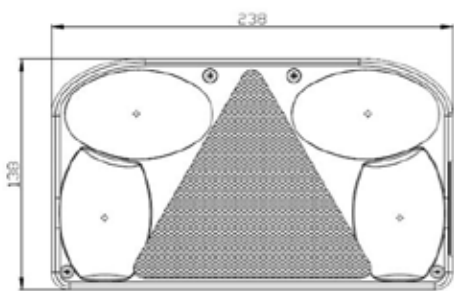
Tail lights bulb version 12V



Left



Right



Tail light 12V with bulb version 12V with black plastic housing and polycarbonate lens
For bulb 21W/BA15s + 21/5W/BAY15d
Dimension: 238 x 138 x 55 mm
Bolt hole distance: 152 mm

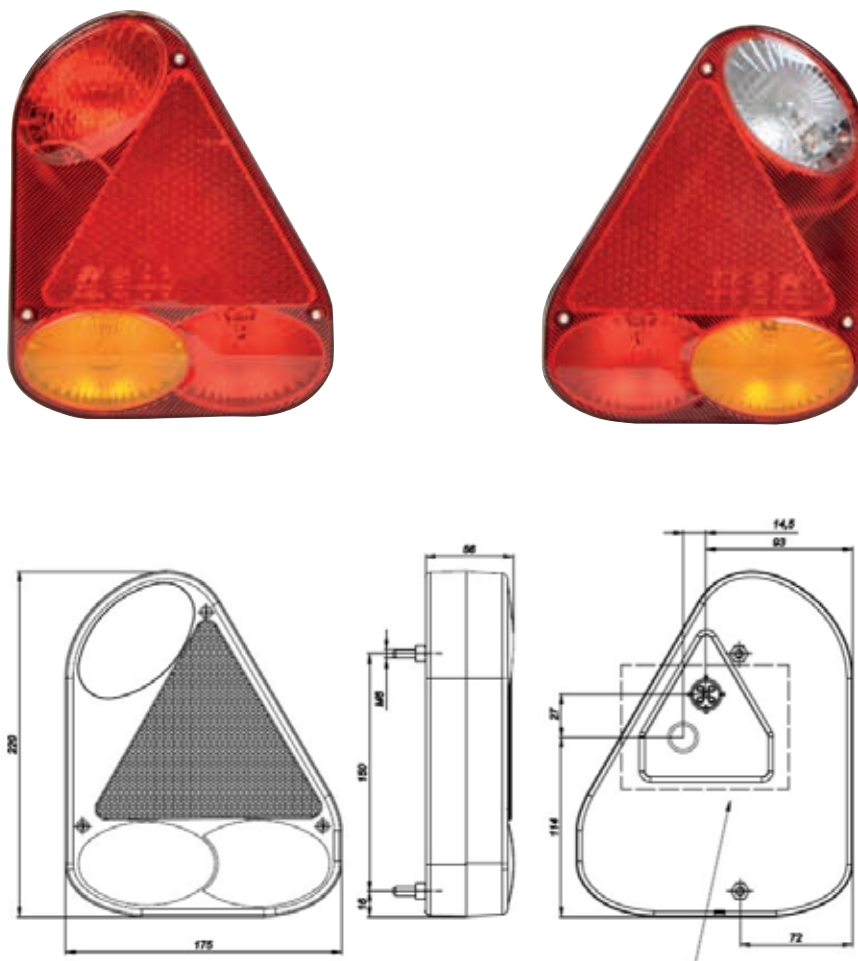


Functions

Application	IP Rating	Operation voltage	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	License plate	Sidemarkers	Reflex reflector	Connection	Article No.
Universal	IP54	12V	←	✓		✓	✓		✓	5 poled plug	098 215 800
Universal	IP54	12V	→	✓	✓		✓		✓	5 poled plug	098 215 805

Tail lights bulb version 12V

E



For bulb 21W/BA15s + 21/5W/BAY15d
 License plate-function can be covered
 Dimension: 175,0 x 220,0 x 52,0 mm
 Bolt hole distance: 152 mm



Functions

Application	IP Rating	Operation voltage	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	Reflex reflector	With 12V bulbs	Connection	Article No.
Universal	IP54	12V	←	✓		✓	✓		Flat plug connection through rubber grommet	098 215 160
Universal	IP54	12V	→	✓	✓		✓		Flat plug connection through rubber grommet	098 215 161
Universal	IP54	12V	←	✓		✓	✓	✓	5 poled socket	098 215 150
Universal	IP54	12V	→	✓	✓		✓	✓	5 poled socket	098 215 151

Tail lights bulb

E

Pos 1

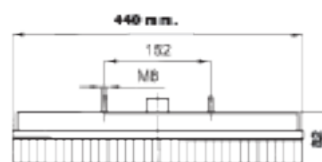
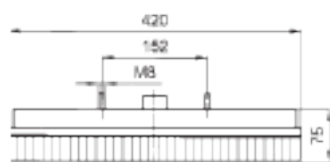


Pos 2



OBS **These Article No's are not for sale in Germany

* With and without license plate light by interchangeable insert



A



7 poled
Compact plug

B



Cable lead through
rubber grommet

C



Cable seal

D



Cable lead
through rubber
grommet with 3.000
mm cable

2 bulb holders for the rear light area
Bulb holder vibration absorber
Dimension Pos 1: 420 x150 x 75 mm
Dimension Pos 2: 440 x148 x 82 mm
Bolt hole distance: 152 mm
IP54 rating

Functions

Application	Lens	Pos	Left ← Right →	Position, Stop, Dir. indicator	Reverse	Rear fog	Outer end marker	Sidemarkers	License plate	Reflex reflector	Connection	Suitable for	Article No.
Universal	098 295 016	1	←	✓	✓	✓	✓	✓	✓*	△	A	20 223 909 090 6584	098 215 017
Universal	098 295 016	1	→	✓	✓	✓	✓	✓	✓*	△	A	20 223 577 152 5205	098 215 019
Universal	098 295 016	1	←	✓	✓	✓	✓	✓	✓*	△	B	88.25260.6012 20044864/20223840	098 215 026
Universal	098 295 016	1	→	✓	✓	✓	✓	✓	✓*	△	B		098 215 028
Universal	098 295 016	1	←	✓	✓	✓	✓	✓	✓*	△	D	35-5103-37	098 215 027
Universal	098 295 016	1	→	✓	✓	✓	✓	✓	✓*	△	D	35-5502-027	098 215 029
Krone, Schmitz	098 294 212	2	→	✓	✓	✓		✓		△	C	5358171/0	098 214 210**
Krone, Schmitz	098 294 212	2	←	✓	✓	✓		✓		△	C	5385171/0	098 214 220**

Tail lights bulb

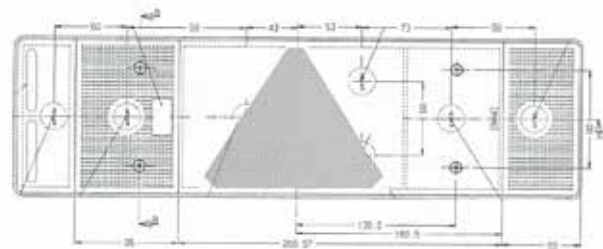
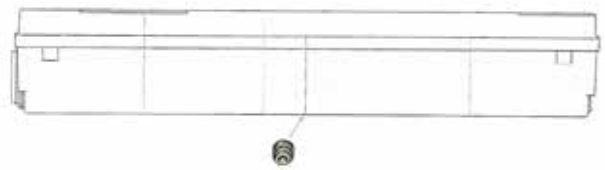
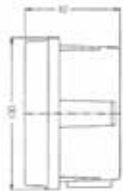
E



A



Cable seal



Wired and 2 bulb holders for the rear light area

Bulb holder vibration absorber

Dimension: 465 x 130 x 83 mm

Bolt hole distance: 152 mm

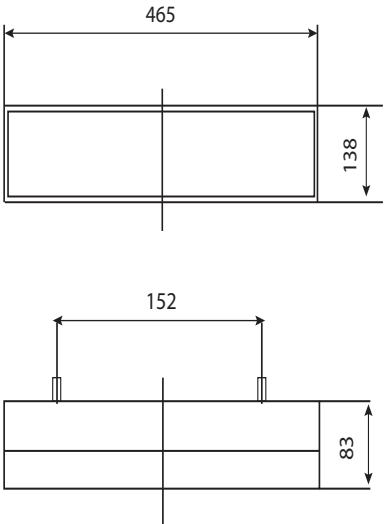
Functions

Application	Lens	IP Rating	Left ← Right →	Position, Stop, Dir. indicator	Reverse	Rear fog	Outer end marker	Sidemarkers	License plate	Reflex reflector	Connection	Suitable for	Article No.
DAF, Iveco, MAN Renault, Scania, Volvo	098 292 973	IP54	←	✓	✓	✓	✓	✓	✓	△	A	168 780	098 212 972
DAF, Iveco, MAN Renault, Scania, Volvo	098 292 975	IP54	→	✓	✓	✓	✓	✓		△	A	168 790	098 212 974
DAF, Iveco, MAN Renault, Scania, Volvo	098 292 973	IP54	←	✓	✓	✓	✓	✓		△	A	168 770	098 212 976

Spare parts

Glas /Reflex reflector for Sidemarkers light - for 098 212 972 / 974 / 976

Tail lights bulb

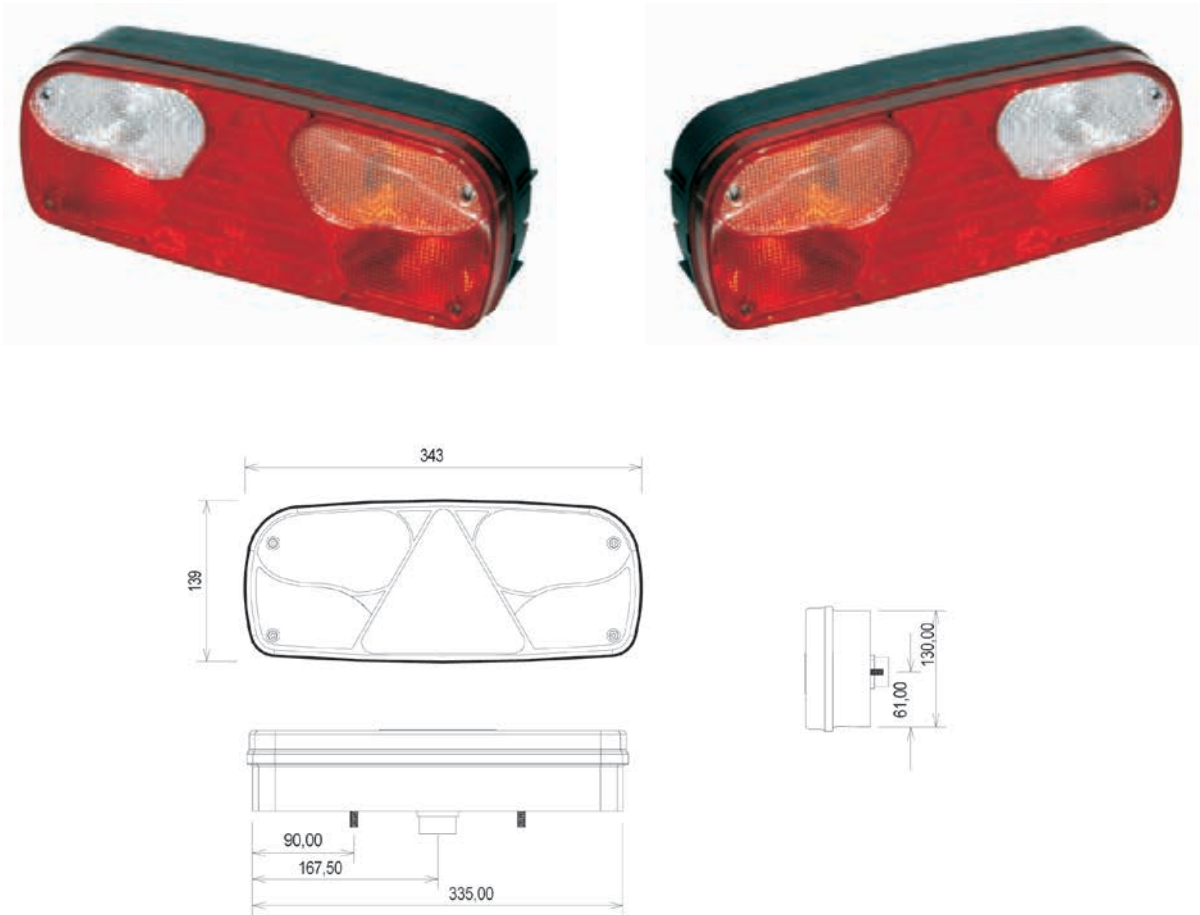


Wired and 2 bulb holders for the rear light area
Bulb holder vibration absorber
Dimension: 465 x 128 x 83 mm
Bolt hole distance: 152 mm

Functions

Application	IP Rating	Lens	Left ← Right →	Position, Stop, Dir. indicator	Reverse	Rear fog	Outer end marker	Sidemarker	Reflex reflector	Connection	Suitable for	Article No.
Mercedes Benz Sprinter	IP54	098 293 611	→	✓	✓	✓	✓	✓	△	A	-	098 213 610
Mercedes Benz Sprinter	IP54	098 293 613	←	✓	✓	✓	✓	✓	△	A	-	098 213 612

Tail lights bulb



Dimension: 343 x 139 mm
Bolt hole distance: 152 mm
OBS *These article no's are not for sale in Germany, Austria and Spain



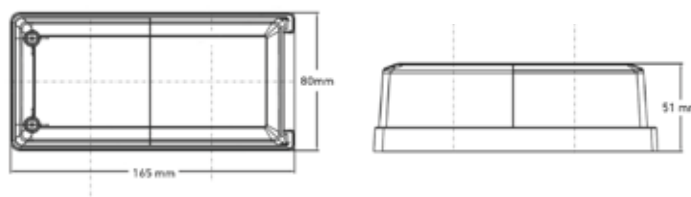
7 poled Connection plug
(Compact plug)

Functions

Application	IP Rating	Left ← Right →	Position, Stop, Dir. indicator	Reverse	Rear fog	License plate	Reflex reflector	Connection	Suitable for	Article No.
Universal	IP54	←	✓	✓	✓	✓	✓	A	25 2201 007	198 215 031*
Universal	IP54	←	✓	✓	✓		✓	A	25 2200 007	198 215 032*
Universal	IP54	→	✓	✓	✓		✓	A	25 2600 007	198 215 034*

Tail lights bulb

E



With/without numberplate light - delivered with 12V bulb
 Horizontal or vertical mounting
 Dimension: 165 x 80 x 51 mm
 Bolt hole distance: 51/82 mm

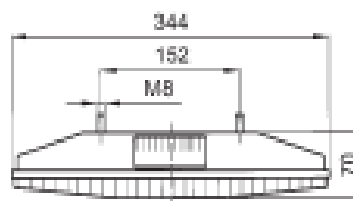


Functions

Application	IP Rating	Operation voltage	Position	Stop	Dir. indicator	License plate	Connection	Article No.
Universal	IP54	12/24V	✓	✓	✓	✓	Cable lead through rubber grommet	098 210 850

Tail lights bulb, 12/24V

E



Horizontal or vertical mounting
 Dimension: 344 x 146 x 70 mm
 Bolt hole distance: 152 mm



Functions

Socket version	IP Rating	Operation voltage	Left ← Right →	Position	Stop	Dir. indicator	License plate	Connection	Article No.
BA15s	IP54	12/24V	←	✓	✓	✓	✓	Cable lead through rubber grommet	098 212 561
BA15s	IP54	12/24V	→	✓	✓	✓		Cable lead through rubber grommet	098 212 571

Spare parts

Lens	098 292 573
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Tail lights bulb 12/24V



Pos 1



Pos 2

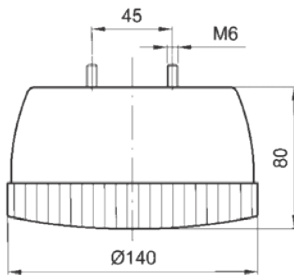


Pos 3



Pos 4

*) Variant with H3 Bulb is without E-Approval



Pos 5



Pos 6



Pos 7



Pos 8

Without bulb
Socket version BA15s
Bolt hole distance: 45 mm
IP54 rating



7 poled AMP 1.5 socket



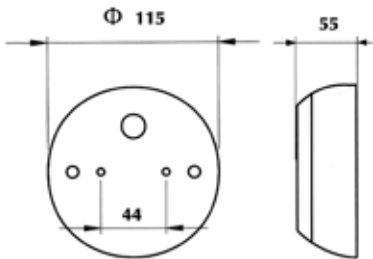
Functions

Application	Operation voltage	Position	Stop	Dir. indicator	Reverse	Rear fog	Connection	Pos	Article No.
Universal	12/24V	✓	✓	✓			Cable lead through rubber grommet	1	098 212 352
Universal	12/24V	✓	✓	✓			Cable lead through rubber grommet	1	098 212 356
Universal	12/24V	✓	✓	✓			7 poled AMP 1.5 socket	2	098 212 351
Universal	12/24V				✓		Cable lead through rubber grommet	3	098 256 040
Universal	12/24V				✓		Cable lead through rubber grommet	3	098 256 048
Universal	12/24V					✓	Cable lead through rubber grommet	4	098 256 050

Spare parts

Build-in set with chrome ring	5	098 292 360
Protection cap for tail lights	6	098 296 720
Lens for tail lights (Pos 1 and 2)	7	098 292 354
Lens for reverse lights (Transperant)	8	098 292 242

Tail lights bulb - 12/24V



Bulb holder vibration absorber
Bolt hole distance: 45 mm



Functions

Socket version	IP Rating	Operation voltage	Position	Stop	Dir. indicator	Connection	Dimension	Suitable for	Article No.
SV8,5-8 (1x10W), (2x18W)	IP54	12/24V	✓	✓	✓	400 mm Cable	Ø140 x 57 mm	2 SD 001 679-001	098 212 290

Accessories

Lens		098 292 292
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Tail lights bulb - 12V



Pos 1



Pos 2



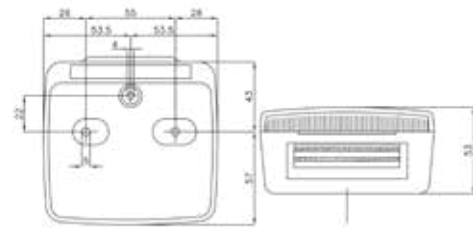
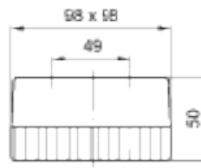
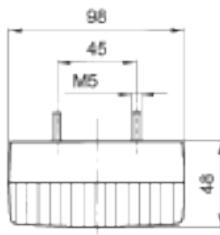
Pos 3



Pos 4



Pos 5



*) With or without license plate light
 Socket version: BAY15d (1x21/5W), BA15s (1x21W)



Functions

Bulb	Operation voltage	Position	Stop	Dir. indicator	License plate	Connection	Pos	Article No.
Without bulb	12V	✓	✓	✓	✓	Cable lead through rubber grommet	1	098 212 300
Without bulb	12/24VV	✓	✓	✓	✓	Cable lead through rubber grommet	2	098 212 642
Without bulb	12V	✓	✓	✓	✓	Cable lead through rubber grommet	3	098 210 380
Without bulb	12/24V	✓	✓	✓		Cable lead through rubber grommet	4	098 210 360 *
Without bulb	12/24V	✓	✓	✓	✓	Cable lead through rubber grommet	4	098 210 361
Without bulb	12V	✓	✓	✓		Cable lead through rubber grommet	5	098 211 135
With 12V bulb	12V	✓	✓	✓		5 poled plug	2	098 212 645
With 12V bulb	12V	✓	✓	✓	✓	5 poled plug	2	098 212 647
Without bulb	12/24V	✓	✓	✓		Cable lead through rubber grommet	2	098 212 640

Spare parts

Lens for 098 210 360 / 361	098 299 981
Lens for 098 211 135	098 291 132
Bulb 12V, 21W for stop and direct indicator	091 612 010
Bulb 12V, 21/5W for stop and tail light	091 612 008
Bulb 24V, 21W for stop and direct indicator	091 624 011
Bulb 24V, 21/5W for stop and tail light	091 624 009

Lens for tail lights, Bulb



Pos 1



Pos 2

Functions

Application	Left ← Right →	Description	Suitable for	Pos	Article No.
Krone 505870445	←	Lens	2VP 340 931-011	1	198 292 514
Krone 505870445	→	Lens	2VP 340 931-001	2	198 292 515
DAF 0866409 152 6681	←	Lens	2VP 340 831-011	1	198 292 614
DAF 0866409 152 5016	→	Lens	2VP 340 831-001	2	198 292 615



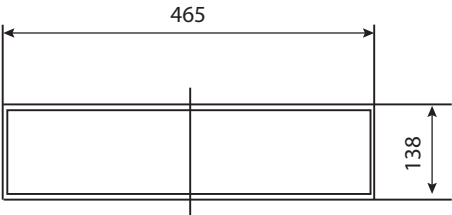
TAIL LIGHTS

VANS



Tail lights bulb

E



Wired and with bulb holder vibration absorber
Dimension: 465 x 138 x 90 mm
Bolt hole distance: 200 mm



Cable lead through rubber grommet

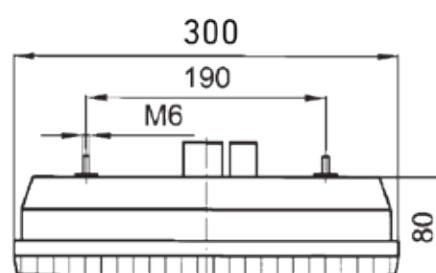
Functions

Application	IP Rating	Lens	Left ← Right →	Position, Stop, Dir. indicator	Reverse	Rear fog	Outer end marker	Sidemarker	License plate	Reflex reflector	Suitable for	Article No.
Mercedes Benz Sprinter	IP54	098 293 363	←	✓	✓	✓	✓	✓	✓	✓	002 544 55 03	098 213 361
Mercedes Benz Sprinter	IP54	098 293 363	→	✓	✓		✓	✓		✓	002 544 54 03	098 213 371

For application or flatbeds and vans

Tail lights bulb

E



B



5 poled Connection

C



5 poled AMP Connection

Wired and 2 bulb holders for the rear light area

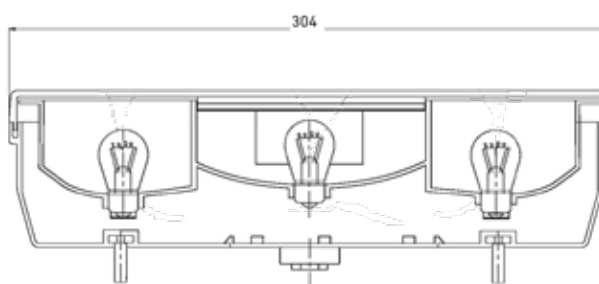
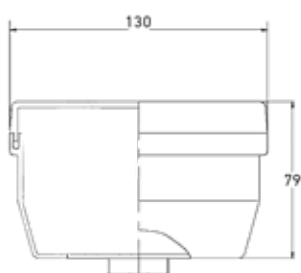
Dimension: 300 x 128 x 80 mm

Bolt hole distance: 190 mm

Functions

Application	IP Rating	Lens	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	Reflex reflector	Connection	Suitable for	Article No.
Iveco Daily 1984 > 9 / 1999	IP64	098 292 842	←	✓	✓		✓	B	4808774/72	098 212 840
Iveco Daily 1984 > 9 / 1999	IP64	098 292 847	→	✓		✓	✓	B	4808775/73	098 212 845
Iveco Daily S 2000 10 / 1999 >	IP64	098 292 842	←	✓	✓		✓	C	500356782	098 212 843
Iveco Daily S 2000 10 / 1999 >	IP64	098 292 847	→	✓		✓	✓	C	500356783	098 212 848

Tail lights bulb



Dimension: 304 x 13 x 130 mm
Bolt hole distance: 190 mm

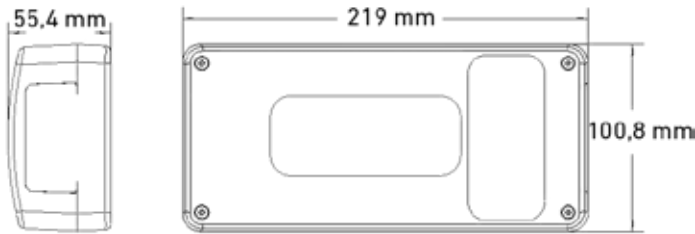


6 poled AMP socket

Functions

Application	IP Rating	Lens	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	Reflex reflector	Connection	Suitable for	Article No.
Iveco Daily Chassis / Cab	IP64	098 294 055	←	✓	✓	✓	✓	6 poled	69500032	098 214 052
Iveco Daily Chassis / Cab	IP64	098 294 055	→	✓	✓	✓	✓	6 poled	69500026	098 214 053

Tail lights bulb, 12V



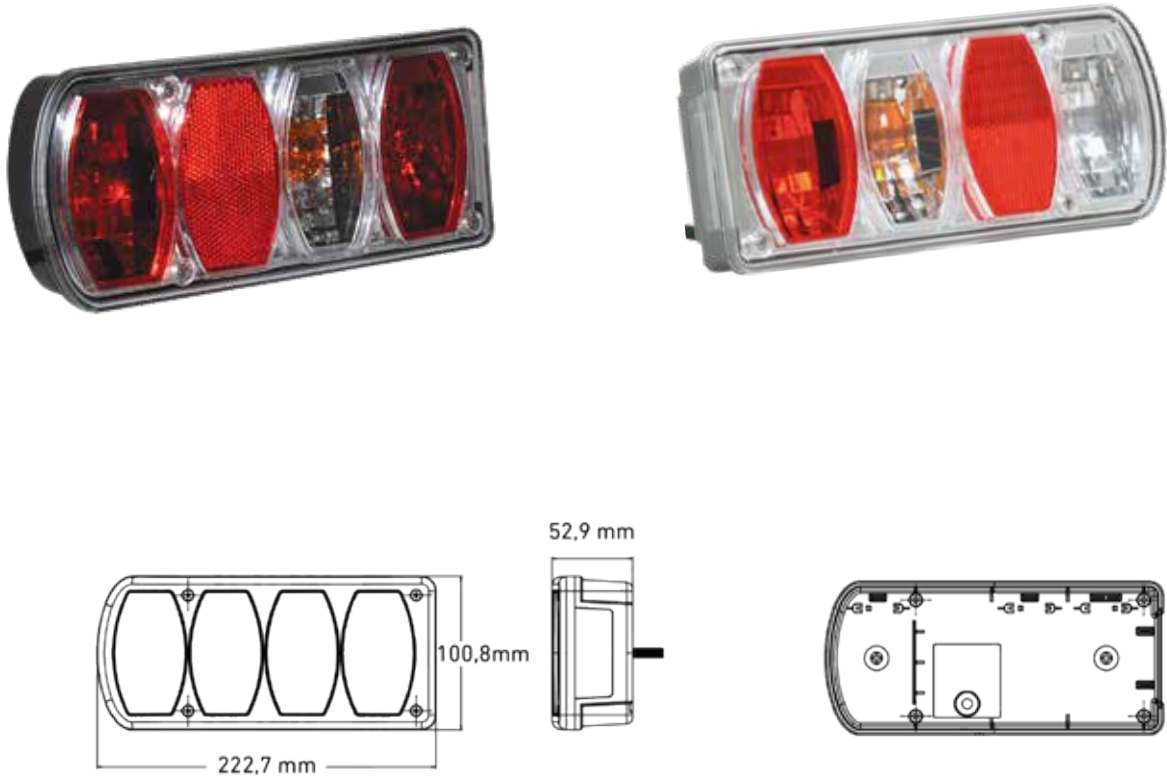
With 12V Bulb
Dimension: 219 x 101 x 55,4 mm
4 bolt holes



Functions

Application	IP Rating	Operation voltage	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	License plate	Reflex reflector	Cable length	Connection	Pos	Article No.
Universal	IP67	12V	←	✓		✓	✓	✓	200 mm	Open end	1	098 212 045
Universal	IP67	12V	→	✓	✓		✓	✓	200 mm	Open end	1	098 212 040
Universal	IP67	12V	←	✓		✓	✓	✓	200 mm	Open end	2	098 212 050
Universal	IP67	12V	→	✓	✓		✓	✓	200 mm	Open end	2	098 212 055

Tail lights bulb, 12V



With 12V Bulb
Dimension: 222 x 100 x 53 mm
4 bolt holes



Functions

Application	IP Rating	Operation voltage	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	License plate	Reflex reflector	Cable length	Connection	Article No.
Universal	IP67	12V	←	✓		✓	✓	✓	200 mm	Open end	098 212 060
Universal	IP67	12V	→	✓	✓		✓	✓	200 mm	Open end	098 212 065



TAIL LIGHTS TRUCK



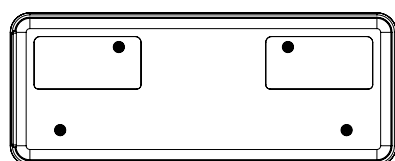
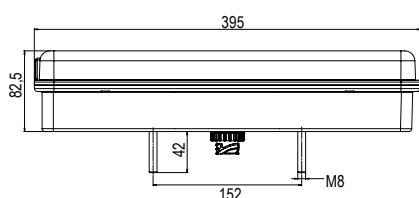
TM 10 LED - Tail lights 24V, Hybrid or Full-LED for Truck



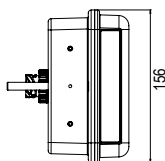
Hybrid



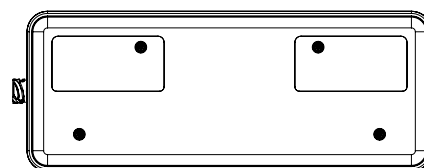
Full-LED



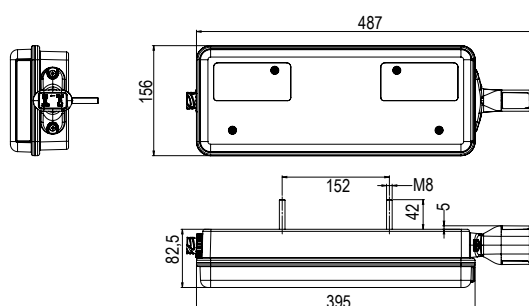
AMP is placed on the back



AMP placed on the side



Ex: with outer end marker light



Description

Black plastic housing and polycarbonate lens
 Dimension: B x H x T: 390 x 155 x 80 mm
 Bolt hole distance, center to center: 152 mm
 Application: Universal



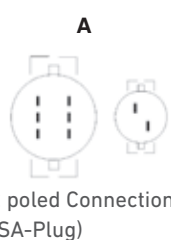
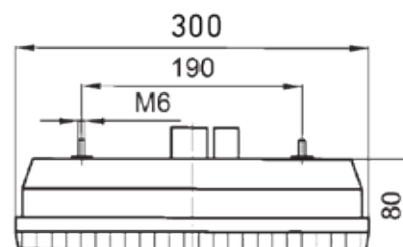
7 poled AMP 1.5 socket

*) Super Seal functions for position-, stop-, reverse and rear fog

TM 10 LED - Tail lights 24V, Hybrid or Full-LED for Truck

Functions										
Application	Type	Operation voltage	IP Rating	Right → Left ←	Position Stop	Dir. indicator Reverse Rear fog Sidemarker Reflex reflector	License plate	Outer end marker	Connection 7 poled AMP 1.5 socket Placed:	Article No.
Universal	Hybrid	24V	IP54	→		✓			Backwards	098 216 408
Universal	Hybrid	24V	IP54	←		✓			Backwards	098 216 409
Universal	Hybrid	24V	IP54	→		✓	✓		Backwards	098 216 410
Universal	Hybrid	24V	IP54	←		✓	✓		Backwards	098 216 411
Universal	Hybrid	24V	IP54	→		✓			Side	098 216 412
Universal	Hybrid	24V	IP54	←		✓			Side	098 216 413
Universal	Hybrid	24V	IP54	→		✓	✓		Side	098 216 414
Universal	Hybrid	24V	IP54	←		✓	✓		Side	098 216 415
Universal	Hybrid	24V	IP54	→		✓	✓	Straight (short)	Side	098 216 418
Universal	Hybrid	24V	IP54	←		✓	✓	Straight (short)	Side	098 216 419
Universal	Hybrid	24V	IP54	→		✓		Straight (short)	Side	098 216 422
Universal	Hybrid	24V	IP54	←		✓		Straight (short)	Side	098 216 423
Universal	Full-LED	24V	IP54	→		✓			Backwards	098 216 508
Universal	Full-LED	24V	IP54	←		✓			Backwards	098 216 509
Universal	Full-LED	24V	IP54	→		✓	✓		Backwards	098 216 510
Universal	Full-LED	24V	IP54	←		✓	✓		Backwards	098 216 511
Universal	Full-LED	24V	IP54	→		✓			Side	098 216 512
Universal	Full-LED	24V	IP54	←		✓			Side	098 216 513
Universal	Full-LED	24V	IP54	→		✓	✓		Side	098 216 514
Universal	Full-LED	24V	IP54	←		✓	✓		Side	098 216 515
Universal	Full-LED	24V	IP54	→		✓	✓	Straight (short)	Side	098 216 518
Universal	Full-LED	24V	IP54	←		✓	✓	Straight (short)	Side	098 216 519
Universal	Full-LED	24V	IP54	→		✓		Straight (short)	Side	098 216 520
Universal	Full-LED	24V	IP54	←		✓		Straight (short)	Side	098 216 521

Tail lights bulb



Wired and 2 bulb holders for the rear light area

Dimension: 300 x 128 x 80 mm

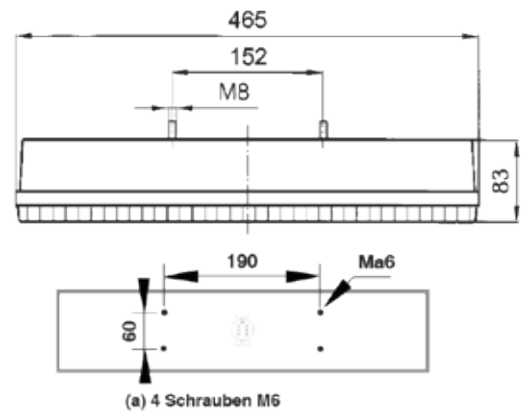
Bolt hole distance: 190 mm

Functions

Application	IP Rating	Lens	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	Reflex reflector	Connection	Suitable for	Article No.
Iveco	IP64	098 292 842	←	✓	✓		✓	D	-	098 212 836
Iveco	IP64	098 292 847	→	✓		✓	✓	D	-	098 212 838
Iveco Eurocargo	IP64	098 292 842	←	✓	✓		✓	A	98424051	098 212 830
Iveco Eurocargo	IP64	098 292 847	→	✓		✓	✓	A	98424052	098 212 835

Tail lights bulb

E



A

6 poled
Connection socket

B



Pole connection socket

C



Cable seal

D

6 poled
Connection socket

E

6 poled AMP
socket
(Side mounting)

Wired and 2 bulb holders for the rear light area

Bulb holder vibration absorber

Dimension: 465 x 130 x 83 mm

Bolt hole distance: 152 mm

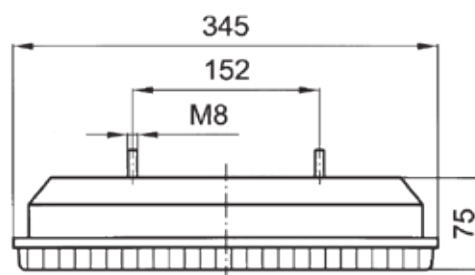
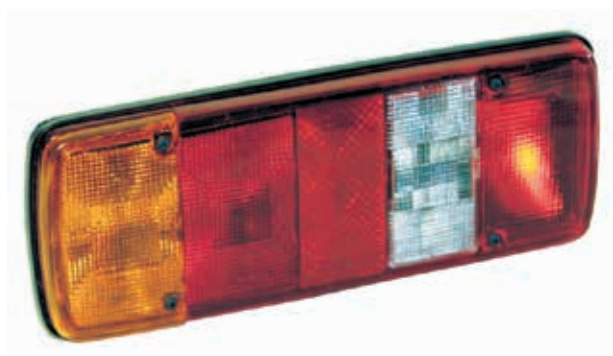
IP64 rating

Functions

Application	Lens	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	Outer end marker	Sidemarkers	License plate	Reflex reflector	Connection	Suitable for	Article No.
MAN	098 292 793	← →	✓	✓	✓	✓			✓	A	81 25228 6024	098 212 951
MAN	098 292 793	←	✓	✓	✓	✓		✓	✓	A	81 25228 6025	098 212 952
Iveco / DAF/MAN	098 292 793	← →	✓	✓	✓	✓	✓		✓	A	-	098 212 953
Iveco / DAF/MAN	098 292 793	← →	✓	✓	✓	✓	✓	✓	✓	A	-	098 212 954
MAN TG-A	098 292 793	←	✓	✓	✓	✓	✓		✓	E	81 25225 6524	098 212 956
MAN TG-A	098 292 793	→	✓	✓	✓	✓	✓	✓	✓	E	81 25225 6523	098 212 957
Iveco	098 292 793	→	✓	✓	✓	✓	✓		✓	B	9946 3242	098 212 961
Iveco	098 292 793	←	✓	✓	✓	✓	✓	✓	✓	B	9946 3244	098 212 962
DAF 95/95XF	098 292 793	→	✓	✓	✓	✓	✓		✓	D	128 4212	098 212 806
DAF 95/95XF	098 292 793	←	✓	✓	✓	✓	✓	✓	✓	D	128 4211	098 212 807
Universal	098 292 793	→	✓	✓	✓	✓	✓		✓	C	168 270	098 212 969
Universal	098 292 793	←	✓	✓	✓	✓	✓	✓	✓	C	168 340	098 212 970
Spare parts												
6 poled bayonet plug for 098 212 953 / 954												098 292 775
Lens reflex reflector insert for sidemarkers lamp												098 292 959

Tail lights bulb

E



A



Cable lead through
rubber grommet,
Flat plug connection

B



6 poled outer-
bayonet
Connection

Wired and 2 bulb holders for the rear light area

Dimension: 345 x 135 x 75 mm

Bolt hole distance: 152 mm

IP54 rating

Functions

Application	Lens	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	License plate	Reflex reflector	Connection	Article No.
Universal	098 292 733	←	✓	✓	✓	✓		A	098 212 731
Universal	098 292 733	←	✓	✓	✓			A	098 212 736
Universal	098 292 733	→	✓	✓	✓			A	098 212 741
Universal	098 292 753	←	✓	✓	✓	✓	✓	A	098 212 751
MAN	098 292 753	←	✓	✓	✓		✓	A	098 212 756
MAN	098 292 753	→	✓	✓	✓		✓	A	098 212 761

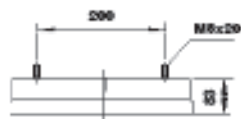
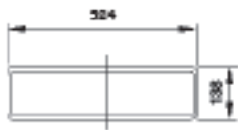
Tail lights bulb

E

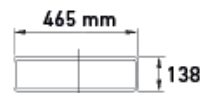
Pos 1



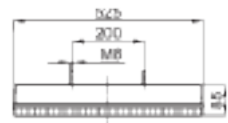
Pos 2



a)



b)



B

6 poled
Connection plug

C

6 poled
Connection plug

D

7 poled
Connection plug,
(s) Side mounting

E

6 poled
Connection plug,
(s) Side mounting

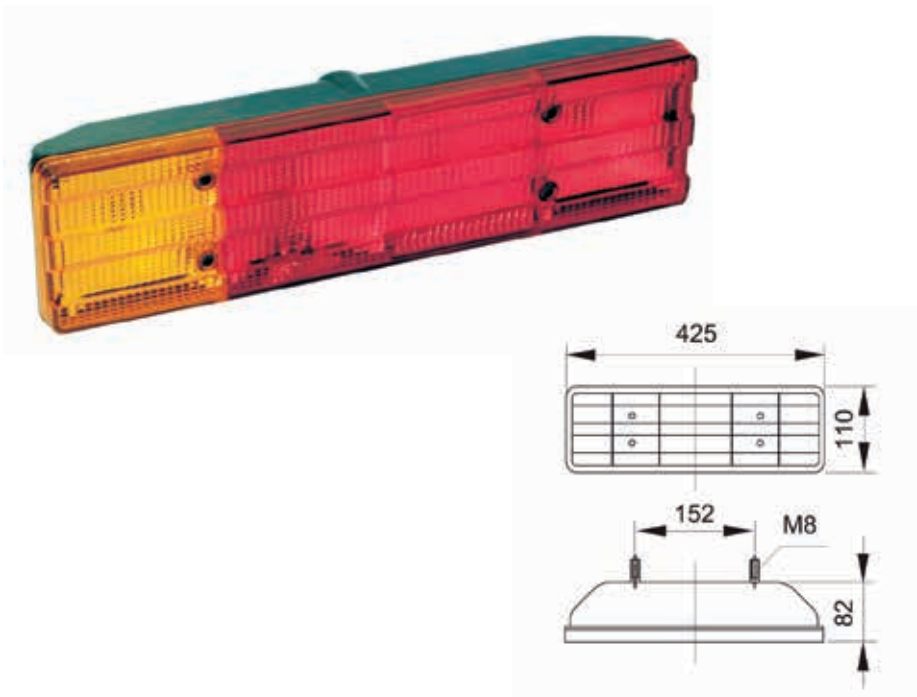
Wired and with Bulb holder vibration absorber

Pos 1 - Dimension: 524 x 138 x 83 mm / Bolt hole distance: 200 mm
1200 mm Connection cablePos 2a - Dimension: 465 x 138 x 90 mm / Pos 2b - Dimension: 525 x 138 x 85
Bolt hole distance: 200 mm

Functions

Application	Lens	IP Rating	Pos	Left ← Right →	Position, Stop, Dir. indicator	Reverse	Rear fog	Outer end marker	Sidemarkers	License plate	Reflex reflector	Connection	Suitable for	Article No.
Mercedes Benz MK & SK 10 / 94 >	098 293 323	IP54	1	←	✓	✓	✓	✓	✓	✓	✓	B	001 540 17 70	098 213 341
Mercedes Benz MK & SK 10 / 94 >	098 293 333	IP54	1	→	✓	✓	✓	✓	✓		✓	B	001 540 20 70	098 213 351
Mercedes Benz Atego	098 293 363	IP54	2a	←	✓	✓	✓	✓	✓	✓	✓	C	002 544 53 03 003 544 56 03	098 213 381
Mercedes Benz Atego	098 293 363	IP54	2a	→	✓	✓	✓	✓	✓		✓	C	003 544 52 03 003 544 55 03	098 213 391
Mercedes Benz Atego & Actros	098 293 323	IP54	2b	←	✓	✓	✓	✓	✓	✓	✓	D (s)	001 540 62 70	098 213 346
Mercedes Benz Atego & Actros	098 293 333	IP54	2b	→	✓	✓	✓	✓	✓		✓	E (s)	001 540 63 70	098 213 356

Tail lights bulb



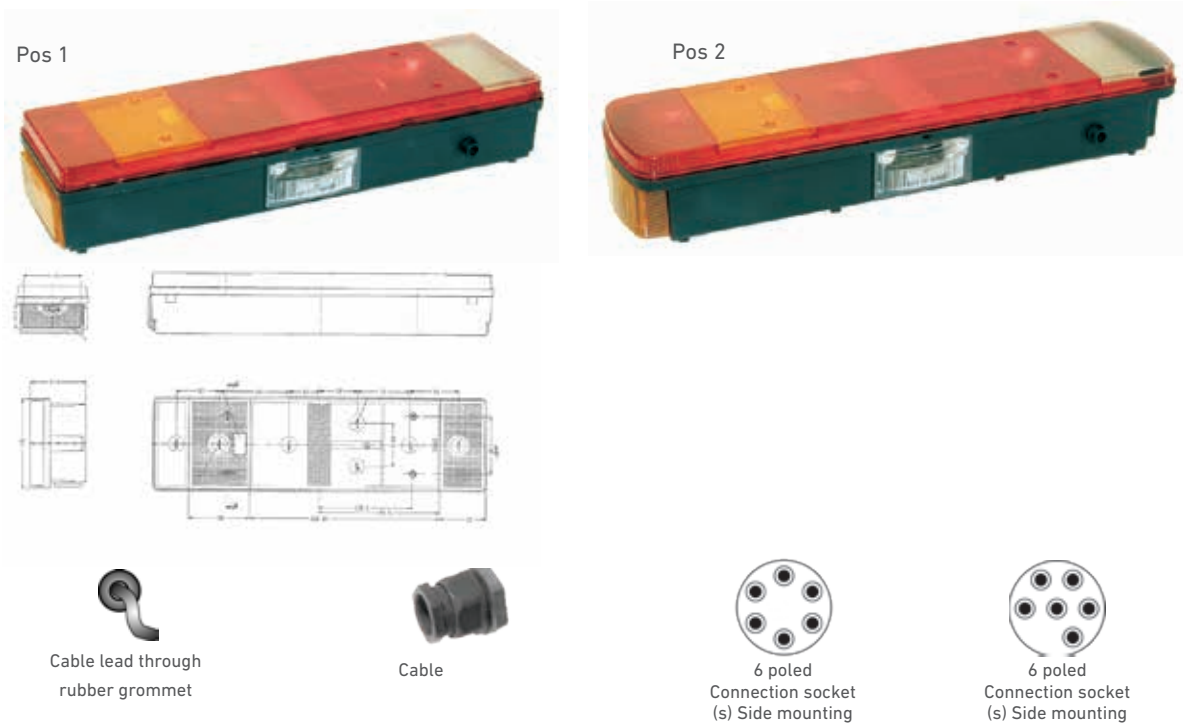
Wired and with Bulb holder vibration absorber
Dimension: 425 x 110 x 82 mm
Bolt hole distance: 152 mm
IP54 rating



Cable lead through rubber grommet

Functions										
Application	Lens	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	License plate	Reflex reflector	Connection	Suitable for	Article No.
Mercedes Benz	098 293 513	←	✓		✓	✓		A	A 002 544 07 03	098 213 511
Mercedes Benz	098 293 513	←	✓		✓			A	A 002 544 09 03	098 213 516
Mercedes Benz	098 293 523	→	✓	✓				A	A 002 544 08 03	098 213 521

Tail lights bulb



Wired and 2 bulb holders for the rear light area
Bulb holder vibration absorber

Pos 1 - Dimension: 465 x 130 x 83 mm

Pos 2 - Dimension: 516 x 130 x 83 mm

Bolt hole distance: 200 mm

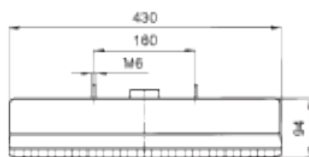
Functions

Application	Lens	IP Rating	Left ← Right →	Position, Stop, Dir. indicator	Reverse	Rear fog	Outer end marker	Sidemarkers	License plate	Reflex reflector	Connection	Suitable for	Pos	Article No.
Scania 3, >1996	098 292 793	IP54	←	✓	✓	✓	✓	✓	✓	✓	A	1365 963	1	098 212 963
Scania 3, >1996	098 292 793	IP54	→	✓	✓	✓	✓	✓		✓	A	1365 964	1	098 212 964
Scania 4, 1996 >	098 293 163	IP54	←	✓	✓	✓	✓	✓	✓	✓	A	1436 867	2	098 213 161
Scania 4, 1996 >	098 293 163	IP54	→	✓	✓	✓	✓	✓		✓	A	1436 868	2	098 213 171
Scania R	098 293 163	IP54	←	✓	✓	✓	✓	✓	✓	✓	C (s)	1498102	2	098 213 163
Scania R	098 293 163	IP54	→	✓	✓	✓	✓	✓		✓	C (s)	1498103	2	098 213 162
Scania R	098 293 163	IP54	←	✓	✓	✓	✓	✓	✓	✓	D (s)	1392387	2	098 213 168
Scania R	098 293 163	IP54	→	✓	✓	✓	✓	✓		✓	D (s)	1392374	2	098 213 167
Spare parts														
Lens reflex reflector insert for Sidemarkers lamp - For 098 212 963 / 964 / 969 / 970														098 292 959

Tail lights bulb



Pos 1



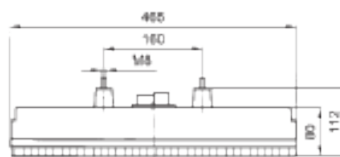
A



poled connection plug



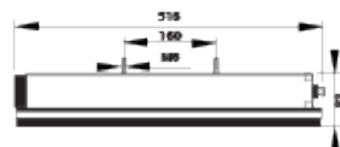
Pos 2



B

6 poled connection plug
(Volvo plug)

Pos 3



C

6 poled Connection socket
(s) Side mounting

Wired and 2 bulb holders for the rear light area

Bulb holder vibration absorber

Pos 1 - Dimension: 430 x 124 x 94 mm

Pos 2 - Dimension: 465 x 130 x 80 mm

Pos 3 - Dimension: 516 x 130 x 83 mm

Bolt hole distance: 160 mm

Functions

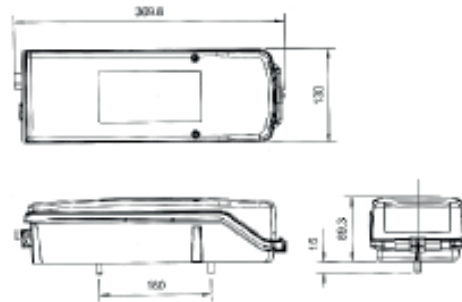
Application	Lens	IP Rating	Left ← Right →	Position, Stop, Dir. indicator	Reverse	Rear fog	Outer end marker	Sidemarkers	License plate	Reflex reflector	Connection	Suitable for	Pos	Article No.
Volvo F, FL & FS > 7/1993	098 292 715	IP54	←	✓	✓	✓			✓		A	1620 476	1	098 212 711
Volvo F, FL & FS > 7/1993	098 292 715	IP54	→	✓	✓	✓					A	1620 477	1	098 212 721
Volvo F, FL & FH 8 /1993 > 7 /1998	098 292 793	IP54	←	✓	✓	✓	✓	✓	✓	✓	B	8191 747	2	098 214 465
Volvo F, FL & FH 8 /1993 > 7 /1998	098 292 793	IP54	→	✓	✓	✓	✓	✓		✓	B	8191 748	2	098 214 475
Volvo F, FM & FH 8 /1998 >	098 293 163	IP54	←	✓	✓	✓	✓	✓	✓	✓	C (s)	3981 455	3	098 213 141
Volvo F, FL & FH 8/1998	098 293 163	IP54	→	✓	✓	✓	✓	✓		✓	C (s)	3981 456	3	098 213 151
Spare parts														
Lens reflex reflector insert for Sidemarkers lamp - For: 098 214 465 / 475														098 292 959

Tail lights bulb

E



Pos 1



A



7 poled DIN bayonet connection
(s) Side mounting

Wired and 2 bulb holders for the rear light area

Pos 1 - Dimension: 370 x 130 x 90 mm

Bolt hole distance: 165 mm

Functions

Application	Lens	IP Rating	Pos	Left ← Right →	Position, Stop, Dir. indicator	Reverse	Rear fog	Outer end marker	Sidemarkers	License plate	Reflex reflector	Connection	Suitable for	Article No.
Volvo FL & FM 2002 >	098 294 442* 198 294 442	IP54	1	→	✓	✓	✓	✓	✓	✓	✓	A (s)	2042 5729 2050 7624	198 214 445
Volvo FL & FM 2002 >	098 294 442* 198 294 442	IP54	1	←	✓	✓	✓	✓	✓		✓	A (s)	2042 5728 2050 7623	198 214 450



TAIL LIGHTS

BUS

Tail lights bulb 24V



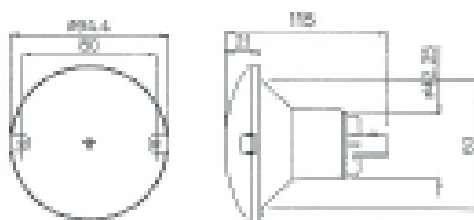
Pos 1



Pos 2



Pos 3



For backwards build-in
Delivered with gasket, plug and 2 pcs. of cable

Functions

Application	IP Rating	Operation voltage	Position	Stop	Dir. indicator	Dimension	Connection	Installation hole	Pos	Article No.
Volvo	IP67	24V	✓	✓		Ø 94,4 x 115/23 mm	3 poled plug	Ø 83 mm	1	098 203 426
Volvo	IP67	24V		✓		Ø 94,4 x 115/23 mm	3 poled plug	Ø 83 mm	2	098 203 422
Volvo	IP67	24V			✓	Ø 94,4 x 115/23 mm	3 poled plug	Ø 83 mm	3	098 223 426

Spare parts

Bulb holder 1 poled			098 292 041
Bulb holder 2 poled			098 292 042

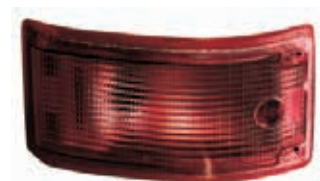
Tail lights bulb 24V



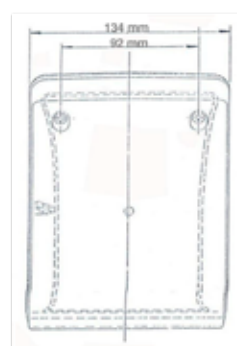
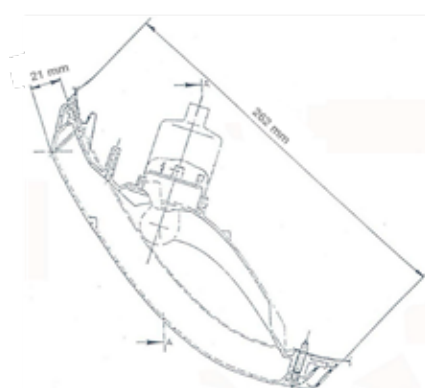
Pos 1

Pos 2a - Front
Pos 2b - Back

Pos 3



Pos 4



Plastic housing. Combination lamp, build-in version. Universal left or right

Dimension: 260 x 132 mm

Bolt hole Distance : 92/115 x 220 mm

Functions

Application	IP Rating	Operation voltage	Position	Stop	Dir. indicator	Reverse	Rear fog	Connection	Suitable for	Pos	Article No.
Busses	IP64	24V	✓					200 mm Cable		1	098 203 035
Busses	IP64	24V		✓				200 mm Cable	2DA 005 603-031	1	098 203 036
Busses	IP64	24V	✓	✓				200 mm Cable		1	098 203 039
Busses	IP64	24V			✓			200 mm Cable	2BA 005 603-011	2a	098 223 037
Busses	IP64	24V			✓			200 mm Cable	2BA 005 603-017	2b	098 223 038
Busses	IP64	24V				✓		200 mm Cable	2ZR 005 603-061	3	098 257 034
Busses	IP64	24V					✓	200 mm Cable	2NE 005 603-071	4	098 257 033

Spare parts

Bulb holder 1 poled - for buslight		098 292 030
Bulb holder 2 poled - for buslight		098 292 032

Tail lights bulb / LED 24V



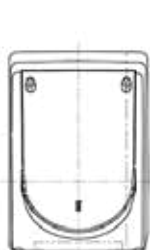
Pos 1



Pos 2



Pos 3



Stop light for rear mounting on smooth surface
Gasket, plug and 2 pcs. of cable
Dimension: 192 x 132 mm mm

Functions

Light source	Operation voltage	Position	Stop	Dir. indicator	Reverse	Connection	Suitable for	Pos	Article No.
Bulb	24V	✓	✓			200 mm Cable	2SB 008 805-021	1	098 203 049
LED	24V	✓	✓			200 mm Cable	2SB 008 982-001	1	098 203 059
Bulb	24V			✓		200 mm Cable	2BA 008 805-054 187	2	098 223 048
Bulb	24V				✓	200 mm Cable		3	098 256 044

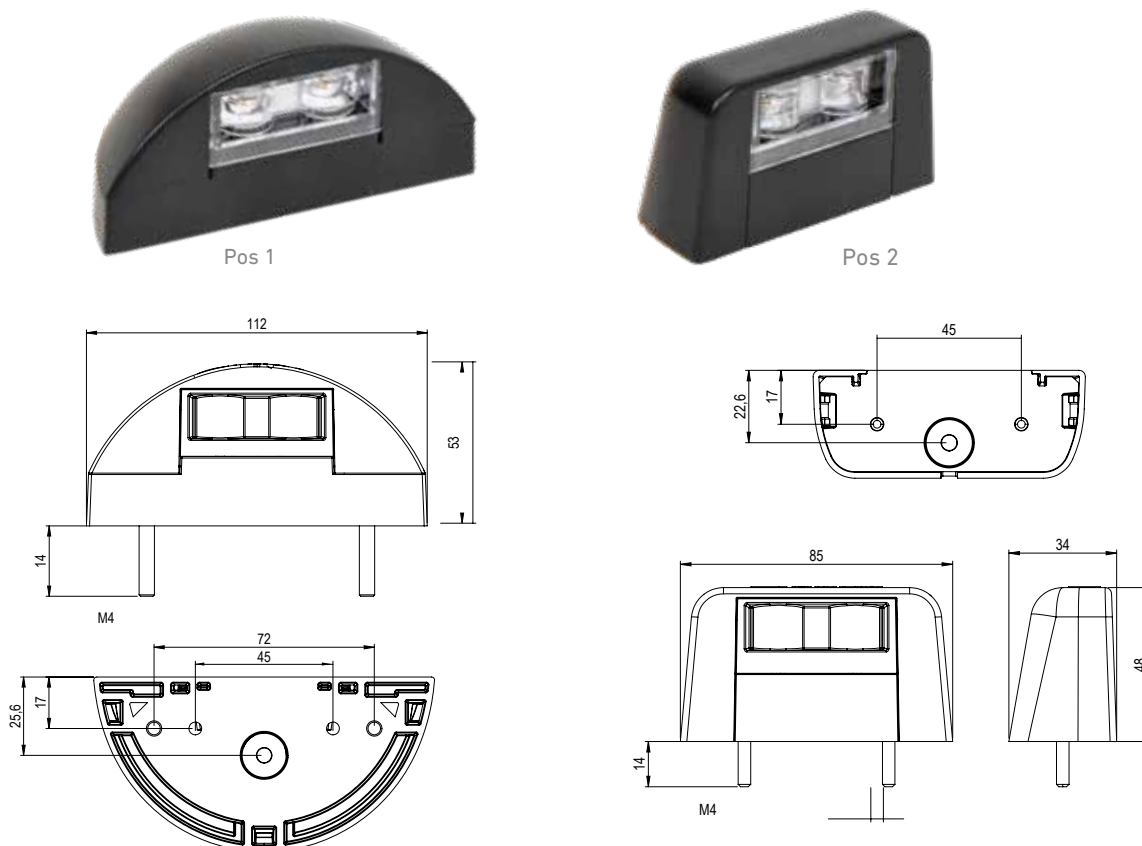
Spare parts

Bulb holder 1 poled			098 292 041
Bulb holder 2 poled			098 292 042



LICENSE PLATE LIGHTS

License plate lights LED 12/24V



Dimension - Half-round design: 112 x 57 x 53 mm

Dimension - Square design: 85 x 34 x 48 mm

Functions

Operation voltage	IP Rating	Connection	Cable length	Bolt hole distance	LED	Conductor cross-section	Pos	Article No.
12V	IP69	Click-in	500 mm	45 mm	2	0,75 mm ²	2	098 254 340
12V	IP69	Click-in	1500 mm	45 mm	2	0,75 mm ²	2	098 254 340
12/24V	IP69	Click-in	500 mm	45 / 72 mm	2	1,5 mm ²	1	098 254 330
12/24V	IP69	Click-in	500 mm	45 mm	2	1,5 mm ²	2	098 254 340
12/24V	IP69	Click-in	1500 mm	45 / 72 mm	2	1,5 mm ²	1	098 254 332
12/24V	IP69	Click-in	1500 mm	45 mm	2	1,5 mm ²	2	098 254 342
12/24V	IP69	Super Seal	500 mm	45 / 72 mm	2	1,5 mm ²	1	098 254 334
12/24V	IP69	Super Seal	500 mm	45 mm	2	1,5 mm ²	2	098 254 344
12/24V	IP69	Open end	2500 mm	45 / 72 mm	2	1,5 mm ²	1	098 254 336
12/24V	IP69	Open end	2500 mm	45 mm	2	1,5 mm ²	2	098 254 346
12/24V	IP69	Rubber grommet	---	45 / 72 mm	2	1,5 mm ²	1	098 254 338
12/24V	IP69	Rubber grommet	---	45 mm	2	1,5 mm ²	2	098 254 348

License plate lights LED / Bulb12/24V



Pos 1 - LED



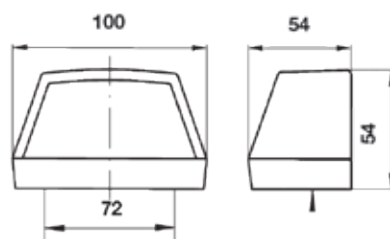
Pos2 - LED



Pos 3 - Bulb



Pos 4 - Bulb



*) Bulbversion is delivered without bulb

Dimension - LED: 100 x 54 x 54 mm

Dimension - Bulb: 100 x 54 x 54 mm

Functions

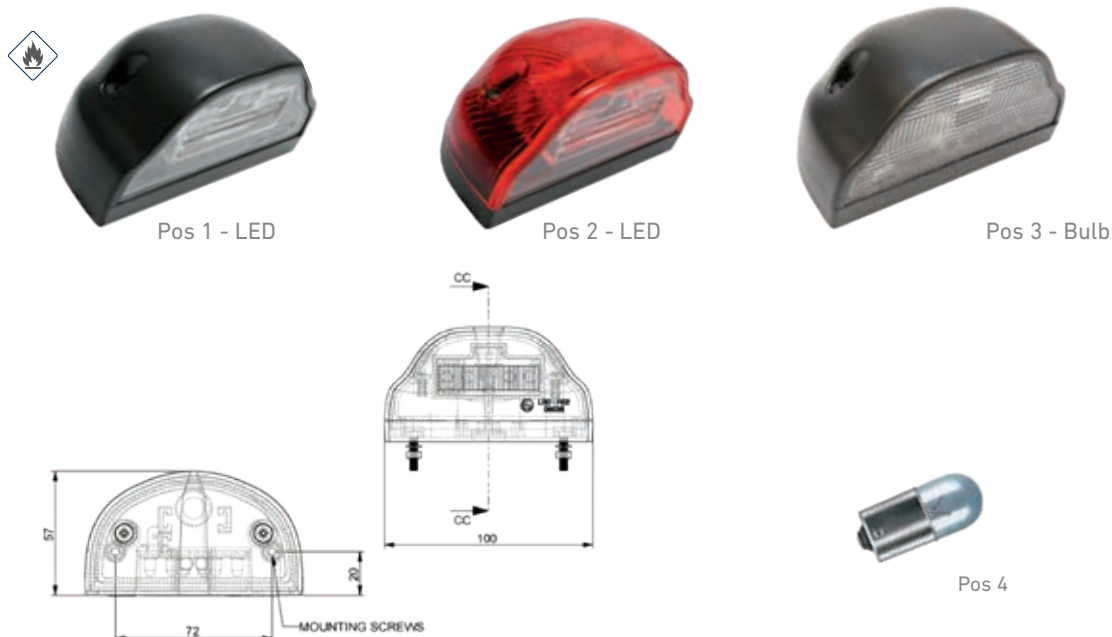
Operation voltage	IP Rating	Light source	Connection	Cable length	Bolt hole distance	Conductor cross-section	Pos	Article No.
12V	IP67	LED	Cable lead through rubber grommet	---	72 mm	1,5 mm ²	1	098 254 163
24V	IP67	LED	Cable lead through rubber grommet	---	72 mm	1,5 mm ²	1	098 254 162
24V	IP67	LED	Click-in	500 mm	72 mm	1,5 mm ²	1	098 254 250
24V	IP67	LED	Click-in	1.500 mm	72 mm	1,5 mm ²	1	098 254 253
12V	IP67	LED	Super Seal socket	500 mm	72 mm	1,5 mm ²	1	098 254 252
24V	IP67	LED	Cable lead through rubber grommet	---	72 mm	1,5 mm ²	2	098 254 165
24V	IP67	LED	Cable lead through Rubber grommet	---	72 mm	1,5 mm ²	2	098 254 167
24V	IP67	LED	Click-In	500 mm	72 mm	1,5 mm ²	2	098 254 251
24V	IP54	Bulb *	Cable lead through rubber grommet	---	72 mm	1,5 mm ²	3	098 254 161
24V	IP54	Bulb *	Click-in	1.500 mm	72 mm	1,5 mm ²	3	098 254 158
12/24V	IP54	Bulb *	Cable lead through rubber grommet	---	72 mm	1,5 mm ²	4	098 254 166

Spare parts

Lamp 24V 5W HD, BA15s	091 624 075
LED-Units 12V	098 254 169
LED-Units 24V	098 254 168

License plate lights LED / Bulb 12/24V

Ⓔ



Dimension: 100 x 57 x 55 mm

Functions

Operation voltage	IP Rating	Light source	Connection	Cable length	Bolt hole distance	Conductor cross-section		Pos	Article No.
12V	IP67	LED 4 pcs.	Cable lead through rubber grommet	---	72 mm	1,5 mm ²		1	098 254 242
24V	IP67	LED 4 pcs.	Cable lead through rubber grommet	---	72 mm	1,5 mm ²	⚠	1	098 254 244
24V	IP67	LED 4 pcs.	Click-in	500 mm	72 mm	1,5 mm ²		1	098 254 245
24V	IP67	LED 4 pcs.	Click-in	500 mm	72 mm	1,5 mm ²	⚠	1	098 254 247
24V	IP67	LED 4 pcs.	Super Seal socket	500 mm	72 mm	1,5 mm ²	⚠	1	098 254 254
24V	IP67	LED 4 pcs.	Open end	3.500 mm	72 mm	1,5 mm ²	⚠	1	098 254 255
12V	IP67	LED 4 pcs.	Cable lead through rubber grommet	---	72 mm	1,5 mm ²		2	098 254 243
24V	IP67	LED 4 pcs.	Cable lead through rubber grommet	---	72 mm	1,5 mm ²		2	098 254 246
12V	IP67	LED 4 pcs.	Click-in	500 mm	72 mm	1,5 mm ²		2	098 254 248
24V	IP67	LED 4 pcs.	Click-in	500 mm	72 mm	1,5 mm ²		2	098 254 249
24V	IP54	Bulb	Cable lead through rubber grommet		72 mm	1,5 mm ²		3	098 254 151
24V	IP54	Bulb	Click-in	500 mm	72 mm	1,5 mm ²		3	098 254 152

Spare parts

Light 24V 5W HD, BA15s	4	091 624 075
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REVERSE, REAR FOG & STOP LIGHTS

LED Reverse & Rear fog light - Ø122 mm for surface mounting

(E) EMC



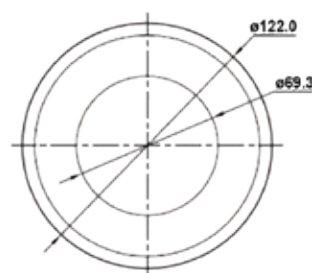
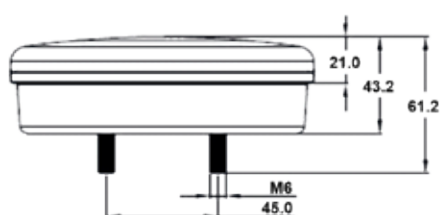
Pos 1



Pos 2



Pos 3



Dimension: Ø122 x 43.2 mm
Surface mounting: Ø122 mm
Connection at the back
Bolt hole distance: 44 mm M6
Working temperature: -30°C - +65°C



7 poled AMP 1.5 socket

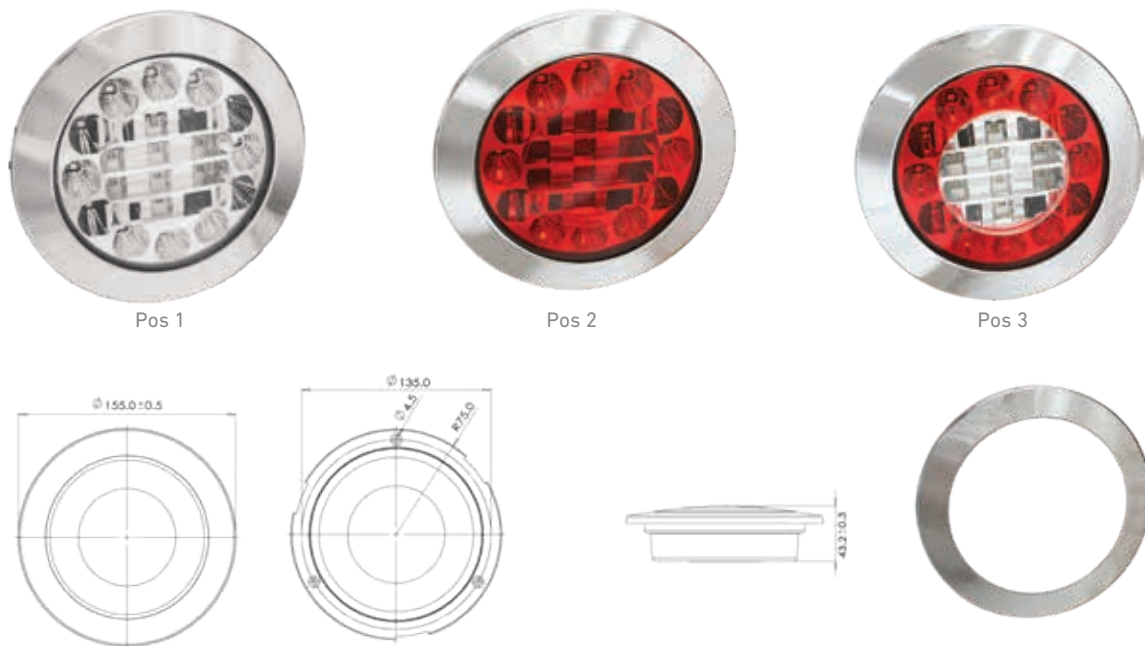


Functions

Light source	IP Rating	Operation voltage	Reverse	Rear fog	Cable length	Connection		Pos	Article No.
LED	IP67	12/24V	✓		2.500 mm	Open end		1	098 256 022
LED	IP67	12/24V	✓		2.500 mm	Open end		1	098 256 026
LED	IP67	12/24V	✓		1.000 mm	Super Seal plug		1	098 256 027
LED	IP67	12/24V	✓		200 mm	7 poled AMP 1.5 socket		1	098 256 023
LED	IP67	12/24V		✓	2.500 mm	Open end		2	098 257 022
LED	IP67	12/24V		✓	2.500 mm	Open end		2	098 257 026
LED	IP67	12/24V		✓	1.000 mm	Super Seal plug		2	098 257 027
LED	IP67	12/24V		✓	200 mm	7 poled AMP 1.5 socket		2	098 257 023
LED	IP67	12/24V	✓	✓	2.500 mm	Open end		3	098 255 022
LED	IP67	12/24V	✓	✓	2.500 mm	Open end		3	098 255 026
LED	IP67	12/24V	✓	✓	2.000 mm	7 poled AMP 1.5 plug		3	098 255 027
LED	IP67	12/24V	✓	✓	200 mm	7 poled AMP 1.5 socket		3	098 255 028

LED Reverse & Rear fog light - Ø127 mm for build-in

(E) EMC



Dimension: Ø155 x 43.2 mm

Build-in: Ø127 mm

Mounting holes 3 pcs. Ø4,5 mm in 120° each Ø135 mm

Connection at the back

Working temperature: -30°C - +65°C



7 poled AMP 1.5 socket

Functions

Light source	IP Rating	Operation voltage	Reverse	Rear fog	Cable length	Connection	Pos	Article No.
LED	IP67	12/24V	✓		2.500 mm	Open end	1	098 256 010
LED	IP67	12/24V	✓		2.500 mm	Open end	1	098 256 016
LED	IP67	12/24V	✓		1.000 mm	Super Seal plug	1	098 256 018
LED	IP67	12/24V	✓		200 mm	7 poled AMP 1.5 socket	1	098 256 012
LED	IP67	12/24V		✓	2.500 mm	Open end	2	098 257 012
LED	IP67	12/24V		✓	2.500 mm	Open end	2	098 257 016
LED	IP67	12/24V		✓	1.000 mm	Super Seal plug	2	098 257 018
LED	IP67	12/24V		✓	200 mm	7 poled AMP 1.5 socket	2	098 257 013
LED	IP67	12/24V	✓	✓	2.500 mm	Open end	3	098 255 016
LED	IP67	12/24V	✓	✓	2.000 mm	7 poled AMP 1.5 plug	3	098 255 017
LED	IP67	12/24V	✓	✓	200 mm	7 poled AMP 1.5 socket	3	098 255 018

Spare parts

Chrome ring Ø155 mm

098 292 216

LED Reverse & Rear fog light - Ø95 mm for surface mounting

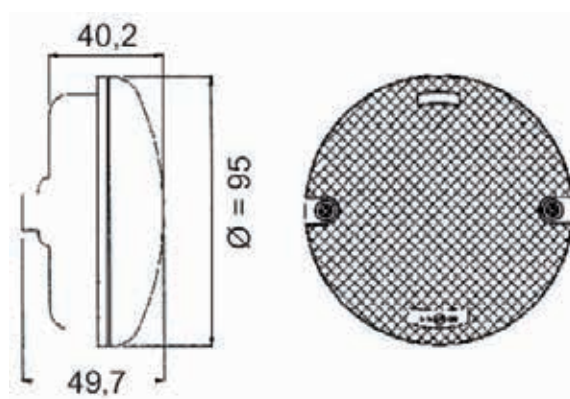
(E)



Pos 1



Pos 2



Connection at the back
Bolt hole distance: 80 mm


Functions

Light source	IP Rating	Operation voltage	Reverse	Rear fog	Dimension	Working temperature	Cable length	Connection	Pos	Article No.
LED	IP67	12V	✓		Ø 95 x 40,2 mm	-40°C - +50°C	500 mm	Open end	1	098 256 072
LED	IP67	24V	✓		Ø 95 x 40,2 mm	-40°C - +50°C	500 mm	Open end	1	098 256 074
LED	IP67	12V		✓	Ø 95 x 40,2 mm	-40°C - +50°C	500 mm	Open end	2	098 257 082
LED	IP67	24V		✓	Ø 95 x 40,2 mm	-40°C - +50°C	500 mm	Open end	2	098 257 084

Spare parts

Gasket, rubber	098 291 655
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LED Reverse & Rear fog light - Ø140 mm for surface mounting
E


Pos 1



Pos 2



Pos 3



Connection at the back
Bolt hole distance: 45 mm


Functions

Light source	IP Rating	Operation voltage	Reverse	Rear fog	Dimension	Working temperature	Connection	Pos	Article No.
LED	IP67	12/24V	✓		Ø 140 x 80 mm	-30°C - +65°C	Cable lead through rubber grommet	1	098 256 343
LED	IP67	24V	✓		Ø 140 x 80 mm	-30°C - +65°C	7 poled AMP 1.5 socket	1	098 256 346
LED	IP67	12V		✓	Ø 140 x 80 mm	-30°C - +65°C	Cable lead through rubber grommet	2	098 257 347
LED	IP67	24V		✓	Ø 140 x 80 mm	-30°C - +65°C	Cable lead through rubber grommet	2	098 257 349
LED	IP67	24V		✓	Ø 140 x 80 mm	-30°C - +65°C	7 poled AMP 1.5 socket	2	098 257 346
LED	IP67	10-30V	✓	✓	Ø 140 x 80 mm	-30°C - +65°C	Cable lead through rubber grommet	3	098 255 341
LED	IP67	10-30V	✓	✓	Ø 140 x 80 mm	-30°C - +65°C	7 poled AMP 1.5 socket	3	098 255 346

Spare parts

Gasket, rubber	098 291 655
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LED Reverse & Rear fog light - Ø140 mm for surface mounting

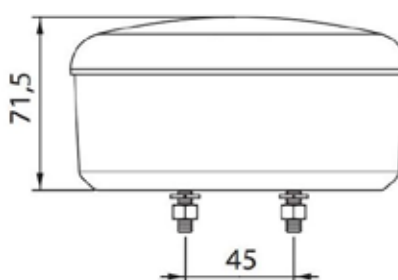
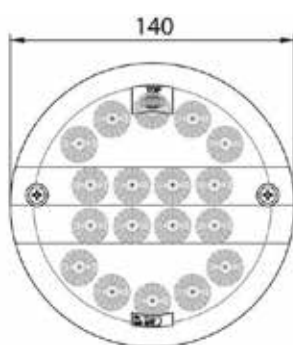

Pos 1



Pos 2



Pos 3



18 LEDs

Dimension: Ø140 x 80 mm

Connection at the back

Bolt hole distance: 45 mm

Working temperature: -40°C - +85°C

IP67 rating


Functions

Light source	IP Rating	Operation voltage	Reverse	Backwards fog	Connection	Pos	Article No.
LED	IP67	9-33V	✓		Cable lead through rubber grommet	1	098 256 309
LED	IP67	9-33V		✓	Cable lead through rubber grommet	2	098 257 307
LED	IP67	9-33V		✓	Cable lead through rubber grommet	3	098 257 308

Spare parts

Chromed mounting set "design"	098 292 369
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Reverse & Rear fog light - Ø140 mm for surface mounting

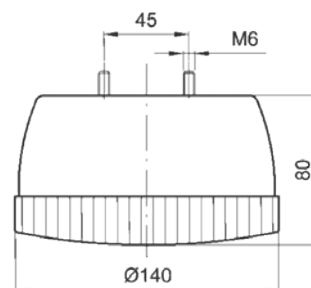
E



Pos 1



Pos 2



Dimension: Ø140 x 90 mm
Bolt hole distance: 45 mm (M66)



Functions

Light source	IP Rating	Operation voltage	Reverse	Backwards fog	Connection	Pos	Article No.
LED	IP67	24V	✓		Cable lead through rubber grommet	1	098 256 049
LED	IP67	24V		✓	Cable lead through rubber grommet	2	098 257 047

Spare parts

Chromed mounting set "design"	098 292 360
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LED Reverse & Rear fog light - Ø103 mm for surface mounting

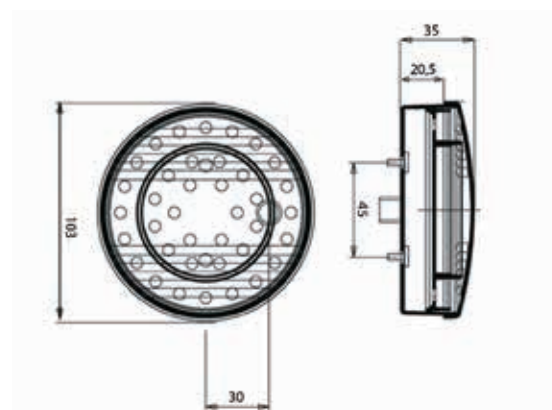
E



Pos 1



Pos 2



Dimension: Ø103 x 35 mm
Bolt hole distance: 45 mm



Functions

Light source	IP Rating	Operation voltage	Reverse	Backwards fog	Cable length	Connection	Pos	Article No.
LED	IP67	12V	✓		1000 mm	Open end	1	098 256 172
LED	IP67	24V	✓		1000 mm	Open end	1	098 256 174
LED	IP67	12V		✓	1000 mm	Open end	2	098 257 072
LED	IP67	24V		✓	1000 mm	Open end	2	098 257 074

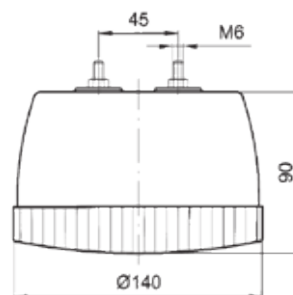
Reverse & Rear fog light - Ø140 mm for surface mounting



Pos 1



Pos 2



Bolt hole distance: 45 mm (M6)
Delivered without bulb



Functions

Light source	IP Rating	Operation voltage	Reverse	Rear fog	Working temperature	Dimension	Connection	Suitable for	Pos	Article No.
Bulb	IP54	12/24V	✓		-20°C - +60°C	Ø 140 x 90 mm	Cable lead through rubber grommet	24.033-001	1	098 256 040
Bulb	IP54	12/24V		✓	-20°C - +60°C	Ø 140 x 90 mm	Cable lead through rubber grommet	24.033-001	2	098 256 050

Spare parts

Lens, transparent for 098 256 040	098 292 242
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Reverse & Rear fog light - Bulb 12/24V

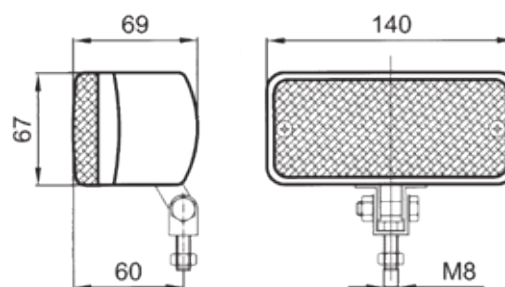
(E)



Pos 1



Pos 2



With adjustable swivel foot
Standing or hanging backward surface mounting

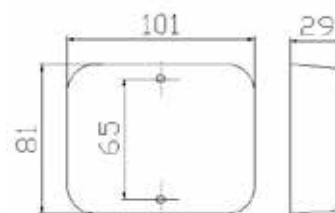


Functions

Light source	IP Rating	Operation voltage	Reverse	Rear fog	Dimension	Connection	Suitable for	Pos	Article No.
Bulb	IP54	12/24V	✓		140 x 67 x 69 mm	Cable lead through rubber grommet	24.056-011	1	098 256 015
Bulb	IP54	12/24V		✓	140 x 67 x 69 mm	Cable lead through rubber grommet	24.056-011	2	098 256 013

LED Reverse & Rear fog light 12/24V

E



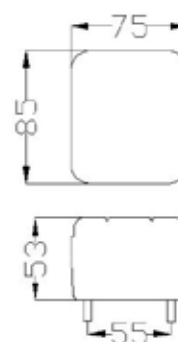
Dimension: 101 x 81 x 29 mm
Bolt hole distance: 65 mm

**Functions**

Light source	IP Rating	Operation voltage	Reverse	Rear fog	Cable length	Connection	Article No.
19 LED	IP54	12/24V	✓		200 mm	Open end	098 256 700
19 LED	IP54	12/24V		✓	200 mm	Open end	098 257 700

Rear fog light bulb, 12V

E



Dimension: 87 x 77 x 50 mm
Bolt hole distance: 55 mm

**Functions**

Light source	IP Rating	Operation voltage	Reverse	Rear fog	Cable length	Connection	Article No.
Bulb	IP54	12/24V	✓		Cable lead through rubber grommet	Open end	098 256 132
Bulb	IP54	12/24V		✓	Cable lead through rubber grommet	Open end	098 257 132

Reverse & Rear fog light - for surface mounting, 12/24V

E



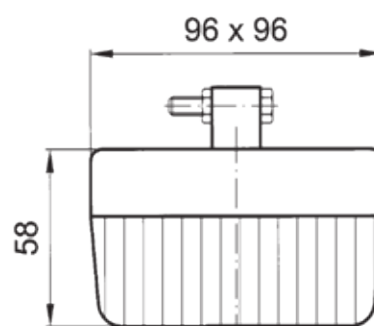
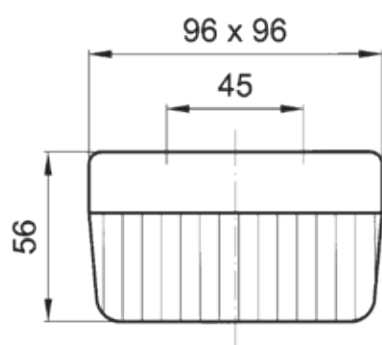
Pos 1



Pos 2



Pos 3



With rubber gasket

Dimension Pos 1 and 2: 96 x 96 x 56 mm

Dimension Pos 3: 96 x 96 x 58 mm

Working temperature: -20°C - +60°C



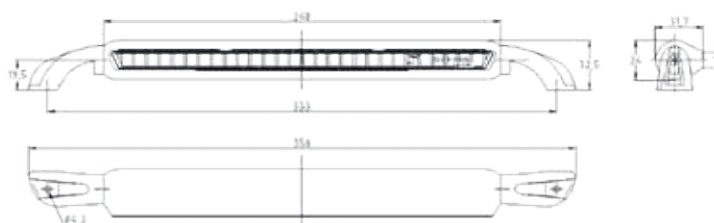
Functions

Light source	IP Rating	Operation voltage	Reverse	Rear fog	Connection	Suitable for	Pos	Article No.
Bulb	IP54	12/24V	✓		Cable lead through rubber grommet	24.030-051	1	098 256 034
Bulb	IP54	12/24V		✓	Cable lead through rubber grommet	23.093-001	2	098 256 032
Bulb	IP54	12/24V	✓		Cable lead through rubber grommet	24.030-111	3	098 256 036

LED Stop light

Volvo / Säftele Citybus

E



Stop light for backwards mounting at a smooth surface

Delivered with gasket, plug and 2 pcs. of cable

Working temperature: -25°C - +65°C

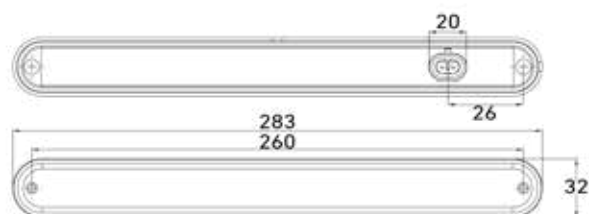
Dimension: Ø94,4 x 115 mm

Functions

Light source	LED	IP Rating	Operation voltage	Stop	Connection	Article No.
LED	28	IP67	24V	✓	2300 mm cable open end	098 203 754

LED Stop light

E



Surface mounting or build-in

Bolt hole distance: 260 mm

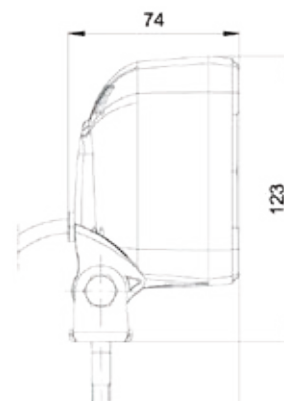
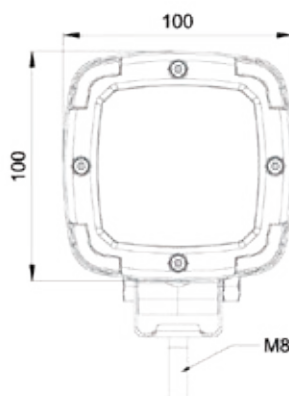
Dimension: 283 x 24 x 32 mm

Working temperature: -25°C - +65°C

Functions

Light source	LED	IP Rating	Operation voltage	Stop	Connection	Article No.
LED	20	IP67	12V	✓	250 mm cable with 2 poled Super Seal socket	098 203 712
LED	20	IP67	24V	✓	250 mm cable with 2 poled Super Seal socket	098 203 724
LED	20	IP67	24V	✓	200 mm cable with 2 poled Super Seal socket	 098 203 725

LED Reversing light



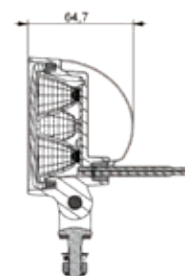
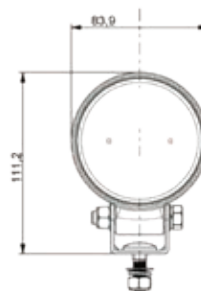
Heavy plastic housing with ventilation for cooling
No risk of icing as the lens gets warm when the light is turned on
Working temperature: -40°C til +35°C

Functions

Light source	Operation voltage	IP Rating	Connection	Cable length	Dimension	Consumption	Lumen Theoretical/ effective	Article No.
9 x LED High power Osram	10-50V	IP68	Super Seal plug	1.400 mm	100 x 100 x 74 mm	15 W	240 / 180	098 256 494
9 x LED High power Osram	10-50V	IP68	Open end	1.400 mm	100 x 100 x 74 mm	15 W	240 / 180	098 256 495
9 x LED High power Osram	10-50V	IP68	Super Seal socket	250 mm	100 x 100 x 74 mm	15 W	240 / 180	098 256 496
9 x LED High power Osram	10-50V	IP68	Open end	6.000 mm	100 x 100 x 74 mm	15 W	240 / 180	098 256 497
9 x LED High power Osram	10-50V	IP68	Super Seal plug	6.000 mm	100 x 100 x 74 mm	15 W	240 / 180	098 256 499

LED Reversing light

(E) EMC



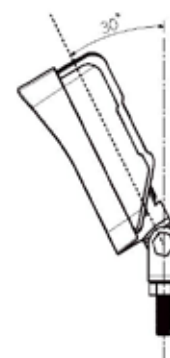
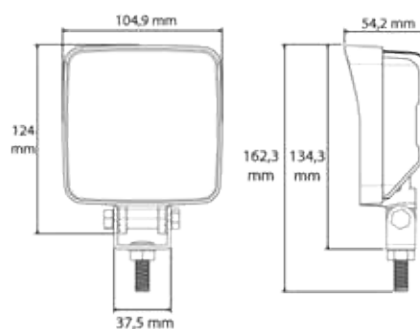
Strong aluminum housing with cooling fins
No risk of icing as the lens gets warm when the light is turned on
Working temperature: -40°C til +65°C

Functions

Light source	Operation voltage	IP Rating	Connection	Cable length	Dimension	Consumption	Lumen Theoretical/ effective	Article No.
4 x LED High power Osram	10-30V	IP67	Open end	1.000 mm	Ø84 x 55 mm	12 W	1000 / 600	098 256 080

LED Reversing light

(E)



LED Working lights with black aluminum housing with SMD high consumption LEDs

NOTE: Tested as reversing light with 30° inclination at vertical mounting

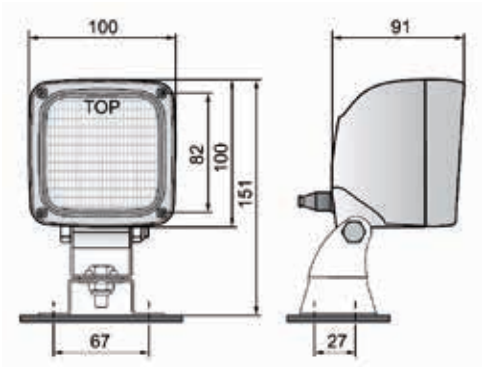
Power consumption: 1,2A at 12V DC, 0,6A at 24V DC

Working temperature: -30° - +50° C

Functions

Light source	Operation voltage	IP Rating	Connection	Cable length	Dimension	Consumption	Lumen	Flash pattern	Article No.
6 x LED LED SMD	12-36 V	IP69	Open end	280 mm	125 x 125 x 54 mm	18 W	1200	Flood	098 174 145
6 x LED LED SMD	12-36 V	IP69	Super Seal socket	200 mm	125 x 125 x 54 mm	18 W	1200	Flood	098 174 147

H3 Reversing light



Lens of mineral-glass
Total height with bracket: 151 mm

Functions

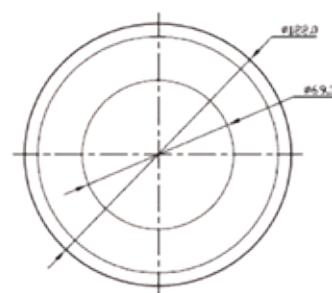
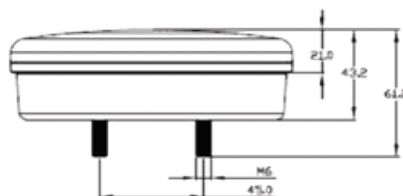
Light source	IP Rating	Operation voltage	Reverse	Dimension	Connection	Article No.
Halogen	IP67	12/24V	✓	100 x 100 x 91 mm	Flat plug	098 256 200



DIRECTION INDICATOR LIGHTS

Direction indicator lights LED 12/24V - for surface mounting

E EMC



7 poled AMP 1.5 socket

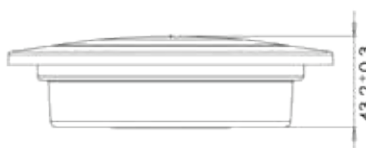


Functions

Light source	IP Rating	Operation voltage	Dimension	Cable length	Connection	Bolt hole distance	Article No.
LED	IP67	12/24V	Ø122 x 43,2 mm	2500 mm	Open end	45 mm M6	098 222 022
LED	IP67	12/24V	Ø122 x 43,2 mm	1000 mm	Super Seal plug	45 mm M6	098 222 027
LED	IP67	12/24V	Ø122 x 43,2 mm	200 mm	7 poliger AMP socket	45 mm M6	098 222 023

Direction indicator lights LED 12/24V - for build-in

E EMC



7 poled AMP 1.5 socket

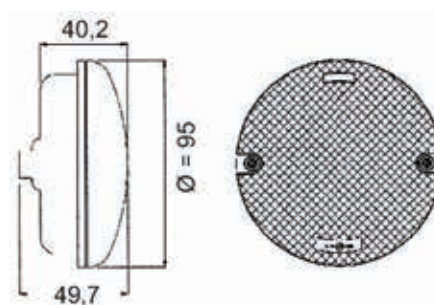
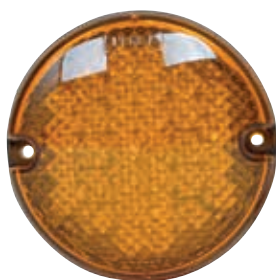


Functions

Light source	IP Rating	Operation voltage	Dimension	Cable length	Connection	Bolt hole distance	Article No.
LED	IP67	12/24V	Ø122 x 43,2 mm	2500 mm	Open end	3 pcs. Ø4,5 mm in 120° verteilt	098 222 012
LED	IP67	12/24V	Ø122 x 43,2 mm	1000 mm	Super Seal plug	3 pcs. Ø4,5 mm in 120° verteilt	098 222 018
LED	IP67	12/24V	Ø122 x 43,2 mm	200 mm	7 poled AMP socket	3 pcs. Ø4,5 mm in 120° verteilt	098 222 013

Direction indicator lights LED 12/24V

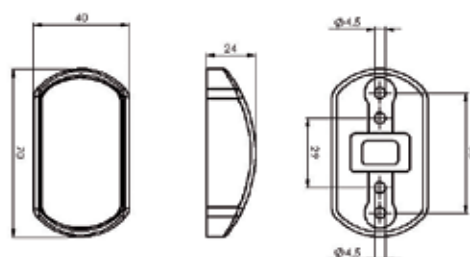
E



Functions

Light source	IP Rating	Operation voltage	Dimension	Cable length	Connection	Bolt hole distance	Article No.
LED	IP67	12V	Ø95 x 40,2 mm	500 mm	Open end	80 mm	098 226 092
LED	IP67	24V	Ø98 x 26,2 mm	500 mm	Open end	80 mm	098 226 094

Direction indicator lights LED 9-33V



Functions

Light source	IP Rating	Operation voltage	Dimension	Cable length	Connection	Bolt hole distance	Article No.
LED - 4 St	IP67	9-33V	70 x 40 x 24 mm	500 mm	Open end	29 or 50 mm	998 221 501

Direction indicator lights, LED 12/24V



2 impact resistant LED units in each light. 6 LED pro LED units

Functions

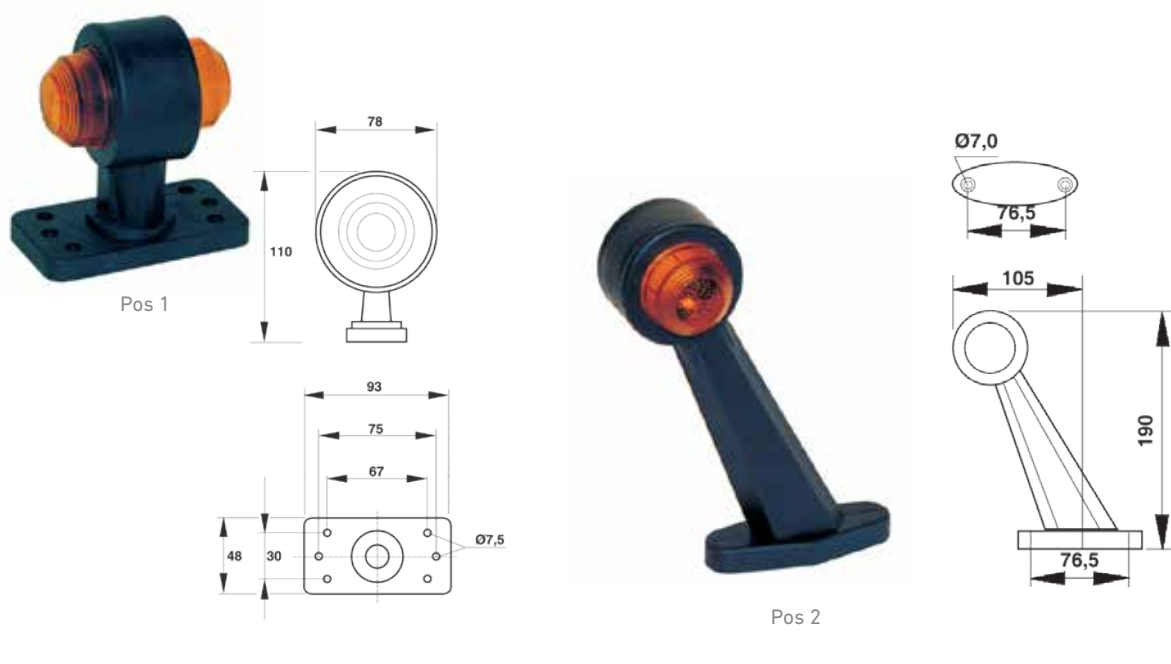
Light source	IP Rating	Operation voltage	Connection	Variant	Pos	Article No.
LED	IP54	12/24V	1500 mm cable open end	360° swiveling, short	1	098 221 066
LED	IP54	12/24V	1500 mm cable open end	360° swiveling, inclined	2	098 221 076

Spare parts

LED-units	098 291 066
Rubber gasket , inclined for 098 221 076	098 291 119

Direction indicator lights, Bulb 12/24V

E



Functions

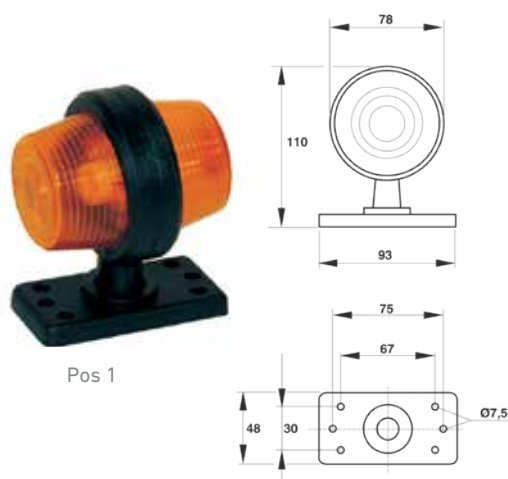
Socket version	IP Rating	Operation voltage	Connection	Surface mounting	Pos	Article No.
BA15s	IP54	12/24V	450 mm cable Open end	360° swiveling, short	1	098 221 112
BA15s	IP54	12/24V	350 mm cable open end	360° swiveling, inclined	2	098 221 181

Spare parts

Lens Ø47	098 291 127
Black lens	098 291 124
Bulb holder with screw connection	098 291 126
Bulb holder with cable	098 291 125
Rubber gasket , inclined for 098 221 181	098 291 119

Direction indicator lights, Bulb 12/24V

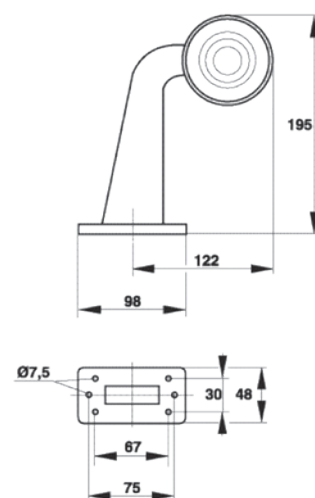
E



Pos 1



Pos 2



Bulb holder for 2 lights

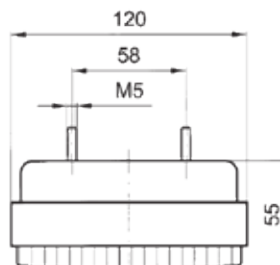
Functions

Socket version	IP Rating	Operation voltage	Connection	Surface mounting	Pos	Article No.
BA15s	IP54	12/24V	Flat plug	Short version	1	098 221 161
BA15s	IP54	12/24V	Flat plug	360° swiveling, inclined	2	098 221 171

Spare parts

Lens	098 291 167
Bulb holder	098 291 166
Rubber gasket , inclined for 098 221 171	098 291 119

Direction indicator lights, Bulb with position light 12/24V



Dimension: 120 x 80 x 55 mm
Bolt hole distance: 58 mm



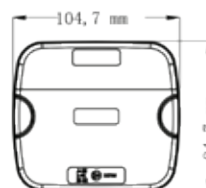
Functions

Socket version	IP Rating	Operation voltage	Connection	Light functions	SAW Suitable for	Article No.
BA15s	IP55	12/24V	Cable lead through rubber grommet	Flash / Position	22.028-091	098 222 130

Spare parts

Lens	098 292 132
------	-------------

Direction indicator and position light LED 12/24V



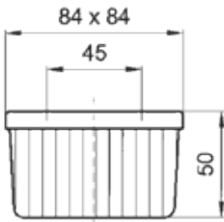
Bolt hole distance: 90 mm



Functions

Light source	IP Rating	Operation voltage	Connection	Light functions	Dimension	Article No.
LED	IP67	12/24V	150 mm cable open end	Flash / Position	105 x 95 x 25 mm	098 222 470

Direction indicator lights, Bulb with position light 12/24V



Dimension: 84 x 84 x 50 mm
Bolt hole distance: 45 mm



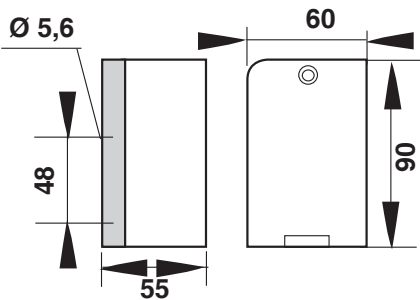
Functions

Socket version	IP Rating	Operation voltage	Connection	Light functions	SAW Suitable for	Article No.
BA15s	IP54	12/24V	Cable lead through rubber grommet	Flash / Position	22.028-091	098 227 020

Spare parts

Lens	098 290 985
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Direction indicator lights, Bulb 12/24V



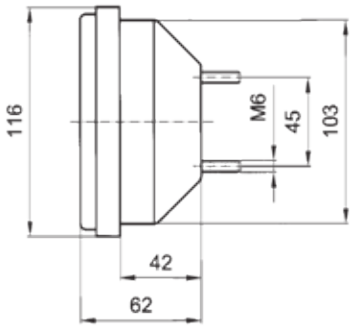
Black plastic base plate
Flat plug connection



Functions

Socket version	IP Rating	Operation voltage	Connection	Mounting	Seite	Article No.
BA15s	IP55	12/24V	Cable lead through rubber grommet	For vertical front or side mounting (category 1,4,5&6)	Left	098 227 470
BA15s	IP55	12/24V	Cable lead through rubber grommet	For vertical front or side mounting (category 1,4,5&6)	Right	098 227 471

Direction indicator lights, Bulb 24V - Mercedes Benz O305/402/405/407/408 MAN, Kässbohrer, Neoplan



Combi light for horizontal build-in at a smooth surface
Dimension: 138 x 116 x 62



Functions

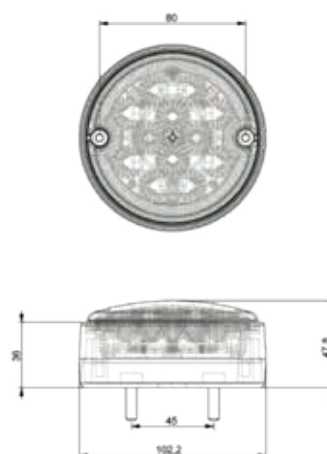
Socket version	IP Rating	Operation voltage	Connection	Mounting	Suitable for	Surface mounting side	Article No.
BA15s	IP54	24V	Cable lead through rubber grommet	For side mounting (category 2a & 5)	A 941 820 05 21	Left/right	098 223 044

Spare parts

Lens	098 290 084
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Direction indicator lights with position light LED

E



For surface mounting
Bolt hole distance: 45 mm

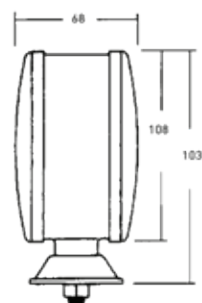


Functions

Light source	IP Rating	Operation voltage	Connection	Light functions	Dimension	Article No.
LED - 12	IP54	9-33V	1.000 mm cable open end	Flash / Position	Ø95 x 48 mm	098 223 106

Direction indicator lights, Bulb 12/24V

E



Hollow screw 3/4 UNF for cable entry fixing



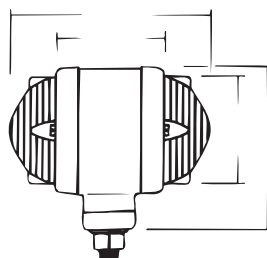
Functions

Socket version	Operation voltage	Connection	Surface mounting	Article No.
BA15s	12/24V	150 mm cable open end	Side (category 5)	098 224 300

Spare parts

Lens, Amber	098 294 337
Lens, Red	098 294 335
Lens, Clear	098 294 336
Connection cable	098 291 455

Direction indicator lights, Bulb 12/24V



Hollow screw 3/4 UNF for cable entry fixing
Front, side and back surface mounting
Bulb holder for 2 lights (delivered without bulb)



Functions

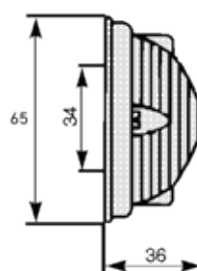
Socket version	IP Rating	Operation voltage	Connection	Variant	Article No.
BA15s	IP54	12/24V	200 mm cable open end	Stainless steel rim	098 222 000
BA15s	IP54	12/24V	200 mm cable open end	Stainless steel rim and housing cap	098 222 001

Spare parts

Lens	098 294 007
Connection cable	098 291 455

Direction indicator lights, Bulb 12/24V

E



Steel base plate with rubber gasket (delivered without bulb)



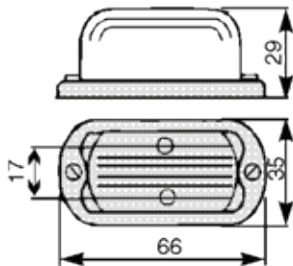
Functions

Socket version	IP Rating	Operation voltage	Surface mounting	Variant	SAW-ref	Article No.
SV 8,5	IP54	12/24V	Side (category 5)	Stainless steel rim	20.022-021	098 224 490

Spare parts

Lens	098 294 497
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Direction indicator lights, Bulb 12/24V



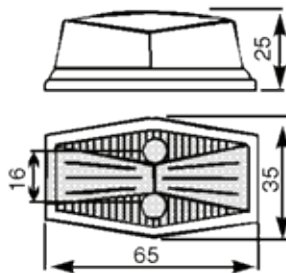
Aluminum base plate with rubber gasket
Chromed brass rim



Functions

Socket version	Operation voltage	Connection	Mounting	Article No.
SV 8,5	12/24V	Cable lead through rubber grommet	Front, side and back	098 221 550

Direction indicator lights, Bulb 12/24V



Chromed brass base plate with rubber gasket



Functions

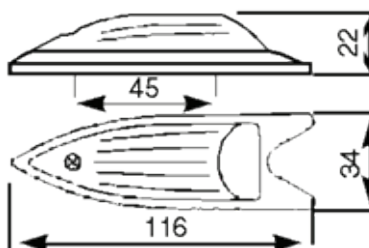
Socket version	Operation voltage	Connection	Mounting	Article No.
BA 9s	12/24V	Cable lead through rubber grommet	Side (Category 5)	098 228 400

Spare parts

Lens	098 298 407
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Direction indicator lights, Bulb 12/24V

E



Steel base plate with rubber gasket

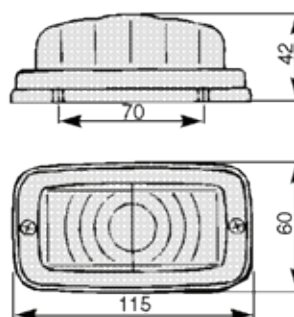


Functions

Socket version	Operation voltage	Connection	Mounting	Article No.
BA 9s	12/24V	Cable lead through rubber grommet	Side (Category 5)	098 228 700

Direction indicator lights, Bulb 12/24V

E



Steel base plate with rubber gasket



Functions

Socket version	IP Rating	Operation voltage	Connection	Mounting	Article No.
BA15s	IP54	12/24V	200 mm cable open end	Side (Category 5)	098 221 450

Spare parts

Lens	098 291 457
Connection cable	098 291 455



SIDEMARKER & POSITION LIGHT

LED Sidemarker light 12/24V



2 LEDs with reflex reflector

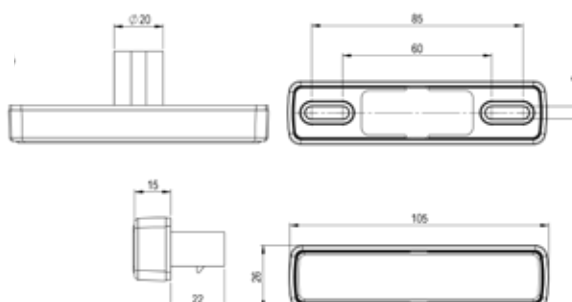
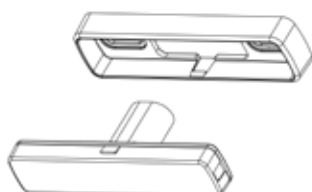
Dimension: with standard frame B x H x T: 105 x 26 x 13 mm

Variable mounting hole distance: 60-85 mm

IP69 Rating



Standard frame - with Super Seal socket



Straight



Forwards 90°



Backwards 90°

LED Sidemarker light 12/24V

Variants

Mounting bracket	Connection	Cable length	Click-In Suitable for conductor- cross section	Operation voltage	Sidemarker Amber	Position- light White	Position- light Red
Standard frame	Super Seal socket	---	---	12/24V	098 221 726	098 230 726	098 204 726
Straight	Super Seal socket	---	---	12/24V	098 221 742		
90° bracket backwards	Super Seal socket	---	---	12/24V	098 221 748		
90° bracket forwards	Super Seal socket	---	---	12/24V	098 221 756		
Standard frame	Click-In	500 mm	1,5 mm ²	12/24V	098 221 720	098 230 720	098 204 720
Standard frame	Click-In	1.500 mm	1,5 mm ²	12/24V	098 221 722	098 230 722	098 204 722
Standard frame	Click-In	5.000 mm	1,5 mm ²	12/24V	098 221 724	098 230 724	098 204 724
Straight Mounting bracket	Click-In	500 m	1,5 mm ²	12/24V	098 221 738		
Straight Mounting bracket	Click-In	1.500 mm	1,5 mm ²	12/24V	098 221 740		
90° bracket backwards	Click-In	500 mm	1,5 mm ²	12/24V	098 221 744		
90° bracket backwards	Click-In	1.500 mm	1,5 mm ²	12/24V	098 221 746		
90° bracket forwards	Click-In	500 mm	1,5 mm ²	12/24V	098 221 752		
90° bracket forwards	Click-In	1.500 mm	1,5 mm ²	12/24V	098 221 754		
Standard frame	Open end 1,5 mm ²	500 mm	---	12/24V	098 221 730	098 230 730	
Standard frame	Open end 1,5 mm ²	2.500 mm	---	12/24V	098 221 732	098 230 732	098 204 732
Standard frame	Open end 1,5 mm ²	5.000 mm	---	12/24V	098 221 734	098 230 734	098 204 734
Standard frame	Open end 1,5 mm ²	10.000 mm	---	12/24V	098 221 736		

Spare parts

Standard frame	098 292 700
Mounting bracket, straight	098 292 701
Mounting bracket - 90° backwards	098 292 702
Mounting bracket - 90° forwards	098 292 703

Sidemarker light LED 12/24V



LED Sidemarker- and position light 12/24V

Amber, white, red

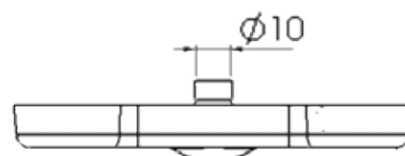
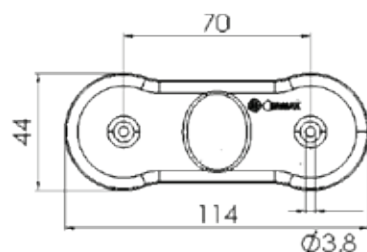
2 LEDs with reflex reflector

Dimension: without mounting bracket: B x H x T: 114 x 44 x 16 mm

Distance between mounting holes, center to center: 70 mm

Consumption: 1,4W

IP67 Rating



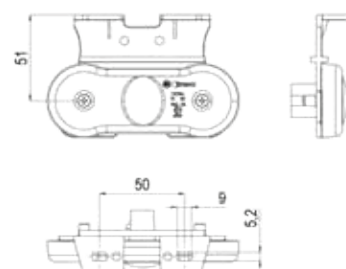
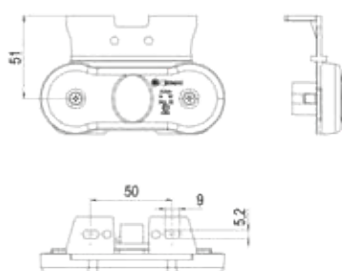
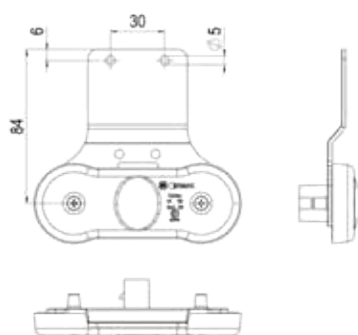
Straight



Forwards 90°



Backwards 90°



Sidemarker light LED 12/24V

Functions							
Mounting bracket	Connection	Cable length	Conductor cross section	Operation voltage	Sidemarker Amber	Position-light White	Position-light Red
Without bracket	Super Seal socket	---	---	12/24V	098 221 620	098 230 401	098 204 501
Straight bracket	Super Seal socket	---	---	12/24V	098 221 630		
90° bracket backwards	Super Seal socket	---	---	12/24V	098 221 640		
90° bracket forwards	Super Seal socket	---	---	12/24V	098 221 650	098 230 430	
Without mounting bracket	Super Seal socket	1.500 mm	1,5 mm ²	12/24V	098 221 628	098 230 428	
90° bracket forwards	Super Seal socket	1.500 mm	1,5 mm ²	12/24V	098 221 664		
Without mounting bracket	Super Seal plug	5.000 mm	1,5 mm ²	12/24V	098 221 627		
Without mounting bracket	Super Seal plug	10.000 mm	1,5 mm ²	12/24V	098 221 629	098 230 431	
90° bracket backwards	Super Seal socket	15.000 mm	1,5 mm ²	12/24V	098 221 662		
Without mounting bracket	Click-In	500 mm	1,5 mm ²	12/24V	098 221 621	098 230 405	098 204 502
Without mounting bracket	Click-In	1.500 mm	1,5 mm ²	12/24V	098 221 622	098 230 415	098 204 503
Without mounting bracket	Click-In	5.000 mm	1,5 mm ²	12/24V	098 221 623	098 230 450	098 204 504
Straight Mounting bracket	Click-In	500 mm	1,5 mm ²	12/24V	098 221 631		
Straight Mounting bracket	Click-In	1.500 mm	1,5 mm ²	12/24V	098 221 632		
90° bracket backwards	Click-In	500 mm	1,5 mm ²	12/24V	098 221 641		
90° bracket backwards	Click-In	1.500 mm	1,5 mm ²	12/24V	098 221 642		
90° bracket forwards	Click-In	500 mm	1,5 mm ²	12/24V	098 221 651		
90° bracket forwards	Click-In	1.500 mm	1,5 mm ²	12/24V	098 221 652		
Without mounting bracket	Click-In	500 mm	0,75 mm ²	12/24V	098 221 633	098 230 406	
Without mounting bracket	Click-In	1.500 mm	0,75 mm ²	12/24V	098 221 634	098 230 634	
Without mounting bracket	Click-In	2.500 mm	0,75 mm ²	12/24V			098 204 508
Without mounting bracket	Open end 1,5 mm ²	500 mm	---	12/24V	098 221 624	098 230 420	098 204 505
Without mounting bracket	Open end 1,5 mm ²	1.500 mm	---	12/24V	098 221 625	098 230 425	
Without mounting bracket	Open end 1,5 mm ²	5.0000 mm	---	12/24V	098 221 626	098 230 427	098 204 507

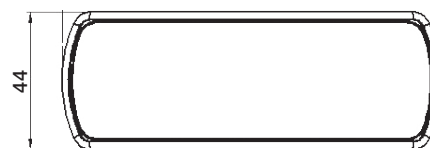
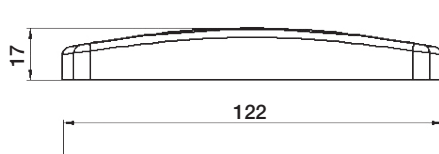
Sidemarker light LED 9-33V

Sidemarker- and position light

E SM1



Flat mounting - without mounting bracket



Backwards 90°



Pos 1

4 LED without reflex reflector

Dimension: without mounting bracket B x H x T: 122 x 44 x 17 mm

Variable mounting 65 - 90 mm

Dual-polarity

Consumption: 1,0W

Functions

Mounting bracket	Connection	Cable length	Operation voltage	Light source	IP Rating	Position White	Sidemarker Amber	Position Red
Flat mounting	Open end	500 mm	9-33V	LED	IP67	098 230 601	098 221 601	098 203 601
Flat mounting	Open end	5.000 mm	9-33V	LED	IP67	098 230 605	098 221 605	098 203 605
Flat mounting	Open end	10.000 mm	9-33V	LED	IP67		098 221 610	
Backwards 90°	Open end	500 mm	9-33V	LED	IP67		098 221 610	
Backwards 90°	Click-In	5.000 mm	9-33V	LED	IP67		098 221 610	

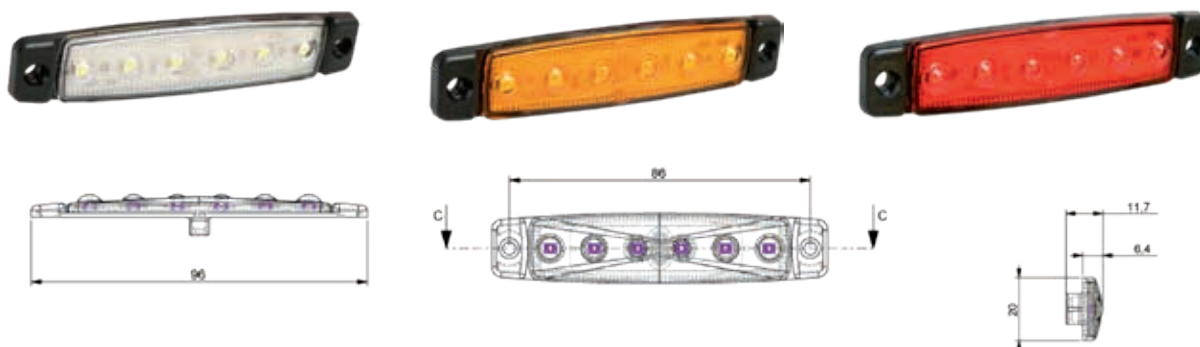
Spare parts

Gasket		098 291 606
Protective body, steel plate, untreated - suitable for flat mounting lights	Pos 1	098 291 911
Protective body, galvanized steel plate - suitable for flat mounting lights	Pos 1	098 291 912

Sidemarker light LED 12/24V

Sidemarker- and position light

(E) SM1



6 LED without reflex reflector - reverse polarity protected

Dimension with frame: 96 x 20 x 6,4 mm

Bolt hole distance: 86 mm

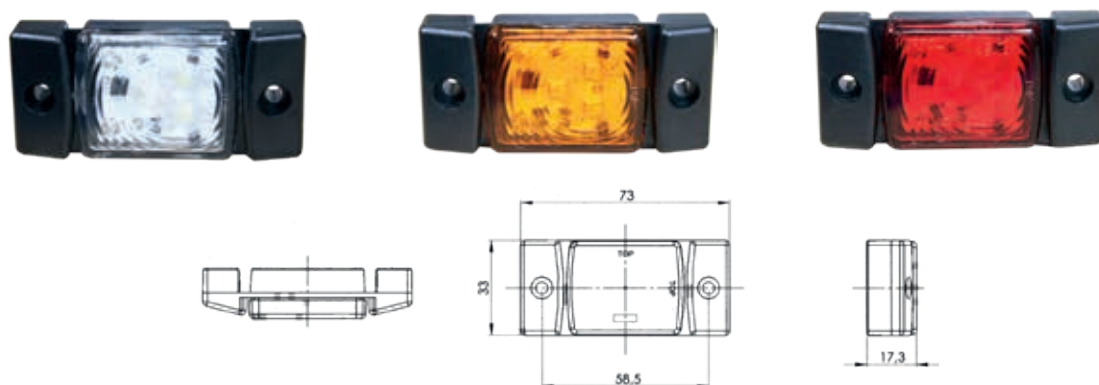
Functions

Mounting bracket	Connection	Cable length	Operation voltage	Light source	IP Rating	Position White	Sidemarker Amber	Position Red
Flat mounting	Open end	270 mm	12V	6 LED's	IP67	098 230 422	098 221 422	098 200 422
Flat mounting	Open end	350 mm	12V/24V	6 LED's	IP67	098 230 423	098 221 423	098 200 423
Flat mounting	Open end	5.000 mm	12V/24V	6 LED's	IP67		098 221 426	098 200 426

Sidemarker light LED 12/24V

Sidemarker- and position light

(E)



3 LED without reflex reflector

Dimension with frame: 73 x 35 x 17,3 mm

Bolt hole distance: 58,5 mm

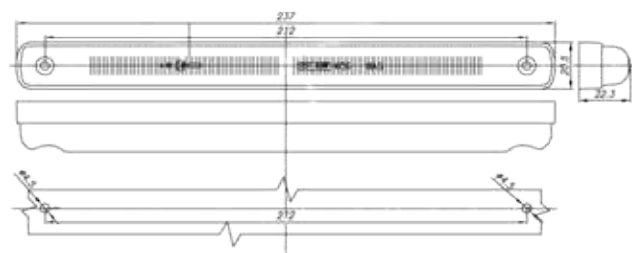
Functions

Mounting bracket	Connection	Cable length	Operation voltage	Light source	IP Rating	Position White	Sidemarker Amber	Position Red
Flat mounting	Open end	400 mm	12/24V	3 LED's	IP68	098 231 833	098 221 833	098 201 833

Sidemarker light LED 24V

Sidemarker- and contour light

E SM1



3 LED and fiberoptik, yellow
Transperant lens
Dimension: 237 x 20 x 22 mm
Bi-polarity



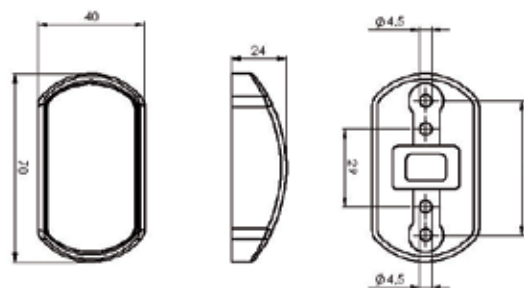
Functions

Mounting bracket	Connection	Cable length	Operation voltage	Light source	IP Rating	Position White	Sidemarker Amber	Position Red
Flat mounting	Open end	400 mm	24V	3 LED's	IP67	098 203 990	098 221 990	098 230 990

Sidemarker light LED 9-33V

Sidemarker- and position light

E



4 LED without reflex reflector
Dimension: 70 x 40 x 24 mm
Bolt hole distance: 29 mm

*) 998 221 501 is without E-approval



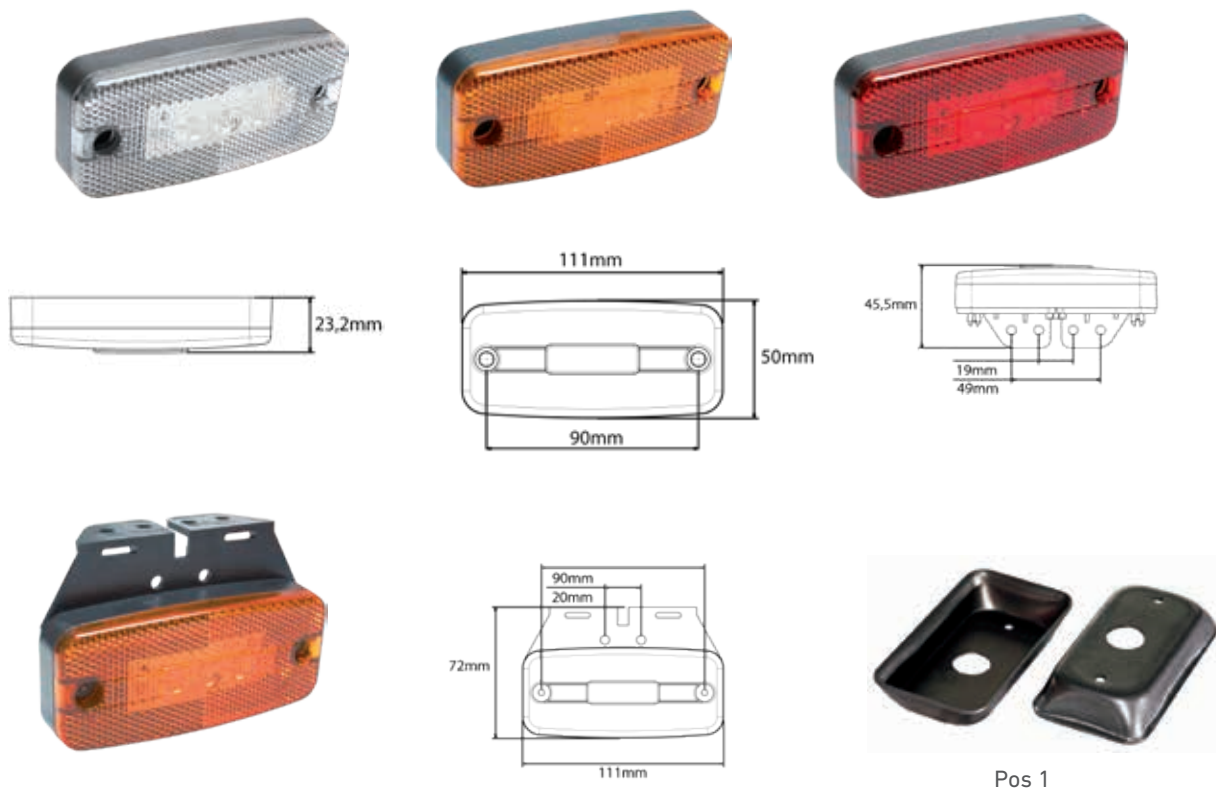
Functions

Mounting bracket	Connection	Cable length	Operation voltage	Light source	IP Rating	Position White	Sidemarker Amber	Position Red
Flat mounting	Open end	500 mm	9-33V	4 LED's	IP67	098 230 501	998 221 501 *	098 203 501
Flat mounting	Open end	5.000 mm	9-33V	4 LED's	IP67	098 230 505		

Sidemarker light LED 12/24V

Sidemarker- and position light

E SM1



3 LED without reflex reflector

Dimension without mounting bracket B x H x T: 111 x 50 x 23,2 mm

Bolt hole distance: 90 mm

**Functions**

Mounting bracket	Connection	Cable length	Operation voltage	Light source	IP Rating	Position White	Sidemarker Amber	Position Red
Flat mounting	Open end	500 mm	12/24V	3 LED's	IP67	098 230 960	098 221 940	098 200 950
Flat mounting	Open end	5.000 mm	12/24V	3 LED's	IP67	098 230 961	098 221 941	098 200 951
Flat mounting	Open end	10.000 mm	12/24V	3 LED's	IP67	098 230 964	098 221 944	098 200 954
Backwards 90°	Open end	500 mm	12/24V	3 LED's	IP67		098 221 942	
Backwards 90°	Open end	5.000 mm	12/24V	3 LED's	IP67		098 221 943	

Spare parts

Angle holder with rivet		098 291 949
Protective body, steel plate, untreated - suitable for flat mounting lights	Pos 1	098 291 907
Protective body, galvanized steel plate - suitable for flat mounting lights	Pos 1	098 291 906
Gasket		098 291 311

Sidemarker light LED 12/24V

Sidemarker- and position light

E SM1



3 LED without reflex reflector

Dimension with mounting bracket B x H x T: 130 x 32 x 7 mm

Bolt hole distance: 90 mm

Functions

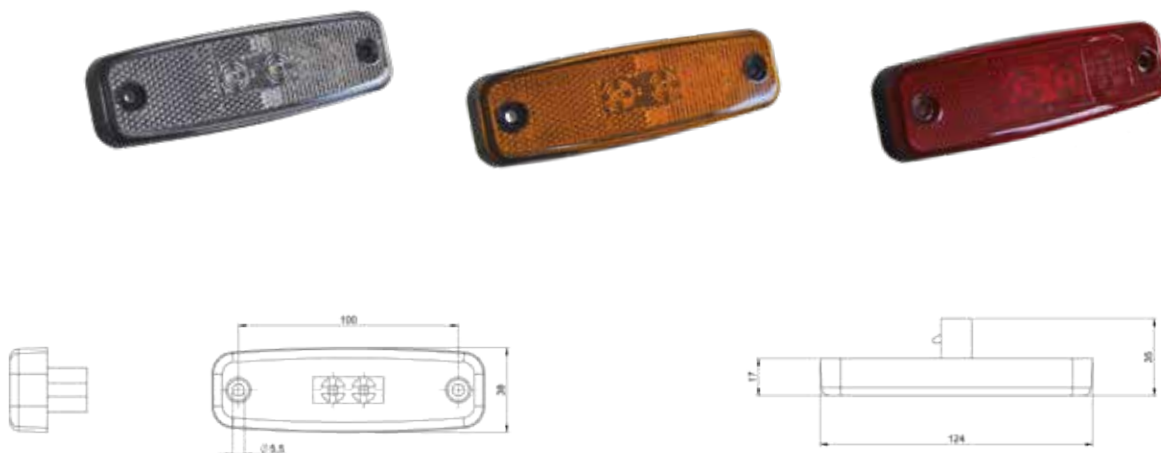
Surface mounting	Connection	Cable length	Operation voltage	Light source	IP Rating	Position White	Sidemarker Amber	Position Red
Horizontal	Super Seal socket Suitable for DAF 1697119	200 mm	12/24V	3 LED's	IP67		098 221 397	
Horizontal	Open end	500 mm	12/24V	3 LED's	IP67	098 231 873		098 201 873
Horizontal	Open end	1.500 mm	12/24V	3 LED's	IP67		098 221 874	
Horizontal	Open end	5.000 mm	12/24V	3 LED's	IP67	098 231 875	098 221 876	098 201 875
Horizontal	Open end	10.000 mm	12/24V	3 LED's	IP67		098 221 896	
Vertical	Open end	1.500 mm	12/24V	3 LED's	IP67		098 221 884	

Spare parts

Holder forwards 90°	Pos 1	098 291 278
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Sidemarker light LED 12/24V

Sidemarker- and position light



2 LED without reflex reflector

Dimension with mounting bracket B x H x T: 124 x 37 x 14 mm

Bolt hole distance: 100 mm

Functions

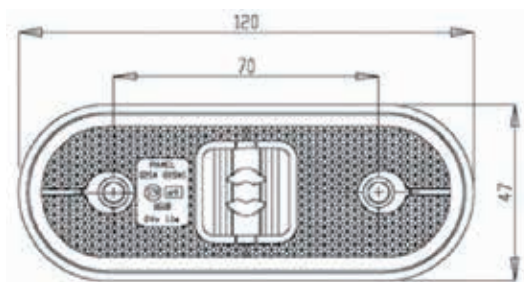
Surface mounting	Connection	Cable length	Operation voltage	Light source	IP Rating	Position White	Sidemarker Amber	Position Red
Horizontal	Super Seal socket	---	12/24V	2 LED's	IP67	098 230 790	098 221 790	098 200 790

Sidemarker light LED 12/24V - Sidemarker- and position light

(E) SM1



* 098 221 501, 098 221 502



2 LED with reflex reflector.
Dimension: 120 x 47 x 15 mm
Bolt hole distance: 70 mm
Bi-polarity

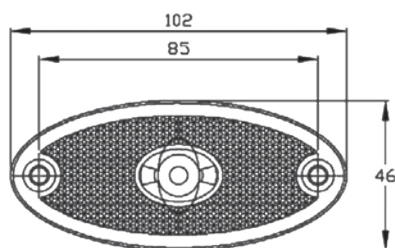
OBS: This article number is not for sale in Germany
Functions

Mounting bracket	Connection	Cable length	Operation voltage	Light source	Reflex reflector	IP Rating	Position White	Sidemarker Amber	Position Red
Flat	Click-In	500 mm	12/24V	2 LED's	✓	IP67	098 230 508	098 221 500	098 203 512
Flat	Click-In	1.500 mm	12/24V	2 LED's	✓	IP67	098 230 509	098 221 509	
Backwards 90°	Click-In	500 mm	12/24V	2 LED's	✓	IP67		098 221 507	
Backwards 90°	Click-In	1.500 mm	12/24V	2 LED's	✓	IP67		098 221 504	
Backwards 90°	Click-In	500 mm	12/24V	2 LED's	✓	IP67		098 221 501 *	
Backwards 90°	Click-In	1.500 mm	12/24V	2 LED's	✓	IP67		098 221 502 *	

Sidemarker light LED 12/24V

Sidemarker- and position light

E



1 LED with reflex reflector
 Dimension: 102 x 46 x 15 mm
 Bolt hole distance: 85 mm

Functions

Mounting bracket	Connection	Cable length	Operation voltage	Light source	Reflex reflector	IP Rating	Position White	Sidemarker Amber	Position Red
Straight	Click-In	500 mm	12/24V	1 LED	✓	IP67	098 230 523	098 221 515	098 203 521
Forwards 90°	Click-In	500 mm	12/24V	1 LED	✓	IP67		098 221 516	
Forwards 90°	Click-In	1.500 mm	12/24V	1 LED	✓	IP67		098 221 510	
Backwards 90°	Click-In	500 mm	12/24V	1 LED	✓	IP67		098 221 506	
Backwards 90°	Click-In	1.500 mm	12/24V	1 LED	✓	IP67		098 221 517	

Sidemarker & position light



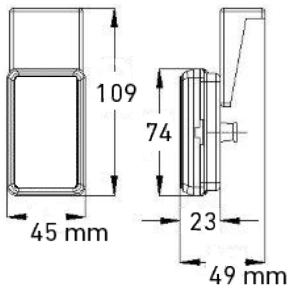
Pos 1



Pos 2



Pos 3



Black plastic base plate with reflex reflector
Dimension: 109 x 45 x 49 mm



Functions

Surface mounting	Connection	Operation voltage	Light source	IP Rating	Pos	Article No.
Horizontal / Vertical Without bracket	Cable lead through rubber grommet		LED	IP54	1	098 221 401
Horizontal / Vertical Without bracket	Cable lead through rubber grommet		LED	IP54	2	098 231 402
Vertical 90° bracket backwards	Cable lead through rubber grommet	5W Soffiten light SV8,5-5		IP54	3	098 231 412

Position light LED 12/24V

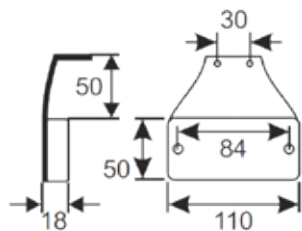
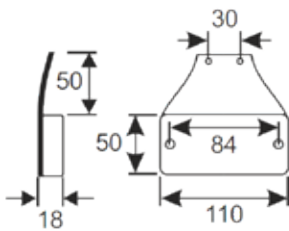
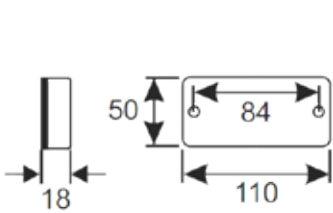


Changeable Lens

Functions							
Surface mounting	Connection	Cable length	Operation voltage	Light source	IP Rating	Suitable for	Sidemarker Amber
Horizontal 90° bracket backwards	Click-In	1.500 mm	12/24V	LED	IP54	81.25260-6104	098 230 675
Horizontal 90° bracket backwards	Click-In	1.500 mm	12/24V	LED	IP54	81.25260-6105	098 221 670

Sidemarker light LED 12/24V

E SM1



2 LED, with reflex reflector and flexible bracket
Dimension: 110 x 50 x 24 mm
Bolt hole distance: 85 mm
Bi-polarity

Functions

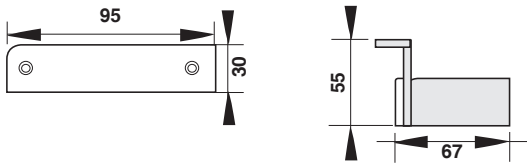
Mounting bracket	Connection	Cable length	Operation voltage	Light source	IP Rating	Suitable for	Sidemarker Amber
Flat	2 poled AMP plug	-	12/24V	2 LEDs	IP67	198520	098 221 850
Straight	2 poled AMP plug	-	12/24V	2 LEDs	IP67	198530	098 221 852
Backwards 90°	2 poled AMP plug	-	12/24V	2 LEDs	IP67	198540	098 221 854

Spare parts

Connection cable 2.000 mm with AMP socket	098 291 230
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Sidemarker light LED 24V

E SM1



1 LED, with reflex reflector and with forwards 90° mounting bracket
Dimension without mounting bracket B x H x T: 95 x 30 mm
Bolt hole distance: 90 mm

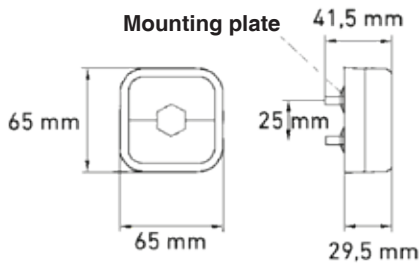
Functions

Surface mounting	Connection	Cable length	Operation voltage	Light source	IP Rating	Sidemarker Amber
Horizontal/Vertical	Rubber grommet	--	24V	1 LED	IP67	098 221 397
Horizontal/Vertical	Click-In	400 mm	24V	1 LED	IP67	098 221 216

Sidemarker light LED 24V

MAN L2000 2000>, F2000 2000>, TA-A 1999>

E SM1



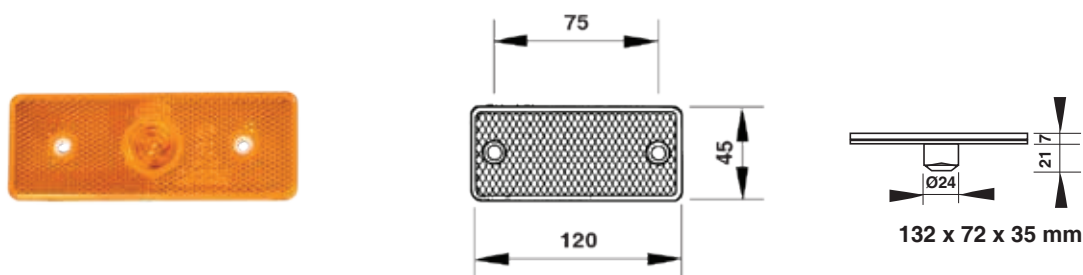
Black plastic base plate
LED without reflex reflector
Dimension B x H x T: 65 x 65 x 29,5
Bolt hole distance: 25 mm

Functions

Surface mounting	Connection	Cable length	Operation voltage	Light source	IP Rating	Suitable for	Sidemarker Amber
Horizontal	AMP socket and polyflex	1.200 mm	24V	LED	IP54	81.25260-6104	098 221 704
Horizontal	AMP plug and polyflex	1,450 mm	24V	LED	IP54	81.25260-6105	098 221 705

Sidemarker light LED 24V - Mercedes-Benz Actros, Evobus Setra

E SM1



4 LED without reflex reflector
 Dimension B x H x T: 120 x 45 x 35 mm
 Bolt hole distance: 75 mm
 Mounting depth: 21 mm

**Functions**

Surface mounting	Connection	Cable length	Operation voltage	Light source	IP Rating	Suitable for	Sidemarker Amber
Horizontal	Open end	200 mm	12/24V	4 LED	IP67	3500-5615-30 3500-5615-2	098 221 354

Sidemarker light LED 24V - MAN Bus / Mercedes

E SM1



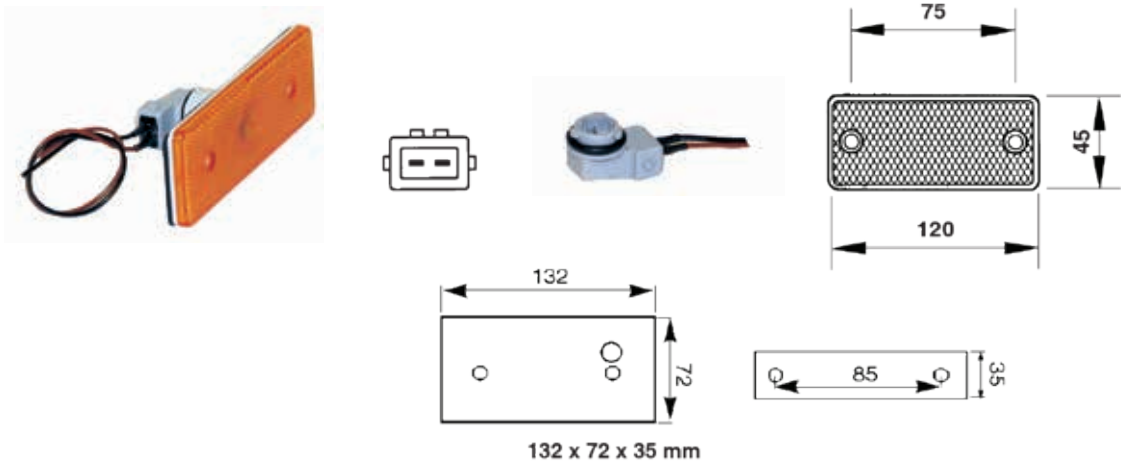
With Reflex reflector
 Dimension: 120 x 45 mm
 Bolt hole distance: 75 mm

Functions

Surface mounting	Connection	Cable length	Operation voltage	Light source	IP Rating	Suitable for	Sidemarker Amber
Horizontal	2-poled AMP plug	600 mm	24V	LED	IP54	81 25260 6095	910 221 826
Horizontal	2-poled AMP plug	600 mm	24V	LED	IP54	A 000 544 49 11	910 221 827

Sidemarker light bulb 12/24V - MAN bus

E SM1



Plastic housing with Bulb holder unit for wedge base bulb and sealed cable
With reflex reflector
Dimension: 120 x 45 mm
Bolt hole distance: 75 mm
Build-in depth: 40 mm



Functions

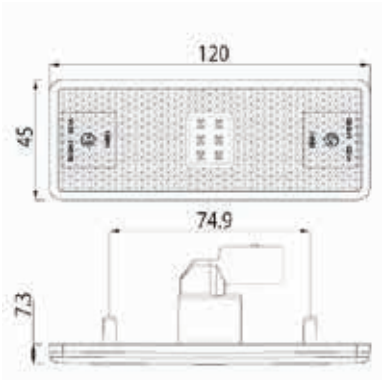
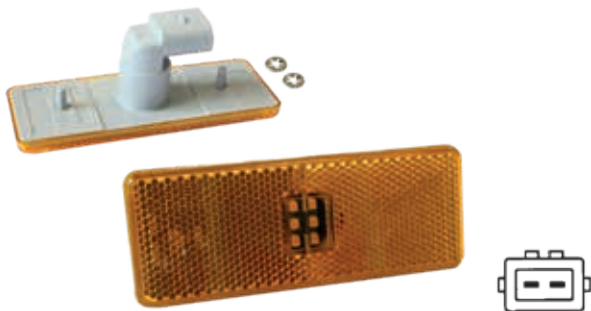
Build-in	Connection	Cable length	Light	Light source	IP Rating	Suitable for	Sidemarker Amber
Horizontal	Open end	200 mm	Without bulb	Bulb	IP54	81 25260 6077	098 221 350

Spare parts

Gasket	098 291 356
Sealed bulb holder units with 200 mm cable	098 291 357
Bulb holder units	098 291 358

Sidemarker light LED 9-33V - Mercedes Benz Actros

E SM1



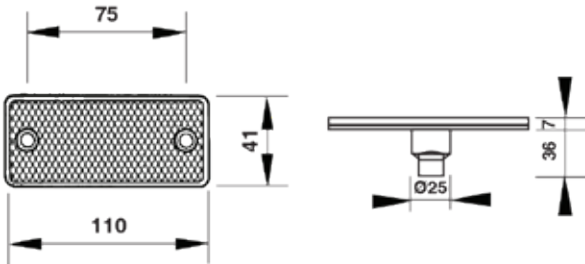
Plastic housing with "clips"
6 LED without reflex reflector
Splash water protected with sealed cableexit
Dimension: 120 x 45 x 9 mm
Bolt hole distance: 75 mm

Functions

Surface mounting	Connection	Cable length	Operation voltage	Light source	IP Rating	Suitable for	Sidemarker Amber
Horizontal/ Vertical	Open end	1000 mm	9-33V	6 LED	IP67	000 544 72 11 000 544 54 11	098 221 353
Horizontal/ Vertical	2-poled AMP plug		9-33V	6 LED	IP67	000 544 52 11 375 544 02 11	098 221 357

Sidemarker light LED 24V - Mercedes Benz Actros SKL Serie

E SM1



4 LED without reflex reflector
Sealed cableexit
Dimension: 110 x 41 x 9 mm
Bolt hole distance: 75 mm

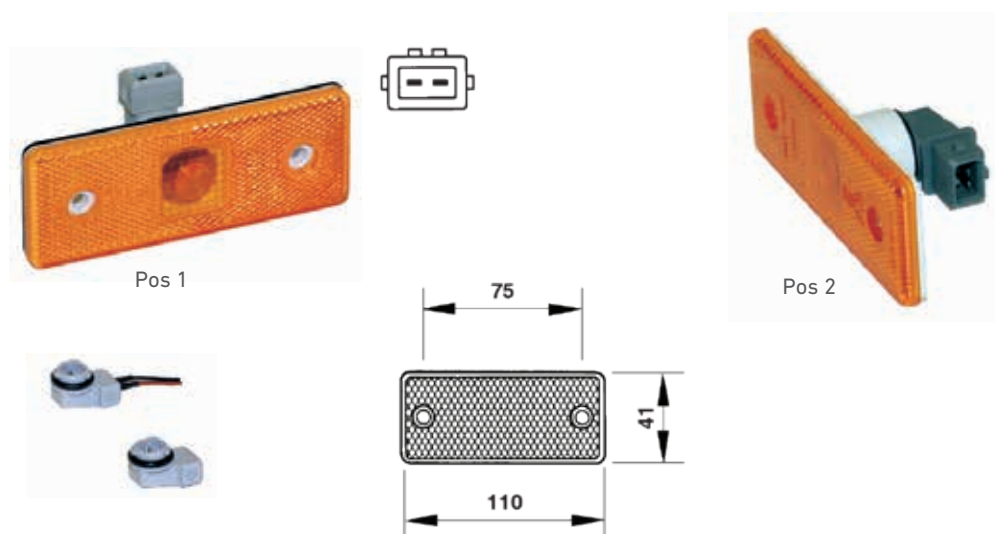


Functions

Surface mounting	Connection	Cable length	Operation voltage	Light source	IP Rating	Suitable for	Sidemarker Amber
Horizontal/ Vertical	Open end	200 mm	24V	4 LED	IP67		098 221 222

Sidemarker light bulb 24V - Mercedes Benz Actros

(E) SM1



With reflex reflector and 24V/3W bulb mounted

Plastic housing with gasket and vertical for wedge base lamp with built in 2 pole male connector

Dimension: 110 x 42 mm

Mounting depth: 36 mm

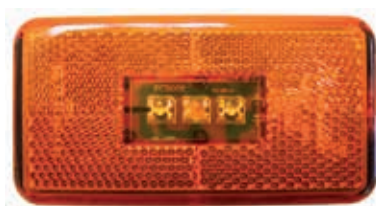
Bolt hole distance: 75 mm

Functions

Bulb holders-Units	Connection	Operation voltage	Light source	IP Rating	Suitable for	Pos	Sidemarker Amber
Vertical	2 poled AMP-JPT plug	24V	Bulb	IP54	000 544 37 11	1	098 221 220
Horizontal	2 poled AMP-JPT plug	24V	Bulb	IP54	000 544 41 11	2	098 221 225

Spare parts

Bulb holder W2,1x9,5d plastic	098 291 358
Bulb holder W2,1x9,5d plastic NF with Cable	098 291 357

Sidemarker light LED 24V - Scania R/5

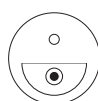
Plastic housing with 3 LED and reflex reflector
Dimension: 110 x 55 mm

Functions

Mounting	Connection	Cable length	Operation voltage	Light source	IP Rating	Suitable for	Sidemarker Amber
Horizontal / Vertical	2 poled AMP plug	2050 mm	24V	4 LED	IP67	0 173 74 13 0 144 38 84 0 144 6359 2 000 390 2 052 119 2 080 828	098 221 230

Spare parts

Adapter cable 300 mm with 2 poled plug	098 291 235
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Sidemarker light LED 24V - Scania 4

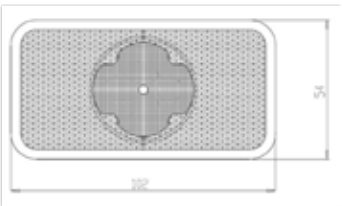
Plastic housing with metal clip - for horizontal build-in, splash water proof
4 LED's without reflex reflector
Dimension: 104 x 54 mm

**Functions**

Build-in	Connection	Cable length	Build-in depth	Operation voltage	Light source	IP Rating	Suitable for	Sidemarker Amber
Horizontal	Open end	2050 mm	35 mm	24V	4 LED's	IP54	OE: 1471599	098 221 245

Sidemarker light LED 24V - Volvo

E SM1



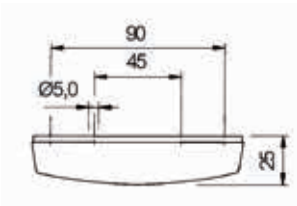
Plastic housing with integrated AMP plug, 4 LED's without reflex reflector
Build-in depth 35 mm

Functions

Surface mounting	Connection	Operation voltage	Light source	IP Rating	Suitable for	Dimension	Sidemarker Amber
Horizontal / Vertical	Integrered AMP Plug	24V	4 LED's	IP67	2039 8660 2078 9440	104 x 54 mm	098 221 263

Sidemarker light bulb 12/24V

E SM1



With reflex reflector
Bolt hole distance: 45 mm
Delivered without bulb



Functions

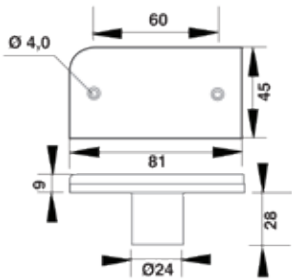
Mounting bracket	Connection	Operation voltage	Light source	IP Rating	Dimension	Sidemarker Amber
Horizontal / Vertical	Flat-plug connections 6,3 mm and cable lead through rubber grommet	12/24V	Bulb	IP54	112 x 42 x 25 mm	098 221 293

Spare parts

Mounting bracket backwards 90°	098 290 299
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Sidemarker light bulb

E SM1



With reflex reflector and with Bulb holder for 3W wedge base lamp
Dimension: 81 x 45 x 9 mm
Bolt hole distance: 60 mm
Delivered without bulb



Functions

Connection	Operation voltage	Light source	IP Rating	Suitable for	Sidemarker Amber
Flat plug connection 6,3 mm and cable lead through rubber grommet	12/24V	Bulb	IP55		098 221 204

Spare parts

Bulb holder with 6,3 mm flat plug	098 290 299
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Sidemarker light LED 24V - Setra Bus

E SM1



3 LED
Dimension: 34 x 31 mm

Functions

Build-in	Connection	Cable length	Operation voltage	Light source	IP Rating	Suitable for	Sidemarker Amber
Horizontal	2 poled AMP plug	100 mm	24V	3 LED's	IP67		098 221 358

LED Position light 12/24V

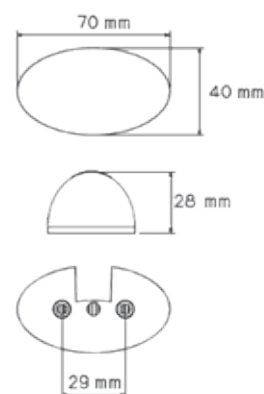


Dimension: Ø30,4 x 18,6 mm

Functions

Surface mounting	Operation voltage	IP Rating	Connection	Cable length	Light source	Position front White	Position back Red
Horizontal / Vertical	12/24V	IP69	Click-in	500 mm	1 LED	098 230 105	098 204 105
Horizontal / Vertical	12/24V	IP69	Click-in	1.500 mm	1 LED	098 230 115	098 204 115
Horizontal / Vertical	12/24V	IP69	Click-in	3.500 mm	1 LED	098 230 135	098 204 135

Position light front and rear, LED 12/24V



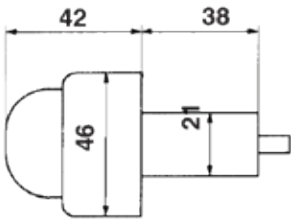
With 2 LED's and clear optics
Dimension: 70 x 40 x 28 mm
Bolt hole distance: 29mm



Functions

Surface mounting	Connection	Cable length	Operation voltage	Light source	IP Rating	Position front White	Position back Red
Horizontal	Open end	170 mm	12/24V	2 LED's	IP67	098 230 226	098 203 236

Position light front, bulb



Black rubber housing

Functions

Socket version	Operation voltage	Dimension	IP Rating	Suitable for	Position front White
1 poled BA15s	12/24V	Ø46 x 42 / 80 mm	IP54	50/04/10	098 239 991

Spare parts

Lens	098 299 993
Bulb holder 1 poled BA15s	098 299 996
Bulb holder 2 poled BA15d	098 299 997

Position light front, bulb

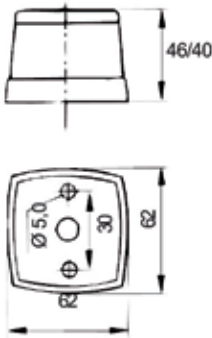
E



Pos 1



Pos 2



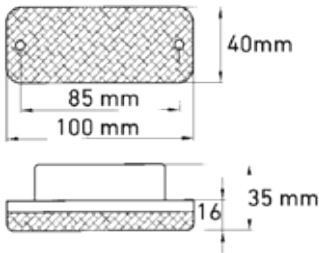
With or without reflex reflector
Flat plug connection
Dimension: 62 x 62 x 46 mm
Bolt hole distance: 30 mm



Functions

Surface mounting	Operation voltage	Connection	Reflex reflector	IP Rating	Suitable for	Pos	Position back White
Horizontal	12/24V	Cable lead through rubber grommet	✓	IP54	22.03.090	1	098 230 800
Horizontal	12/24V	Cable lead through rubber grommet		IP54	22.02.090	2	098 230 805

Position light front, bulb - Mercedes Benz



Position light, for Build-in,
Black plastic housing with rubber gasket, flat-plug connections
Bolt hole distance: 83 mm

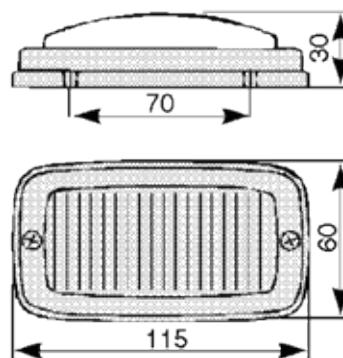


Functions

Build-in	Operation voltage	Connection	Dimension	IP rating	Suitable for	Position back White
Horizontal	12/24V	Cable lead through rubber grommet	100 x 40 x 16 mm	IP54	22.03.090 140 000 1833 A140 000 1833	098 242 901

Position light - front and rear, bulb 12/24V

E



Stainless steel rim. Steel base plate with rubber gasket, polished rim
 Delivered with connection cable
 Bolt hole distance: 70 mm



Functions

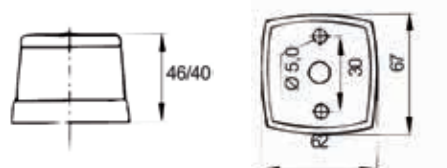
Surface mounting	IP Rating	Operation voltage	Connection	Dimension	Light source	Position front White
Horizontal or vertical	IP67	12/24V	Cable lead through rubber grommet	115 x 60 x 30 mm	Bulb	098 231 459

Spare parts

Connection cable	098 291 455
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Positions light rear, Bulb 12/24V

E



Tail light, red, without reflex reflector
 Black plastic base plate
 Bolt hole distance: 30 mm



Functionsen

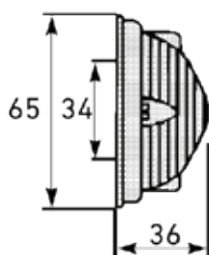
Surface mounting	IP Rating	Operation voltage	Connection	Dimension	Light source	Suitable for	Position back Red
Backwards	IP54	12/24V	Flat-plug connection / cable lead through rubber grommet	62 x 67 x 46 mm	Bulb	2 SA 003 057-021	098 200 975

Position light - front and rear, bulb 12/24V

E



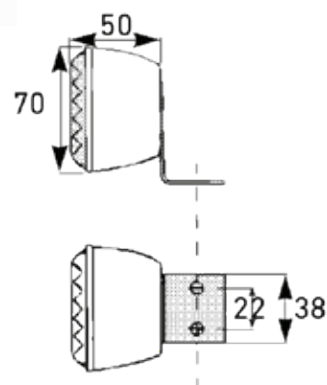
Pos 1



Steel base plate with rubber gasket
Stainless steel rim
Bolt hole distance: 34 mm



Pos 2



Black plastic housing
Delivered with connection cable
Bolt hole distance: 22 mm

Functions

Surface mounting	Operation voltage	Connection	Dimension	Light source	Suitable for	Pos	Position back White	Position back Red
Backwards	12/24V		Ø65 x 36 mm	Bulb	20.022-001	1	098 234 491	098 204 492
Backwards	12/24V	150 mm cable	Ø70 x 50 mm	Bulb		2		098 202 001

Spare parts

Lens for 098 204 492	098 294 498
Lens for 098 234 491	098 294 499
Lens for 098 202 001	098 292 002
Connection cable	098 291 455

Position light - front and rear, bulb 12/24V

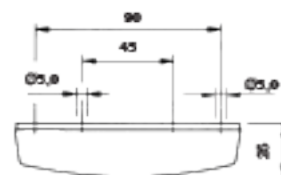

Chromed brass base plate with rubber gasket
Glass holder in chromed brass
Without reflex reflector
Bolt hole distance: 16 mm
IP67 rating


Functions

Surface mounting	Operation voltage	Connection	Dimension	Light source	IP Rating	Position front White	Position back Red
Horizontal or Vertical	12/24V	Cable lead through rubber grommet	65 x 35 x 25 mm	Bulb	IP54	098 231 551	098 201 552

Spare parts

Lens for 098 231 551	098 291 559
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Position light - front and rear, bulb 12/24V


Black plastic back plate
Flat-plug connections
With reflex reflector
Bolt hole distance: 45 mm


Functions

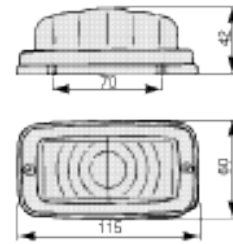
Surface mounting	Operation voltage	Connection	Dimension	Light source	IP rating	Position front White	Position back Red
Horizontal or vertical	12/24V	Cable lead through rubber grommet	112 x 42 x 25 mm	Bulb	IP54	098 230 297	098 200 291

Spare parts

Mounting bracket, angled	098 290 299
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Position light - front and rear, bulb 12/24V

E



Steel base plate with rubber gasket
Polished or black lacquered stainless steel rim
Bolt hole distance: 70 mm

Functions

Surface mounting	Operation voltage	Connection	Dimension	Light source	IP Rating	Position front White	Position back Red
Horizontal or Vertical	12/24V	Delivered with connection cable	115 x 60 x 42 mm	Bulb	IP54	098 231 452	098 201 454

Spare parts

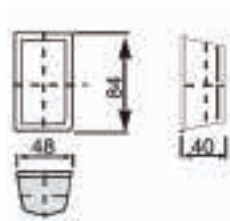
Lens for 098 201 454	098 291 458
Lens for 098 231 452	098 291 459
Connection cable	098 291 455

Position light - rear bulb 12/24V

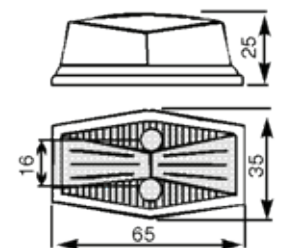
E



Pos 1



Pos 2



Bolt hole distance: 60 mm

Chromed brass base plate with rubber gasket
Chromed brass rim
Bolt hole distance: 17 mm



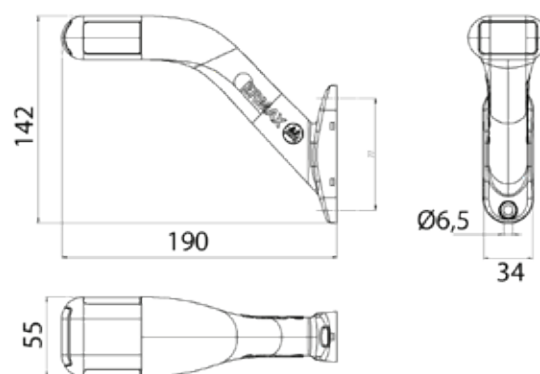
Functions

Surface mounting	Operation voltage	Connection	Dimension	Bolt hole Distance	IP Rating	Pos	Position back Red
Horizontal or Vertical	12/24V	Cable lead through rubber grommet	84 x 48 x 40 mm	60 mm	IP54	1	098 208 402
Horizontal or Vertical	12/24V	Cable lead through rubber grommet	66 x 35 x 29 mm	17 mm	IP54	2	098 201 552



OUTER END MARKER LIGHTS

Outer end marker light LED



Angled 45° with clear glass and fixed base mounting
Bolt hole distance: 77 mm
Bi-polarity

Functions

Light source	Operation voltage	IP Rating	Connection	Cable length	Light colour	Left ← Right →	Article No.
LED	12/24V	IP67	Click-In	1.500 mm	Red / white / amber	←	098 241 422
LED	12/24V	IP67	Click-In	1.500 mm	Red / white / amber	→	098 241 423
LED	12/24V	IP67	2 poled Super Seal socket	1.500 mm	Red / white / amber	←	098 241 425
LED	12/24V	IP67	2 poled Super Seal socket	1.500 mm	Red / white / amber	→	098 241 426
LED	12/24V	IP67	2 poled Super Seal plug	300 mm	Red / white / amber	←	098 241 448
LED	12/24V	IP67	2 poled Super Seal plug	300 mm	Red / white / amber	→	098 241 449
LED	12/24V	IP67	Open end	1.500 mm	Red / white / amber	←	098 241 427
LED	12/24V	IP67	Open end	1.500 mm	Red / white / amber	→	098 241 428
LED	12/24V	IP67	Open end	5.000 mm	Red / white / amber	←	098 241 429
LED	12/24V	IP67	Open end	5.000 mm	Red / white / amber	→	098 241 430

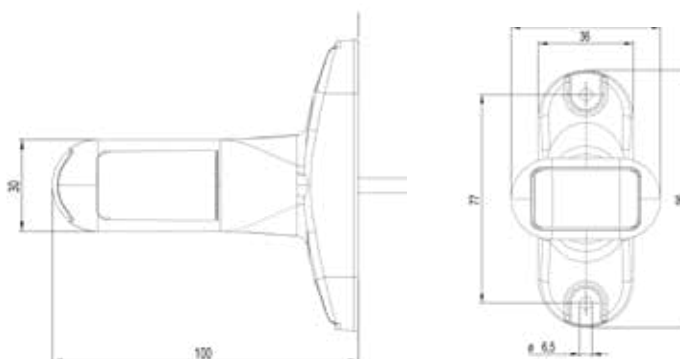
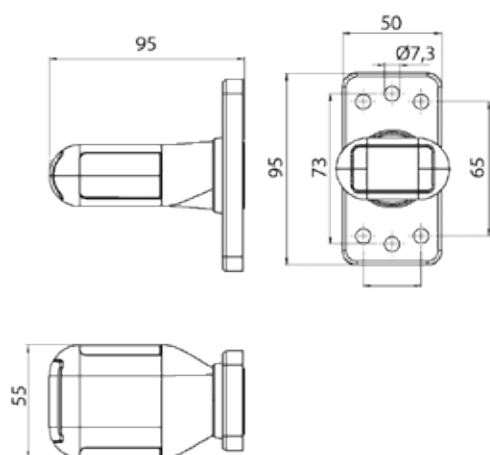
Outer end marker light LED



Pos.1 - Swiveling mounting foot



Pos.2 - Fixed mounting foot



Short Straight variant with swiveling or fixed base mounting and clear glass

360° Swiveling

Dimension: 100 x 56 x 96 mm

Bolt hole distance: 65 mm

Bi-polarity

Functions

Light source	Operation voltage	IP Rating	Left ← Right →	Connection	Cable length	Light colour	Pos	Article No.
LED	12/24V	IP67	← →	Open end	1.500 mm	Red / white / amber	1	098 241 415
LED	12/24V	IP67	← →	Open end	5.000 mm	Red / white / amber	1	098 241 417
LED	12/24V	IP67	← →	2 poled Super Seal socket	500 mm	Red / white / amber	2	098 241 205
LED	12/24V	IP67	← →	2 poled Super Seal socket	1.500 mm	Red / white / amber	2	098 241 215
LED	12/24V	IP67	← →	Click-In	1.500 mm	Red / white / amber	2	098 241 211
LED	12/24V	IP67	← →	Open end	1.500 mm	Red / white / amber	2	098 241 216
LED	12/24V	IP67	← →	Open end	5.000 mm	Red / white / amber	2	098 241 217

Outer end marker light LED

(E)



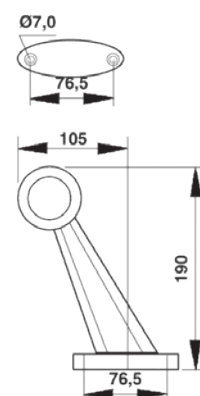
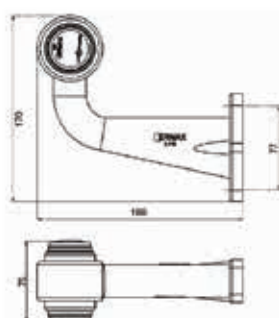
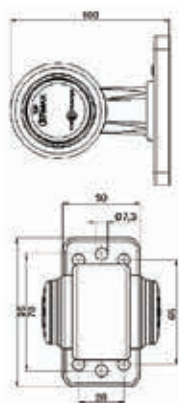
Pos 1



Pos 2



Pos 3



3 variants

2 impact resistant units pro LED

Bolt hole distance Pos 1: 75 mm

Bolt hole distance Pos 2: 76,5 mm

Bolt hole distance Pos 3: 76,5 mm

Functions

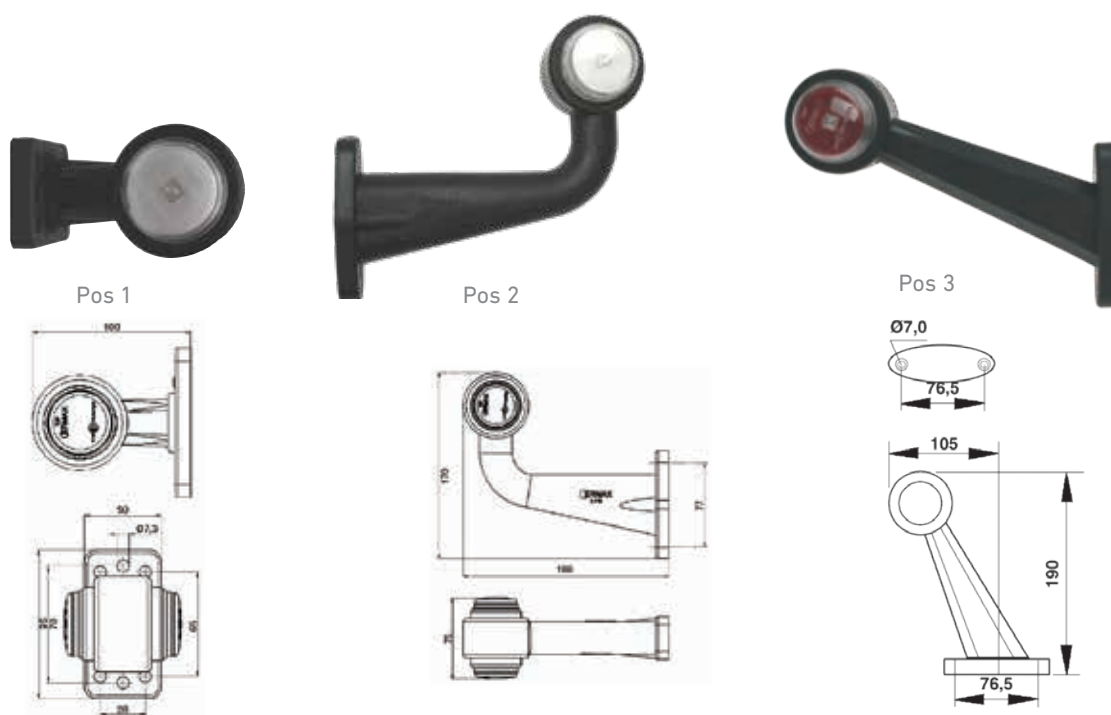
Light source	Operation voltage	IP Rating	Left ← Right →	Connection	Cable length	Light colour	Pos	Article No.
LED	24V	IP67	← →	Open end	900 mm	Red / white	1	098 241 014
LED	24V	IP67	← →	Open end	900 mm	Red / white	2	098 241 024
LED	24V	IP67	← →	Open end	900 mm	Red / white	3	098 241 084

Spare parts

Lens Black	098 291 124
Rubber gasket inclined, rubber for 098 241 014	098 291 119
LED Units, red	098 291 015
LED Units, white	098 291 017

Outer end marker light LED

(E)



3 variants

2 impact resistant units pro LED

Bolt hole distance Pos 1: 75 mm

Bolt hole distance Pos 2: 76,5 mm

Functions

Light source	Operation voltage	IP Rating	Left ← Right →	Connection	Cable length	Light colour	Pos	Article No.
LED	12/24V	IP67	← →	Open end	1.500 mm	Red / white	1	098 241 016
LED	12/24V	IP67	← →	Open end	5.000 mm	Red / white	1	098 241 616
LED	12/24V	IP67	← →	2 poled Super Seal socket	500 mm	Red / white	1	098 241 816
LED	12/24V	IP67	← →	Open end	1.500 mm	Red / white	2	098 241 026
LED	12/24V	IP67	← →	Open end	5.000 mm	Red / white	2	098 241 626
LED	12/24V	IP67	← →	Click-In	1.500 mm	Red / white	2	098 241 726
LED	12/24V	IP67	← →	2 poled Super Seal socket	500 mm	Red / white	2	098 241 826
LED	12/24V	IP67	← →	Open end	1.500 mm	Red / white	3	098 241 086
LED	12/24V	IP67	← →	Open end	5.000 mm	Red / white	3	098 241 686
LED	12/24V	IP67	← →	2 poled Super Seal socket	500 mm	Red / white	3	098 241 886

Spare parts

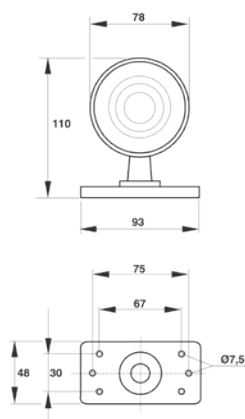
Lens black	098 291 124
Rubber gasket inclined, Rubber for 098 241 016	098 291 119
LED Units, red - with 1.250 mm cable	098 291 012
LED Units, red - with 5.000 mm cable	098 291 022
LED Units, clear - with 1.250 mm cable	098 291 016
LED Units, clear - with 5.000 mm cable	098 291 026
LED Units, yellow - with 1.250 mm cable	098 291 018

Outer end marker light LED

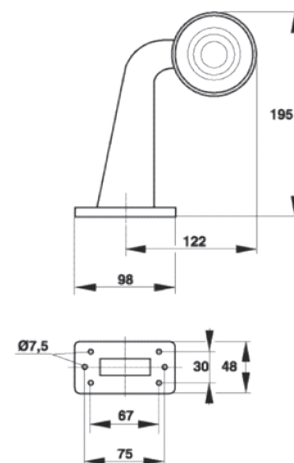
(E)



Pos 1



Pos 2



2 Variants - short 360° swiveling, angled 45°
2 impact resistant units with 6 pro LED units

Functions

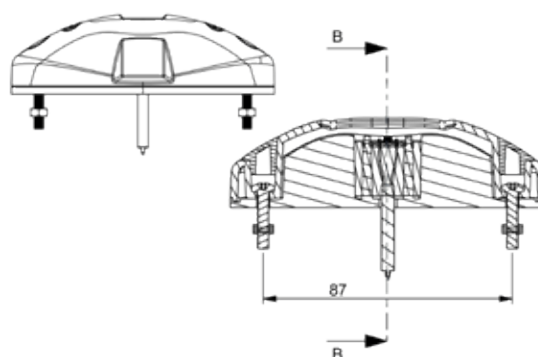
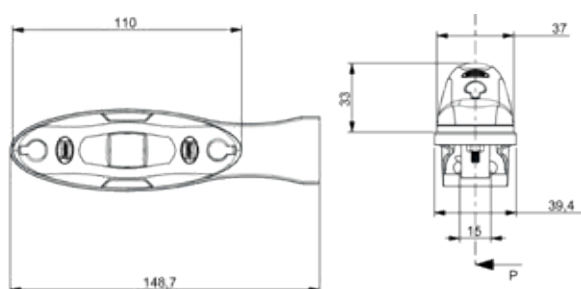
Light source	IP Rating	Operation voltage	Connection	Cable length	Light colour	Left ← Right →	Pos	Article No.
LED	67	12/24V	Open end	500 mm	Red / white	← →	1	098 241 065
LED	67	12/24V	Open end	1500 mm	Red / white	← →	2	098 241 075

Spare parts

LED units, red	098 291 062
LED units, white	098 291 064

Outer end marker light LED

(E)



With or without flexible rubber bracket
 Lens in PMMA
 Bolt hole distance: 87 mm

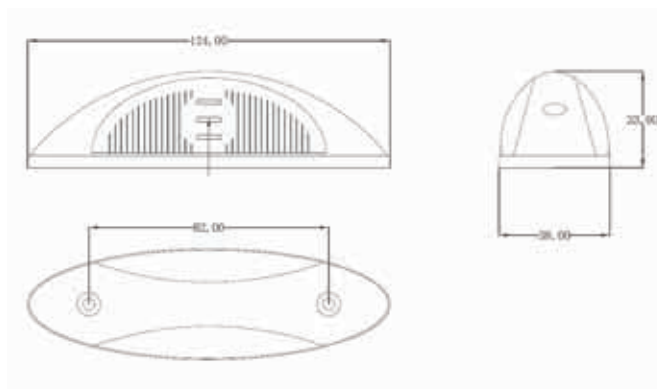
Functions

Light source	Operation voltage	IP Rating	Surface mounting	Connection	Cable length	Lens colour	Left ← Right →	Pos	Article No.
LED	10-30V	IP67	Flat mounting	Open end	1.000 mm	Red / white	← →	1	098 241 310
LED	10-30V	IP67	Straight	Open end	1.000 mm	Red / white	← →	2	098 241 320
LED	10-30V	IP67	Backwards 90°	Open end	1.000 mm	Red / white	← →	3	098 241 330
LED	10-30V	IP67	Flat mounting	Open end	1.000 mm	Red / white / amber	← →	1	098 241 312
LED	10-30V	IP67	Straight	Open end	1.000 mm	Red / white / amber	← →	2	098 241 322
LED	10-30V	IP67	Backwards 90°	Open end	1.000 mm	Red / white / amber	← →	3	098 241 332

Accessories

Super Seal plug 2 poled	099 110 019
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Outer end marker light LED



Lens in PMMA
Bolt hole distance: 82 mm

Functions

Light source	Operation voltage	IP Rating	Surface mounting	Connection	Cable length	Lens colour	Left ← Right →	Article No.
LED	10-30V	IP67	Flat mounting	Open end	500 mm	Red /white	← →	098 241 340

Outer end marker light LED

ECE 7-02



Functions

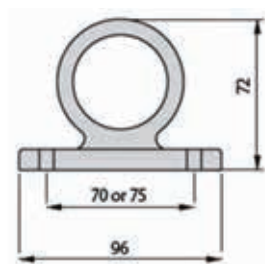
Light source LED	IP Rating	Operation voltage	Connection	Cable length	Light colour	Dimension	Article No.
2 x 4 dior	IP67	24V	Open end	200 mm	Red / white	L 94 x H 81 mm	098 241 492

Spare parts

LED units, Red	098 291 498
LED units, white	098 291 499

Outer end marker light LED

(E)

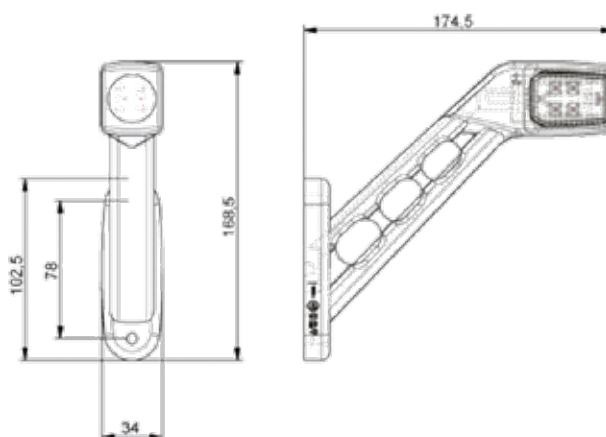


2 impact resistant and waterproof LED units
Mounted in a black rubber housing

Functions

Light source LED	IP Rating	Operation voltage	Connection	Cable length	Light colour	Dimension	Article No.
2 x 3 dior	IP69K	12-24 V	Open end	300 mm	Red / white	L 96 x H 72 mm	098 241 500

Outer end marker light LED



Bolt hole distance: 78 mm
Reversed polarity protected

Functions

LED LED	IP Rating	Operation voltage	Connection	Cable length	Light colour	Dimension	Left ← Right →	Article No.
6 LED's	IP67	24V	Open end	1.000 mm	Red/white/amber	174,5 x 168,5 mm	← →	098 241 455
6 LED's	IP67	24V	Open end	1.000 mm	Red/white/amber	174,5 x 168,5 mm	← →	098 241 456

Outer end marker light LED

(E)



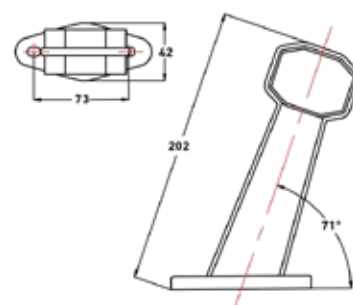
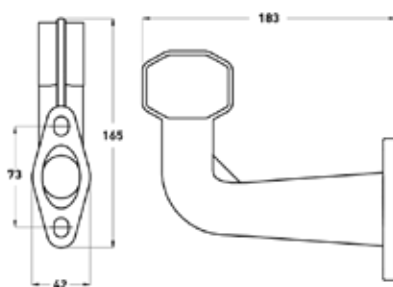
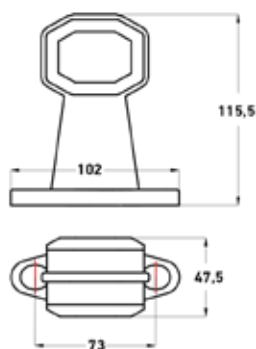
Pos 1 - Short straight



Pos 2 - Angled



Pos 3 - Inclined



Black rubber housing
Variable bolt hole distance: 68 -75 mm

Functions

Light source	Operation voltage	Connection	Cable length	Light colour	Dimension	Left ← Right →	Pos	Article No.
LED	24V	Click-in	500 mm	Red / white	H 115 mm x 102 mm	← →	1	098 241 267
LED	24V	Click-in	500 mm	Red / white	183 x 165 x 47,5 mm	←	2	098 241 261
LED	24V	Click-in	500 mm	Red / white	183 x 165 x 47,5 mm	→	2	098 241 262
LED	24V	Click-in	500 mm	Red / white	H 202 x 47,5 mm	←	3	098 241 264
LED	24V	Click-in	500 mm	Red / white	H 202 x 47,5 mm	→	3	098 241 265

Outer end marker light LED

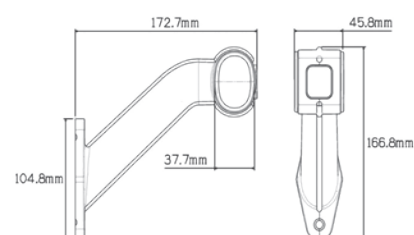
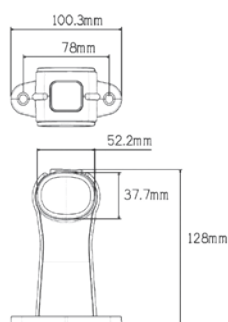
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Pos 1



Pos 2



Impact resistant LED units with 6 LED, mounted in a black flexible rubber housing
Sidemarker light integrated with 1 led
Bolt hole distance: 78 mm

Functions

Light source	IP Rating	Operation voltage	Connection	Cable length	Light colour	Dimension	Left ← Right →	Pos	Article No.
9 LED's	IP67	12V	Open end	500 mm	Red/white/ yellow	128 x 100,3 mm	← →	1	098 241 030
9 LED's	IP67	24V	Open end	500 mm	Red/white/ yellow	128 x 100,3 mm	← →	1	098 241 031
9 LED's	IP67	24V	Open end	5000 mm	Red/white/ yellow	128 x 100,3 mm	← →	1	098 241 033
9 LED's	IP67	12 V	Open end	500 mm	Red/white/ yellow	167 x 173 mm	←	2	098 241 034
9 LED's	IP67	12 V	Open end	500 mm	Red/white/ yellow	167 x 173 mm	→	2	098 241 035
9 LED's	IP67	24V	Open end	500 mm	Red/white/ yellow	167 x 173 mm	←	2	098 241 036
9 LED's	IP67	24V	Open end	500 mm	Red/white/ yellow	167 x 173 mm	→	2	098 241 037

Outer end marker light bulb 24V



Functions

Light source	IP Rating	Operation voltage	Connection	Cable length	Lens	Left ← Right →	Pos	Article No.
Bulb 24V	IP54	24V	Open end	3.500 mm	Red / white	← →	1	098 241 959
Bulb 24V	IP54	24V	Click-in	1.500 mm	Red / white	← →	1	098 241 954
Bulb 24V	IP54	24V	Super Seal socket	500 mm	Red / white	← →	1	098 241 956
Bulb 24V	IP54	24V	Open end	3.500 mm	Red / white	← →	2	098 241 989
Bulb 24V	IP54	24V	Click-in	1.500 mm	Red / white	← →	2	098 241 987
Bulb 24V	IP54	24V	Super Seal socket	500 mm	Red / white	← →	2	098 241 986

Spare parts

Lens Ø47 mm - White		3	098 291 129
Lens Ø47 mm - Red		3	098 291 128
Lens Ø47 mm - Amber		3	098 291 127
Lens Ø47 mm - Black		3	098 291 124
Bulb 24V 10W HD - BA15s			091 624 072
Bulb holder Ø17 mm - BA15s			098 291 126

Outer end marker light bulb 12/24V

(E)



Functions

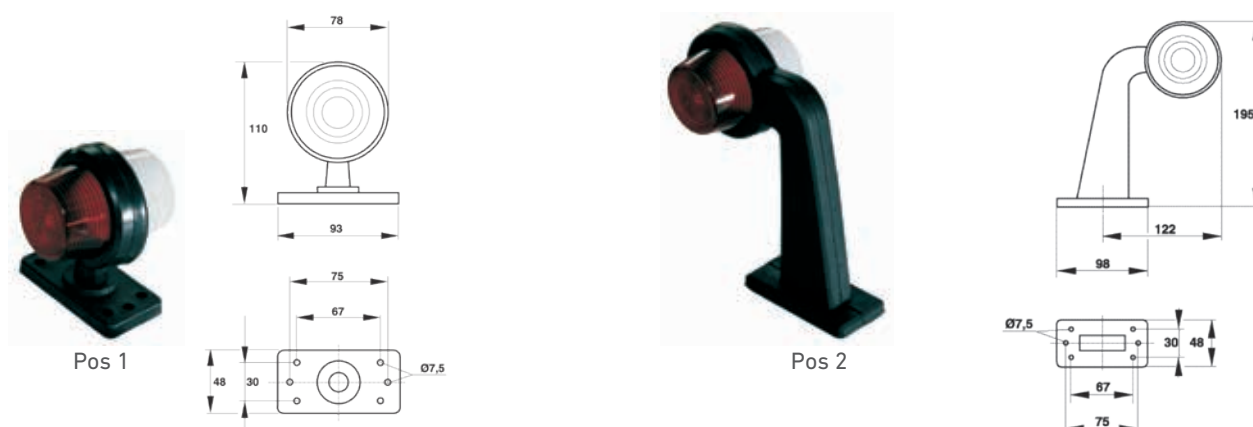
Light source	IP Rating	Operation voltage	Connection	Cable length	Lens	Left ← Right →	Pos	Article No.
Bulb	IP54	-	Open end	300 mm	Red / white	←→	1 (Swiveling foot)	098 241 110
Bulb	IP54	12V	Open end	300 mm	Red / white	←→	1 (Swiveling foot)	098 241 112
Bulb	IP54	24 V	Open end	300 mm	Red / white	←→	1 (Swiveling foot)	098 241 114
Bulb	IP54	-	Open end	300 mm	Red / white	←→	2	098 241 120
Bulb	IP54	12 V	Open end	300 mm	Red / white	←→	2	098 241 122
Bulb	IP54	24V	Open end	300 mm	Red / white	←→	2	098 241 124
Bulb	IP54	-	Open end	300 mm	Red / white	←→	3	098 241 180
Bulb	IP54	12 V	Open end	300 mm	Red / white	←→	3	098 241 182
Bulb	IP54	24V	Open end	300 mm	Red / white	←→	3	098 241 184

Spare parts

Lens Ø47 mm - White		3	098 291 129
Lens Ø47 mm - Red		3	098 291 128
Lens Ø47 mm - Amber		3	098 291 127
Lens Ø47 mm - Black		3	098 291 124
Rubber gasket inclined			098 291 119
Bulb holder BA 15s			098 291 126
Bulb holder with cable			098 291 125

Outer end marker light, bulb version

(E)



Black rubber housing with reinforced base plate
BA15s Bulb holder for 2 Bulb, screw connection

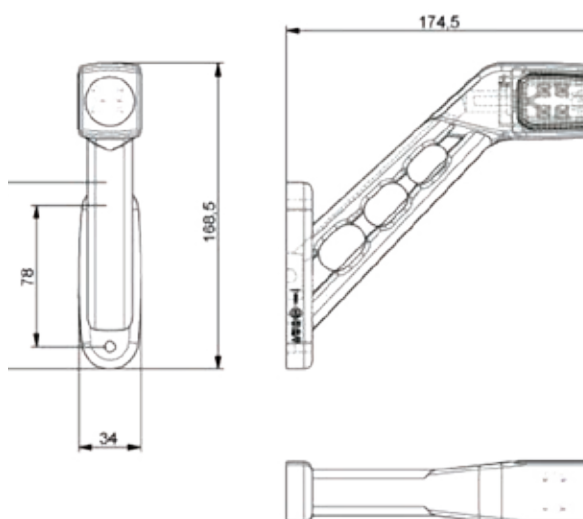
Functions

Light source	IP Rating	Operation voltage	Connection	Lens	Left ← Right →	Suitable for	Pos	Article No.
Bulb	IP54	12/24V	Wird without connection cable delivered	Red / white	↔	2TJ 801 000-001	1 (Swiveling Foot)	098 241 160
Bulb	IP54	12/24V	Wird without connection cable delivered	Red / white	↔	2TJ 801 000-001	2	098 241 170

Spare parts

Lens Ø72 mm - white		098 291 169
Lens Ø72 mm - Red		098 291 168
Rubber gasket inclined		098 291 119
Bulb holder BA 15s		098 291 166

Outer end marker light, bulb version



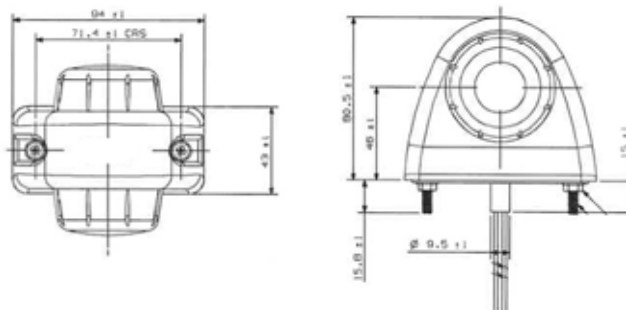
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Black rubber housing with reinforced base plate
Transperant lens with sidemarker
BA 9s Bubholder

Functions

Light source	IP Rating	Operation voltage	Connection	Cable length	Dimension	Light colour	Left ← Right →	Article No.
Bulb	IP67	12/24V	Open end	1.000 mm	168,5 x 174,5 mm	Red / white / yellow	←→	098 241 450

Outer end marker light, bulb version



Black rubber housing with 2 Mounting screws M5,
BA15s Bulb holder

Functions

Light source	IP Rating	Operation voltage	Connection	Cable length	Dimension	Lens	Suitable for	Article No.
Bulb	IP67	12/24V	Open end	200	94 x 81 mm	Red / white	428, 428.04, 428.104	098 241 190

Spare parts

Lens - red		098 291 198
Lens - white		098 291 199
Bulb holder with cable		098 291 195

Outer end marker light, bulb version

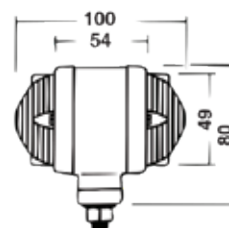
(E)



Pos 1



Pos 2



Stainless steel rim, side surface mounting
 Black plastic housing
 Hollow screw 3/4 UNF for cable entry and fixing
 Pos 2 - Stainless steel housing cap
 BA15s Bulb holder

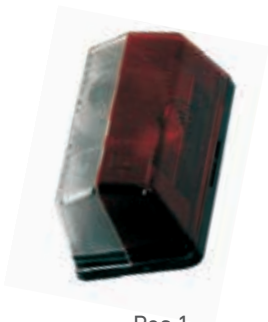
Functions

Light source	IP Rating	Operation voltage	Connection	Cable length	Dimension	Lens	Pos	Article No.
Bulb	IP54	12/24V	Open end	200 mm	80 x 100 mm	Red / white	1	098 242 002
Bulb	IP54	12/24V	Open end	200 mm	80 x 100 mm	Red / white	2	098 242 003

Spare parts

Lens - amber		098 294 007
Lens - red		098 294 008
Lens - white		098 294 009
Connection cable		098 291 455

Outer end marker light, bulb version



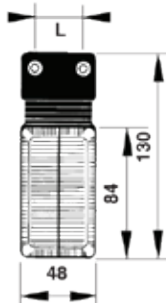
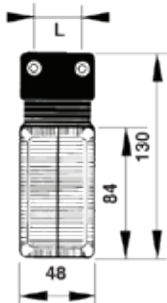
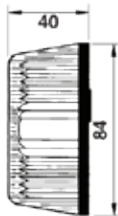
Pos 1



Pos 2



Pos 3



Black plastic back plate

Functions

Light source	IP Rating	Operation voltage	Connection	Connection	Dimension	Lens	Pos	Article No.
Bulb	IP54	12/24V	Flat plug	Cable lead through rubber grommet	84 x 40 mm	Red / white	1	098 241 370
Bulb	IP54	12/24V	Flat plug	Cable lead through rubber grommet	130 x 48 mm	Red / white	2	098 241 380

Spare parts

Lens for 098 241 370 + 380	3	098 291 399
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Outer end marker light, bulb version



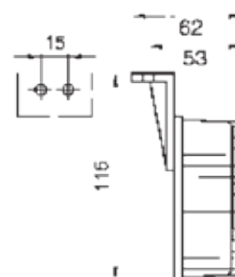
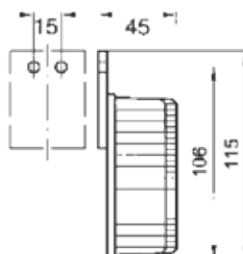
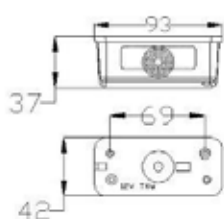
Pos 1



Pos 2



Pos 3



Black plastic back plate

Functions

Connection	IP Rating	Operation voltage	Connection	Dimension	Lens	Suitable for	Pos 1	Article No.
-	IP54	12/24V	Cable lead through rubber grommet	93 x 37 mm	Red / white	2XS 005 020-001	1	098 241 350
Flexible hinge, straight	IP67	12/24V	Cable lead through rubber grommet	106 x 45 mm	Red / white	2X S 005 020-021	2	098 241 352
Flexible hinge, angled	IP67	12/24V	Cable lead through rubber grommet	116 x 53 mm	Red / white	2XS 005 020-011	3	098 241 354



LIGHTING SET

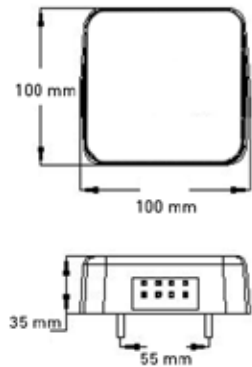
Lighting set complet for trailer, 12V



- Lighting set :
- 13 poled plug with 2 x 7 m cable
 - 2 x tail lights with triangle reflex reflector (098 215 800 + 805)
 - 2 x license plate lights
 - 2 x position light
 - 4 x reflex reflector, amber

Functions									
Light source	Operation voltage	Connection	Cable length	Position Flash Stop	Reverse	Rear fog	License plate	Reflex reflec- tor Triangle	Article No.
Bulb	12 V	13 poled plug	7.000 mm	✓	✓	✓	✓	✓	098 259 500

Lighting set with magnetic base mounting, 12V



With connection cable 2.500 mm and main cable 7.500 mm
With reflex reflector integrated
Dimension tail lights: (B x H x D) 100,0 x 100,0 x 40,0 mm

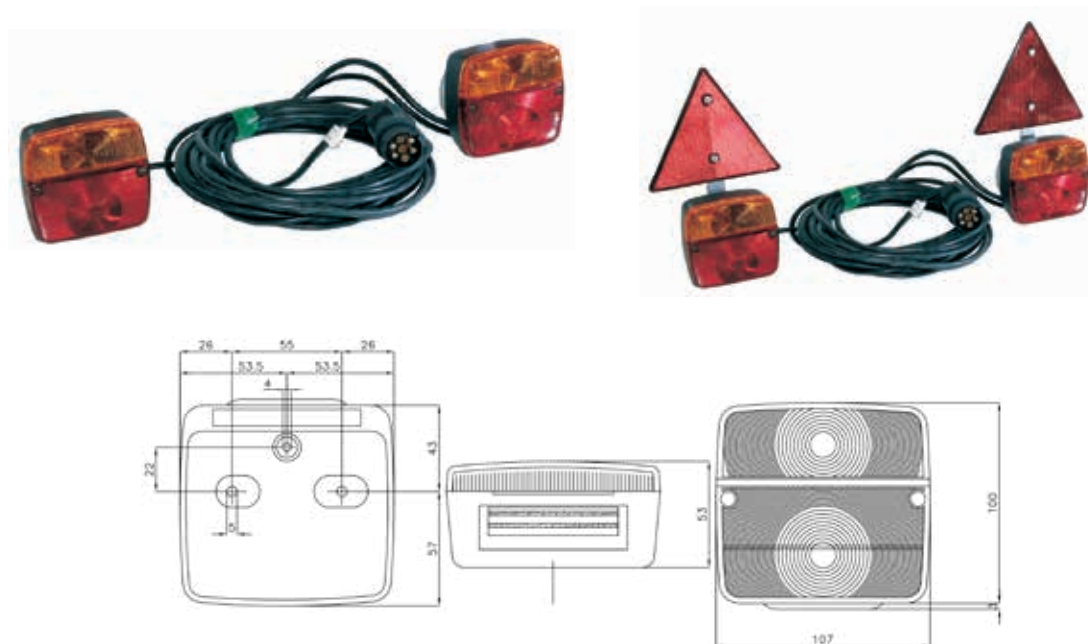
Functions

Light source	Operation voltage	Connection	Cable length	Position Flash Stop	License plate	Reflex reflector	Article No.
Bulb	12 V	7 poled plug	7.500 mm	✓	✓	✓	098 259 700

Spare parts

Tail light							098 212 302
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Lighting set with magnetic base mounting, 12V



Lighting set with magnetic base and 12V tail lights, bulb

Range/width max 2.500 mm

Tail light 12V Bulb

Dimension: 108 x 103 x 53 mm

Bolt hole distance: 55 mm

The lighting set is delivered with 12V bulb

Functions

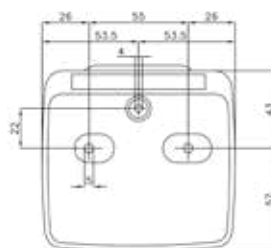
Light source	Operation voltage	Connection	Cable length	Position Flash Stop	License plate	Reflex reflector triangle	Article No.
Bulb	12 V	7 poled plug	7.500 mm	✓	✓		098 259 820
Bulb	12 V	7 poled plug	7.500 mm	✓	✓	✓	098 259 822

Spare parts

Position-stop-flash light without license plate light	098 210 360
Position-stop-flash light with license plate light	098 210 361
Lens for position-stop and flash lights	098 299 981
7 poled 12V plug	090 147 714
Triangle reflex reflector	098 267 610
Magnetic base 1	098 299 809

Lighting set with magnetic base mounting, 12V

E



Adjustable width 1.400 - 2.100 mm and mounted with tail lights 12V

Mounting : M10

Tail light 12V bulb

Dimension: 108 x 103 x 53 mm

Bolt hole distance: 55 mm

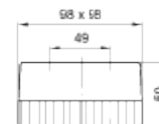
Functions

Light source	IP Rating	Operation voltage	Connection	Cable length	Position Flash Stop	License plate	Reflex reflector Triangle	Article No.
Bulb	IP 54	12 V	7 poled plug	7.500 mm	✓	✓	✓	098 259 804

Spare parts

Position-stop-flash light without license plate light	Socket version: BA15s	098 210 360
Position-stop-flash light with license plate light	Socket version: BA15s	098 210 361
Lens for position-stop and flash lights		098 299 981
7 poled 12 V plug		090 147 714
Triangle reflex reflector		098 267 610

Lighting set 12V



Lighting set for the "third" license plate holder - mounted with tail lights 12V
 Length: 920 mm
 Mounting : With belt

Tail light 12V Bulb
 Dimension: 98 x 98 x 50 mm
 Bolt hole distance: 49 mm

Functions

Light source	IP Rating	Operation voltage	Connection	Cable length	Position Flash Stop	License plate	Reflex reflector	Article No.
Bulb	IP 54	12 V	7 poled plug	2.000 mm	✓		✓	098 259 840

Spare parts

Tail light - position-stop-flash light	098 210 380
Lens	098 290 382
7 poled 12 V Plug	090 147 714



REAR BUMPER

Rear bumper



Rear bumper complete with LED lights 12/24V - for trailer < > 6000 mm

Anodized aluminum profile with E-approved lights

Dimension (LxTxH): 2400 x 120 x 250 mm / Length incl. outer end marker light is 2780 mm

Configuration:

- 4 pcs. 098 212 101 LED tail lights with position-, stop-, and flashlight
- 2 pcs. 098 255 101 LED fog and Reverse light
- 2 pcs. 098 254 336 LED license plate light
- 1 pcs. 098 241 427 LED outer end marker light, left
- 1 pcs. 098 241 428 LED outer end marker light, right
- 2 pcs. 098 267 610 triangle reflex reflector, red

ADR approved junction box - Specification – Please see below

Functions

Position, Stop Flash	Rear fog, Reverse	License plate	Outer end marker	Junction box	Connection	Resistor for Stop light	Operation voltage	Article No.
✓	✓	✓	✓	099 866 950	Open end	✓	12/24V	098 258 612
✓	✓	✓	✓	099 866 981	1500 mm cable 15 core with Ermax bayonet socket	✓	12/24V	098 258 680
✓	✓	✓	✓	099 866 952	Open end	✓	12/24V	098 258 711
✓	✓	✓	✓	099 866 756	1500 mm cable 15 core with Ermax bayonet socket		12/24V	098 258 712
✓	✓	✓	✓	099 866 956	1500 mm cable 15 core with Ermax bayonet socket	✓	12/24V	098 258 713
✓	✓	✓	✓	099 866 952	2500 mm cable 15 core with Open-End	✓	12/24V	098 258 714

Accessories

Reinforcement bracket		Left	098 299 602
A frame width between 840-1250 mm requires 2 pcs reinforcement bracket 4 T-bolts M12x55mm 099 110 000 are required		Right	098 299 603

Rear bumper



Rear bumper complete with LED lights 12/24V - for trailer < 6000 mm

Anodized aluminum profile with E-approved light

Dimension (LxTxH): 2400 x 120 x 250 mm / Length incl. outer end marker light is 2780 mm

Configuration:

4 pcs. 098212012 LED tail lights with position-, stop-, and flashlight

2 pcs. 098254336 LED license plate light

1 pcs. 098241427 LED outer end marker light, left

1 pcs. 098241428 LED outer end marker light, right

2 pcs. 098267610 triangle reflex reflector, red

LED Reverse light and rear fog light - specification, please see below

ADR approved junction box - Specification, please see below

Without resistor

Functions

Position, Stop Flash	Rear fog,	Reverse	License plate	Outer end marker	Junction box	Connection	Operation voltage	Article No.
✓	Without	098 256 010 (2 pcs.)	✓	✓	099 866 750	Open end	12/24V	098 258 615
✓	098 257 012 (2 pcs.)	098 256 495 (2 pcs.)	✓	✓	099 866 762	1500 mm cable 15 core with Ermax bayonet socket	12/24V	098 258 616
✓	098 257 012 (1 pcs.)	098 256 010 (1 pcs.)	✓	✓	099 866 750	Open end	12/24V	098 258 620

Accessories

Reinforcement bracket		Left	098 299 602
A frame width between 840-1250 mm requires 2 pcs. reinforcement bracket 4 T-bolts M12x55mm 099 110 000 are required		Right	098 299 603

Rear bumper



Rear bumper complete with LED Lights 12/24V - for trailer > 6000 mm

Anodized aluminum profile with E-approved light

Dimension (LxTxH): 2400 x 120 x 250 mm / Length incl. outer end marker light is 2780 mm

Configuration:

- 4 pcs. 098212012 LED tail lights with position-, stop-, and flashlight
- 2 pcs. 098255012 LED reverse-, and rear fog light
- 2 pcs. LED license plate light - please see article no. below
- 1 pcs. 098241427 LED outer end marker light, left
- 1 pcs. 098241428 LED outer end marker light, right
- 2 pcs. 098267610 Triangle reflex reflector, red

ADR approved junction box - Specification, please see below

Functions

Position, Stop Flash	Rear fog, Reverse	License plate	Outer end marker	Junction box	Connection	Resistor	Operation voltage	Article No.
✓	✓	098 254 336	✓	099 866 750	Open end		12/24V	098 258 610
✓	✓	098 254 336	✓	099 866 850	1500 mm cable 15 Core with Ermax bayonet socket	✓	12/24V	098 258 611
✓	✓	098 254 334	✓	099 866 765	1500 mm cable 15 Core with Ermax bayonet socket		12/24V	098 258 646
✓	✓	098 254 334	✓	099 866 795	1500 mm cable 15 Core with Ermax bayonet socket		12/24V	098 258 648

Accessories

Reinforcement bracket		Left	098 299 602
A frame width between 840-1250 mm requires 2 pcs. reinforcement bracket 4 T-bolts M12x55mm 099 110 000 are required		Right	098 299 603

Rear bumper



Rear bumper complete with LED Lights 24V - for trailer > 6000 mm

Anodized aluminum profile with E-approved light

Dimension (LxTxH): 2400 x 120 x 250 mm / Length incl. outer end marker light is 2780 mm

Configuration:

- 1 pcs. 098216701 LED tail light, left
- 1 pcs. 098216702 LED tail light, right
- 2 pcs. 098256494 LED reverse lights
- 1 pcs. 098241425 LED outer end marker light, Left
- 1 pcs. 098241426 LED outer end marker light, Right
- 2 pcs. 098254334 LED license plate light
- Triangular reflex reflector integrated in the tail light

Reverse lights - Specification, please see below

Functions

Position, Stop Flash	Rear fog	Reverse	License plate	Outer end marker	Junction box	Connection	Operation voltage	Article No.
✓	✓	098 256 494 (2 pcs.)	✓	✓	Without	Rear cable (not included)	24V	098 258 625
✓	✓	Without	✓	✓	Without	Rear cable (not included)	24V	098 258 627

Accessories

Reinforcement bracket		Left	098 299 602
A frame width between 840-1250 mm requires 2 pcs. reinforcement bracket 4 T-bolts M12x55mm 099 110 000 are required		Right	098 299 603

Rear bumper



LED Lights 24V

Rear bumper complete with LED tail lights 24V - for trailer > 6000 mm

Anodized aluminum profile with E-approved light

Dimension (LxTxH): 2400 x 120 x 250 mm / Length incl. outer end marker light is 2780 mm

Configuration:

- 1 pcs. 098216517 LED tail light with outer end marker light, left
- 1 pcs. 098216516 LED tail light with outer end marker light, right
- 2 pcs. 098254334 LED license plate light
- Triangular reflex reflector integrated in the tail light

ADR approved junction box - Specification, please see below

Functions

Position, Stop Flash	Rear fog	Reverse	License plate	Outer end marker	Junction box	Connection	Resistor	Operation voltage	Article No.
✓	✓	✓	✓	✓	099 866 756	1500 mm cable 15 Core with Ermax bayonet socket	Without	24V	098 258 740
✓	✓	✓	✓	✓	099 869 756	1500 mm cable 15 Core with Ermax bayonet socket	With Simac	24V	098 258 745

Accessories

Reinforcement bracket		Left	098 299 602
A frame width between 840-1250 mm requires 2 pcs. reinforcement bracket 4 T-bolts M12x55mm 099 110 000 are required		Right	098 299 603

Rear bumper



Hybrid tail lights 24V

Rear bumper complete with Hybrid tail lights 24V - for trailer > 6000 mm

Anodized aluminum profile with E-approved light

Dimension (LxTxH): 2400 x 120 x 250 mm / Length incl. outer end marker light is 2780 mm

Configuration:

- 1 pcs. 098216417 Hybrid tail light with Outer end marker light, Left
- 1 pcs. 098216416 Hybrid tail light with Outer end marker light, Right
- 2 pcs. 098254334 Hybrid license plate light
- Triangular reflex reflector integrated in the tail light

ADR approved junction box - Specification, please see below

Functions

Position, Stop Flash	Rear fog	Reverse	License plate	Outer end marker	Junction box	Connection	Resistor	Operation voltage	Article No.
✓	✓	✓	✓	✓	099 866 756	1500 mm cable 15 Core with Ermax bayonet socket	Without	24V	098 258 730
✓	✓	✓	✓	✓	099 869 756	1500 mm cable 15 Core with Ermax bayonet socket	With Simac		098 258 735

Accessories

Reinforcement bracket		Left	098 299 602
A frame width between 840-1250 mm requires 2 pcs. reinforcement bracket 4 T-bolts M12x55mm 099 110 000 are required		Right	098 299 603

Rear bumper



Rear bumper complete with tail lights in bulb version 24V - for trailer > 6000 mm

Anodized aluminum profile with E-approved light

Dimension (LxTxH): 2400 x 220 x 250 mm / Length incl. outer end marker light is 2780 mm

Configuration:

1 pcs. 098 216 365 tail light, left

1 pcs. 098 216 366 tail light, right

2 pcs. LED license plate light - please see article no. below

Triangular reflex reflector integrated in the tail light

ADR approved junction box - Specification, please see below

Functions

Position, Stop Flash	Rear fog, Reverse	License plate	Outer end marker	Junction box	Connection	Operation voltage	Article No.
✓	✓	098 254 336	✓	099 866 750	Open end	24V	098 258 630
✓	✓	098 254 334	✓	Without	Rear cable (not included)	24V	098 258 635
✓	✓	098 254 336	✓	099 866 750	300 mm cable 15 Core with Ermax bayonet socket	24V	098 258 650

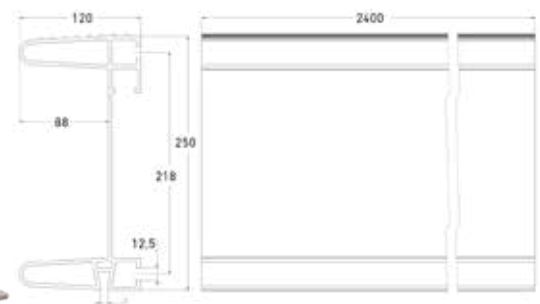
Accessories

Reinforcement bracket		Left	098 299 602
A frame width between 840-1250 mm requires 2 pcs. reinforcement bracket 4 T-bolts M12x55mm 099 110 000 are required		Right	098 299 603

Rear bumper, raw



Pos 1



Pos 2



Pos 3



Rear bumper, raw

Functions

Material	Predrilled	Dimension L x W x H	With end caps and type approval label	Pos	Article No.
Anodised aluminium	Without holes	2400 x 120 x 250 mm	✓	1	098 259 000
Anodised aluminium	For 2/3 function tail lights Holes: 6 x 135 mm	2400 x 120 x 250 mm	✓	2	098 258 000
Anodised aluminium	For 7 function tail lights Holes: 2 x 44 mm, 8 x 30 mm	2400 x 120 x 250 mm	✓	3	098 258 001

Spare parts rear bumper



Pos 1 - Left



Pos 2- Right



Pos 3



Pos 4



Pos 5



Pos 6



Pos 7



Pos 8

Spare parts

	Pos	Artikelnummer
Reinforcement bracket, left	1	098 299 602
Reinforcement bracket, right	2	098 299 603
Endcap, plastic - (2 pcs. pro rear bumper) left/right	3	098 299 610
Angle bracket, stainless steel, for fixation of marker light at rear bumper	4	098 299 605
T-bolt M12x55mm with square head for mounting of underrun protection (4 pcs. per rear bumper)	5	099 110 000
Type approval lable for rear bumper Only allowed for Ermax, Transport-Teknik rear bumper	6	099 110 001
Covering plate for rear bumper, aluminium	7	098 299 604
Cover for junctionbox, aluminum	8	098 299 606



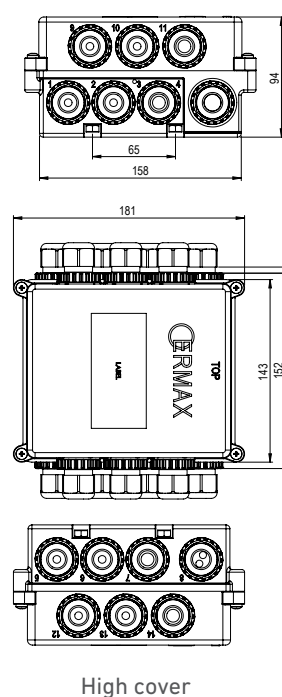
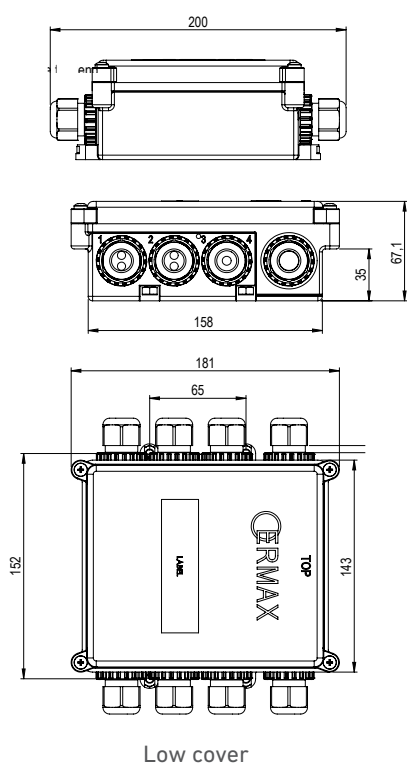
JUNCTION BOX

In the contribution boxes the brake-, position-, sidemarker- and out-end marker lights are only connected to a passive working electronic device. Error functions are thus not – with the present technic – shown in a trustworthy way on the dashboard. In order to ensure an outage control of the indicators being in according with the EU legislation, it is necessary to install a LED control box. (please see page 145)

Installation- and mounting components



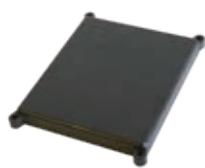
	Application / Description	Article No.
 Low cover	Junction box - Black plastic housing	
	Low cover - In/outlets: 8 x M22x1,5 cable glands	099 866 700
 High cover	High cover In/outlets: 14 x M22x1,5 cable glands	099 866 750
	Connections ISO 12098 pin no. / Number of blade connectors 6,3x0,8 mm: 1 Left flasher lamp / 4 pcs. 2 Right flasher lamp / 4 pcs. 3 Rear fog lamp / 6 pcs. 4 Ground / 16 pcs. 5 Left position / 6 pcs. 6 Right position / 6 pcs. 7 Stop lamp / 6 pcs. 8 Reversing lamp / 6 pcs. 9 Power supply, permanent positive / 2 pcs. 10 Aux 1, brake wear sensor / 2 pcs. 11 Aux 2, brake control for trailer / 2 pcs. 12 Aux 2, lift axle / 2 pcs. 13 Ground for electronics (CAN) / 2 pcs. 14 CANH - Data communication / 2 pcs. 15 CANL - Data communication / 2 pcs.	



Spare parts Junction box



Pos 1



Pos 2



Pos 3



Pos 4



Pos 5



Pos 6



Pos 7



Pos 8



Pos 9



Pos 10



Pos11



Pos 12



Pos 13



Pos 14

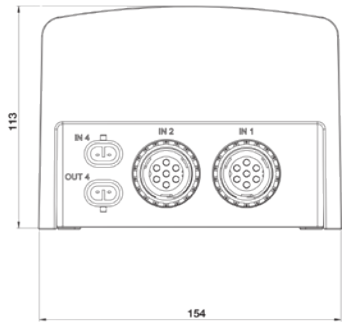
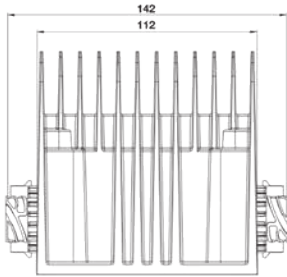


Pos 15

Spare parts / Accessories

Junction box without cover and connections. 8 x connections. 158 x 143 mm	1	099 110 200
Cover for junction box, low version, 158 x 143 x 18 mm	2	099 110 201
Cover for junction box, high version, 158 x 143 x 45 mm	3	099 110 202
Gasket for connections in junction box	4	099 110 203
Lock ring for connections in junction box	5	099 110 204
Housing for cable gland M22/2,0 in junction box	6	099 110 205
Nut for cable gland housing in junction box	7	099 110 206
Rubber blind for cable gland in junction box, Ø16/Ø11-13 mm	8	099 110 207
Rubber blind for cable gland in junction box, Ø16/Ø7-11 mm	9	099 110 208
Rubber seal, for cable diameter Ø4-6mm	10	099 110 209
Rubberblind for cable gland housing in junction box Ø16/2 x Ø5,5 mm	11	099 110 210
Super Seal socket for junction box. Black and white (-) wire	12	099 110 211
AMP 1,5 - 7 poled	13	099 110 212
Resistor 24V for direction indicator LxWxH: 75 x 61 x 20 mm	14	098 212 358
Heating cable (resistor) 24V with cable shoe Length: 545 mm	15	093 865 125

LED Steuerbox



LED control box for complete control of all LED functions
Cooler of aluminum ensures an effective heat discharge

Controls stop- and flash light and ensures troubleless application of LED tail lights
In case of faults in a tail light the controlsystem in the truck will be activated

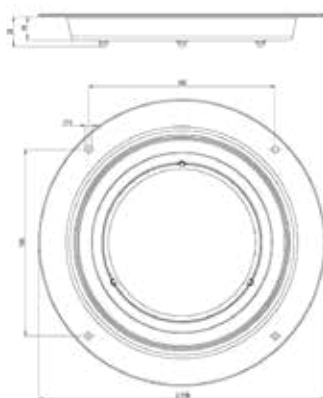
Functions		
Connection	Ausgänge	Article No.
1x15 poled Ermax bayonet socket	2x7 poled AMP 1.5 socket for LH+RH tail lights 4x2 poled Super Seal socket for LH+RH marker lights	098 298 100
2x7 poled AMP 1.5 socket	2x7 poled AMP 1.5 socket for LH+RH tail lights 4x2 poled Super Seal socket for LH+RH marker lights	098 298 120
1x15 poled Ermax bayonet socket	1x15 poled Ermax bayonet socket 2x2 poled Super Seal socket ffor LH+RH marker lights	098 298 130



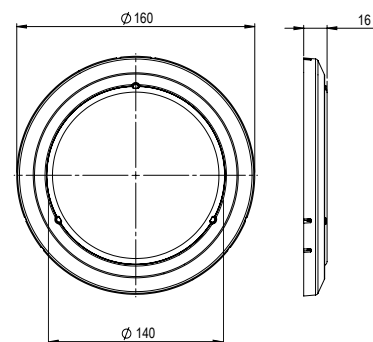
INTERIOR LIGHTING

LED interior lighting

EMC



Build-in



Surface mounting

LED interior light for surface mounting and build-in
 Mounting holes for build-in: 4 pcs. Ø5 mm - Ø201 mm
 Depth 18 mm
 Mounting holes for surface mounting: 3 pcs. Ø3,8 mm - Ø138 mm

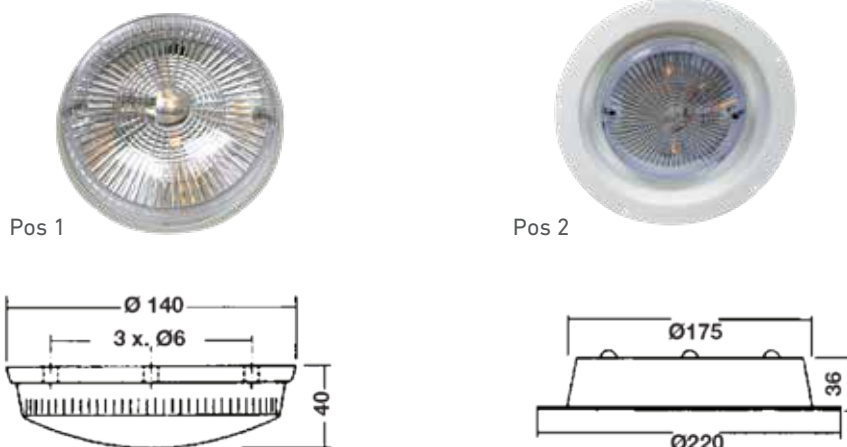
Functions

Ligth source	IP-Rating	Operation voltage	Lumen	Dimension	Surface mounting	Build-in	Connection	Article No.
LED	IP67	12/24V	294	Ø160 x 15,7 mm	✓		1.500 mm cable with Click-in	098 274 070
LED	IP67	12/24 V	294	Ø160 x 15,7 mm	✓		2.500 mm cable with Open end	098 274 071
LED	IP67	12/24V	294	Ø218 x 20 mm		✓	1.500 mm cable with Click-in	098 274 072
LED	IP67	12/24 V	294	Ø218 x 20 mm		✓	2.500 mm cable with Open end	098 274 073

Spare parts

Bowl for interior light, Dimension : Build-in Ø175 mm, outside Ø218 mm	098 291 070
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LED interior lighting



Stainless steel baseplate with rubber gasket
Clear polycarbonate lens
Build-in depth 36 mm

Functions									
Light source	IP Rating	Operation voltage	Lumen	Dimension	Surface mounting	Build-in	Connection	Pos	Article No.
Bulb	IP54	24V	300 (+/- 50)	Ø140 x 40 mm	✓		Cable lead through rubber grommet	1	098 271 081
LED	IP67	12/24 V	300 (+/- 50)	Ø140 x 40 mm	✓		Cable lead through rubber grommet	1	098 274 086
Bulb	IP54	24V	300 (+/- 50)	Ø220 x 38 mm		✓	Cable lead through rubber grommet	2	098 271 092
LED	IP67	12/24 V	300 (+/- 50)	Ø220 x 38 mm		✓	Cable lead through rubber grommet	2	098 274 096

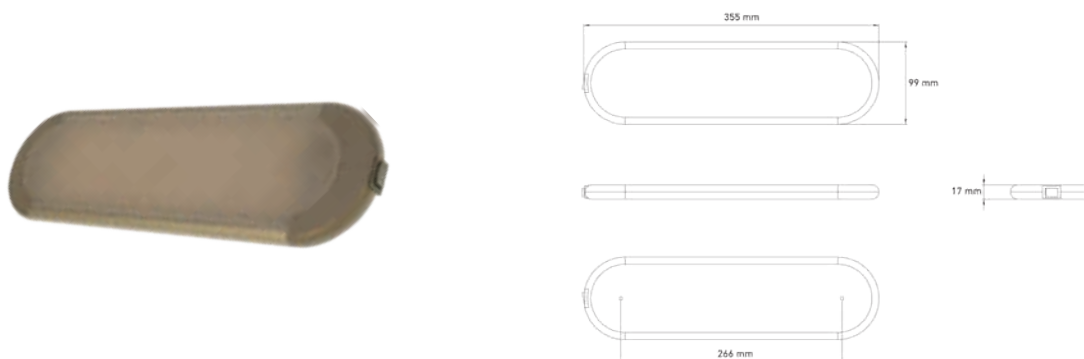
LED interior lighting



LED interior lighting for surface mounting or Build-in
Bolt hole distance: 260 mm

Functions								
Light source	IP-Rating	Operation voltage	Lumen	Dimension	Surface mounting	Build-in	Connection	Article No.
LED	IP67	24V	60	283 x 24 x 32 mm	✓	✓	500 mm cable with Super Seal socket	098 274 725

LED interior lighting 12/24V



Build-in switches with the choice between white or blue light (night -time drop)

Working temperature -30°C + 65°C

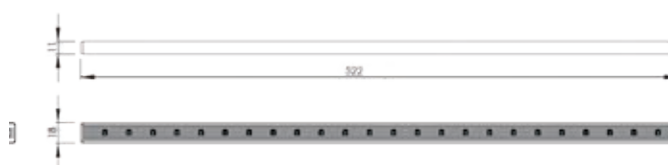
Bolt hole distance: 260 mm

Functions

Light source	IP Rating	Operation voltage	Lumen	Dimension	Surface mounting	Connection	Article No.
LED - 6	IP66	12/24V	60	355 x 99 x 32 mm	✓	300 mm cable open end	098 274 126

LED interior lighting Orizon 12V

Ⓔ



LED interior lighting for surface mounting

Suitable for interior light, glove- or toolbox light, floor-, or door light

Working temperature -30°C + 40°C

Functions

Light source	IP Rating	Operation voltage	Lumen	Dimension	Surface mounting	Connection	Article No.
LED - 24	IP66	12/24V	554	522 x 18 x 11 mm	✓	300 mm cable open end	098 274 630
LED - 24	IP66	12/24V	554	610 x 18 x 11 mm	✓	300 mm cable open end	098 274 640

Spare parts

Montageclips (2 - 3 pcs. per lamp)	098 292 600
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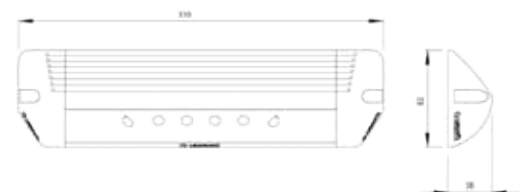
LED Lighting 12/24 V



Suitable for interior light, glove- or toolbox light, floor-, or door light
 Aluminum profile
 Impact resistant, white polycarbonat cover cap
 Blue or white LEDs
 The elements can be combined in different lengths

Functions							
Light source	Light colour	IP Rating	Operation voltage	Length	Dimension height / width	Connection	Article No.
18 x LED	Blue/ white	IP54	12 V	370 mm	H 15 x B 34,5 mm		098 274 218
30 x LED	Blue/ white	IP54	12 V	610 mm	H 15 x B 34,5 mm		098 274 230
6 x LED	Blue/ white	IP54	24V	130 mm	H 15 x B 34,5 mm	250 mm cable Open end	098 274 406
18 x LED	Blue/ white	IP54	24 V	370 mm	H 15 x B 34,5 mm		098 274 418
30 x LED	Blue/ white	IP54	24 V	610 mm	H 15 x B 34,5 mm		098 274 430

LED interior lighting Scenelite 10/32V



Robust and impact resistant housing of cast aluminum
 Suitable for outdoor illumination of the vehicles working area. Black and grey
 Consumption: 15W and long life expectancy (60000 hours). Waterproof

Functions								
Light source	IP Rating	Operation voltage	Lumen	Dimension	Surface mounting	Connection	Pos	Article No.
LED - 6	IP67	10 - 32 V	1704	310 x 82 x 38 mm	✓	200 mm cable open end	1	098 275 016
LED - 6	IP67	10 - 32 V	1704	310 x 82 x 38 mm	✓	200 mm cable open end	2	098 275 026



LIGHTING SOURCES

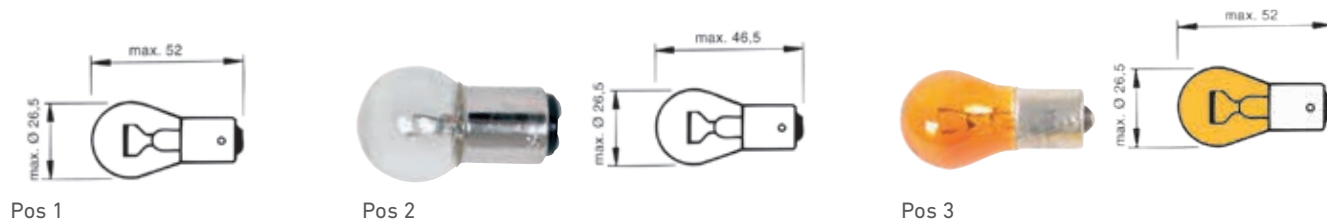
Bulb / LED



The bulbs / LED have no E-approval

Functions					
Operation voltage	Consumption	Colour	Socket	Suitable for Phillips	Article No.
12 V	0,5 W	Yellow	BA 15s	12821 (5 W)	092 612 216
12 V	0,5 W	Red	BA 15s	12821 (5 W)	092 612 116
12 V	0,5 W	White	BA 15s	12821 (5 W)	092 612 016
24 V	0,5 W	Yellow	BA 15s	13821 (5 W)	092 624 217
24 V	0,5 W	Red	BA 15s	13821 (5 W)	092 624 117
24 V	0,5 W	White	BA 15s	13821 (5 W)	092 624 017
12 V	1,7 W	Yellow	BA 15s	12498 (21 W)	092 612 211
12 V	1,7 W	Red	BA 15s	12498 (21 W)	092 612 011
12 V	1,7 W	White	BA 15s	13498 (21 W)	092 612 011
24 V	1,4 W	Yellow	BA 15s	13498 (21 W)	092 624 212
24 V	1,4 W	Red	BA 15s	13498 (21 W)	092 624 112
24 V	1,4 W	White	BA 15s	13498 (21 W)	092 624 012
12 V	1,6 W	Red	BAY 15d	12499 (21/5 W)	092 612 109
24 V	1,6 W	Red	BAY 15d	13499 (21/5 W)	092 624 110
24 V	0,29 W	White	BA9s	13929 (21/5 W)	092 724 018
12 V	0,28 W	White	W2, 1x9,5d	12256-12961(3-5 W)	092 712 032
24 V	0,42 W	White	W2, 1x9,5d	13256-13961(3-5 W)	092 724 037
12 V	0,5 W	White	SV8,5	12844 (5 W)	092 812 027
12 V	0,6 W	White	SV8,5	12866 (10 W)	092 812 025
24 V	0,7 W	White	SV8,5	13844 (5 W)	092 824 028
24 V	0,7 W	White	SV8,5	13866 (10 W)	092 824 026

Stop and flash light



Functions

Socket	Pos	Consumption	Operation voltage	Suitable for Osram	Suitable for Phillips	Article No.
BA15s	1	21 W	12 V	7506	12498	091 612 010
BA15s	1	18 W	24 V	7535	13445	091 624 061
BA15s	1	21 W	24 V	7511	13498	091 624 011
BA15s HD	1	21 W	24 V	9511	13498 HD	091 624 071
BA15d**	2	21 W	12 V	7432	12422	091 612 105
BA15s	2	15 W	24 V	7529	13401	091 624 124
BA15d**	2	21 W	24 V	7512	13422	091 624 159
With amber glass for clear flash lights						
BAU15s	3	21 W	12 V	7507	12496	091 612 084
BAU15s	3	21 W	24 V	-	13496	091 624 077
BAU15s	3	21 W	24 V	9507	13496 HDDLL	091 624 078

Stop and tail light

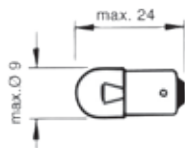


Functions

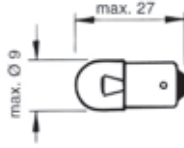
Socket	Consumption	Operation voltage	E-approved	Suitable for Osram	Suitable for Phillips	Article No.
BAZ15d	21 / 4 W	12 V	Ⓔ	7225	12594	091 612 113
BAZ15d	21 / 5 W	12 V	Ⓔ	7528	12499	091 612 008
BAZ15d (MAN 81.25901.0101)	21 / 4 W	24 V		-	-	091 624 185
BAZ15d	21 / 5 W	24 V	Ⓔ	7537	13499	091 624 009

Position-, parking- and flash light

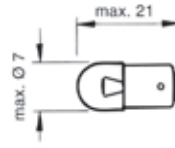
Pos 1



Pos 2



Pos 3

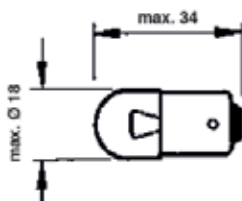


Functions

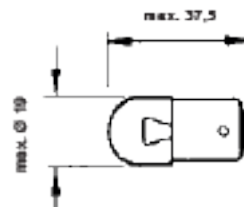
Socket	E-approved	Pos	Consumption	Operation voltage	Suitable for Osram	Suitable for Phillips	Article No.
BA9s		1	2 W	12 V	3796	12913	091 712 028
BA9s		1	3 W	12 V	3894	12910	091 712 094
BA9s		1	2 W	24 V	3797	13913	091 724 029
BA9s	Ⓔ	2	4 W	12 V	9511	13498 HD	091 712 016
BA9s	Ⓔ	2	4 W	24 V			091 724 017
BA9s HD	Ⓔ	2	4 W	24 V	7432	12422	091 724 074
BA7s	Ⓔ	3	2 W	12 V	7512	13422	091 712 018
BA7s		3	3 W	24 V			091 724 019

Position- and license plate light

Pos 1



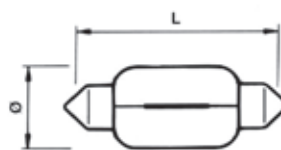
Pos 2



Functions

Socket	E-approved	Pos	Consumption	Operation voltage	Suitable for Osram	Suitable for Phillips	Article No.
BA15s	Ⓔ	1	5 W	12 V	5007	12821	091 612 014
BA15s	Ⓔ	1	10 W	12 V	5008	12814	091 612 012
BA15d		1	5 W	12 V	5407	12822	091 612 092
BA15s	Ⓔ	1	5 W	24 V	5627	13821	091 624 015
BA15s HD	Ⓔ	1	5 W	24 V	9627	13821 HD	091 624 075
BA15s	Ⓔ	1	10 W	24 V	5637	13814	091 624 013
BA15s HD	Ⓔ	1	10 W	24 V	9637	13814 HD	091 624 072
BA15s		2	15 W	12 V	5631	12413	091 612 119
BA15d	Ⓔ	2	5 W	24 V	5626	13822	091 624 125

Safittel light



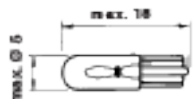
Functions

Socket	E-approved	Ø x L	Consumption	Operation voltage	Suitable for Osram	Suitable for Phillips	Article No.
SV8,5-8	Ⓔ	11 x 27 mm	10W	12V	6438	12860	091 812 130
SV7,0-8		8 x 28 mm	3W	12V	6428	12818	091 812 068
SV 5,5		6,5 x 33 mm	3W	12V	6439	12849	091 812 131
SV8,5-8		11 x 36 mm	5W	12V	6418	12844	091 812 026
SV8,5-8		11 x 36 mm	10W	12V	6461	12854	091 812 064
SV8,5-8		11 x 41 mm	5W	12V	6413	12864	091 812 066
SV8,5-8		11 x 41 mm	10W	12V	6411	12866	091 812 024
SV8,5-8		15 x 41 mm	18W	12V	6475	12807	091 812 031
SV7,0-8	Ⓔ	8 X 28 mm	3W	24V	6430	13842	091 824 069
SV5,5		6,5 x 33 mm	3W	24V	6444	13849	091 824 132
SV8,5-8		11x 36 mm	5W	24V	6423	13844	091 824 027
SV8,5-8		11 x 36 mm	10W	24V	-	13854	091 824 065
SV8,5-8		11 x 41 mm	5W	24V	6424	13864	091 824 067
SV8,5-8		11 x 41 mm	10W	24V	6429	13866	091 824 025
SV8,5-8		15 x 41 mm	15W	24V	6453	13850	091 824 112
SV8,5-8		15 x 41 mm	18W	24V	6480	13807	091 824 032

Instrument bulb with plastic socket



Pos 1



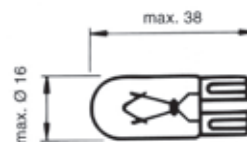
Pos 2



Pos 3



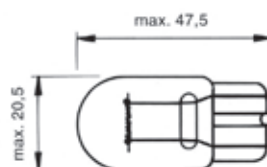
Pos 4



Functions

	Pos	Consumption	Operation voltage		Suitable for Osram	Suitable for Phillips	Article No.
W2,0x4,6d	1	1W	24 - 30 V		2341	-	091 724 155
W2,0x4,6d	1	2,3W	12 V		2723	12061	091 712 175
W2,0x4,6d	2	1,2W	12 V	(E)	2721	12516	091 712 022
W2,0x4,6d	2	1,2W	24 V	(E)	2741	13516	091 724 023
W2,1x9,5d	3	3W	12 V	(E)	2821	12256	091 712 020
W2,1x9,5d	3	5W	12 V	(E)	2825	12961	091 712 033
W2,1x9,5d Long life	3	5W	12 V	(E)	-	-	091 712 163
W2,1x9,5d amber/amber	3	5W	12 V	(E)	2827	12396	091 712 085
W2,1x9,5d	3	2W	24 V		2840	13960	091 724 095
W2,1x9,5d	3	3W	24 V	(E)	2841	13256	091 724 021
W2,1x9,5d	3	5W	24 V	(E)	2845	13961	091 724 036
W2,1x9,5d	4	16W	12 V				091 612 177

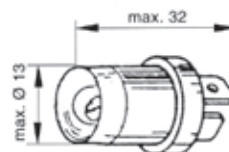
Glass socket for Japanese vehicles



Functions

	Consumption	Operation voltage	Article No.
W3 x 16d	21W	12 V	091 612 153
W3 x 16q	21 / 5 W	12 V	091 612 154

Reflector, 2 poled

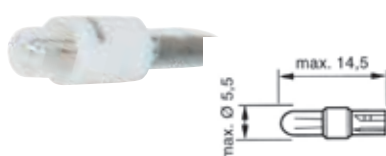


Functions

	Consumption	Operation voltage	Suitable for	Article No.
REF 9	2,4 W	24 V	For MAN & MB LKW	091 724 202

Instrument bulb with plastic socket

Pos 1



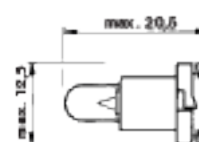
Pos 2



Pos 3



Pos 4



Functions

	Pos	Consumption	Operation voltage	Suitable for	Suitable for Osram	Suitable for Phillips	Article No.
W2,0 x 4,6d	1	1 W	24 - 30 V		-	13521	091 724 129
EBS R 4	2	1,2 W / 0,4mA	24 V	Iveco, Man, Mercedes-Benz, Scania, Volvo	7440	6500	091 724 096
EBS R 6	3	1,2 W / 0,5mA	24 V	Iveco, Man, Mercedes-Benz, Scania, Volvo	7241	-	091 724 097
EBS R10	4	1,2 W / 53mA	24 V	Busses	-	-	091 724 207

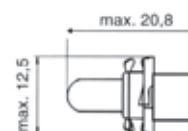
Instrument bulb with plastic socket



Pos 1 -Grey socket



Pos 2 - Beige socket



Functions

	Pos	Consumption	Operation voltage	Suitable for	Article No.
EBS N 1 / BAX10d	1	1,2 W / 60mA	24 V	MAN, VDO Kienzle	091 724 204
EBS N 10 / BAX10d	2	1,2 W / 60mA	24 V	Mercedes-Benz, Scania, Volvo	091 724 205

Instrument bulb with plastic socket



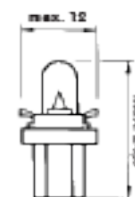
Pos 1



Pos 2



Pos 3



Functions							
	Pos	Consumption	Operation voltage	Suitable for	Suitable for Osram	Suitable for Phillips	Article No.
B8,5d / BAX10d	1	1,2 W	12 V	Opel, VDO 92 171 05 Motometer 64002 - 3610	2721 MF	12598	091 712 034
B8,5d / BAX10d	2	1,2 W	12 V	Audi, Mercedes-Benz, Volvo	-	12603	091 712 191
B8,5d / BAX10d	3	1,2 W	24 V	Iveco, Man, Mercedes-Benz VDO 92 171 03 Motometer 64002 - 3810	2741MF	13598	091 724 030

Instrument bulb with plastic socket



Pos 1



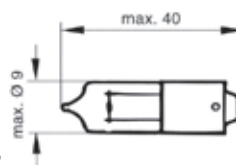
Pos 2

Functions							
	Pos	Consumption	Operation voltage	Suitable for	Suitable for Osram	Suitable for Phillips	Article No.
B8,3d / BAX10s	1	1,4 W	12 V	VW, VDO 92 171 02 Motometer 64002 - 1019	2721 MF8	12597	091 712 037
B8,3d / BAX10s	2	1,2 W	12 V	Iveco, MAN, Audi, Mercedes-Benz, VDO 92 171 04	2741 MF8	13597	091 724 038

Auto



Pos 1



Pos 2

Functions							
	Pos	Consumption	Operation voltage		Suitable for Osram	Suitable for Phillips	Article No.
BA9s	1	5 W	12 V		64111	12023	091 612 052
BA9s	1	20 W	12 V		64115	12025	091 612 050
BAY9s	2	21 W	12 V	Ⓔ	64136	12356	091 612 180
BAY9s	2	21 W	24 V	Ⓔ	64138	13356	091 624 141

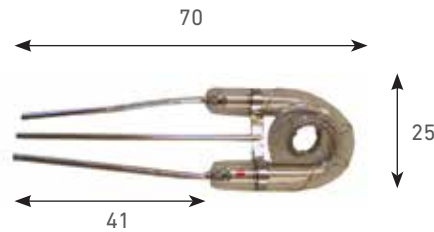
Halogen



Functions

	Consumption	Operation voltage		Suitable for Osram	Article No.
G4	10 W	24 V		64434	091 724 233
G4	20 W	24 V		64435	091 724 232

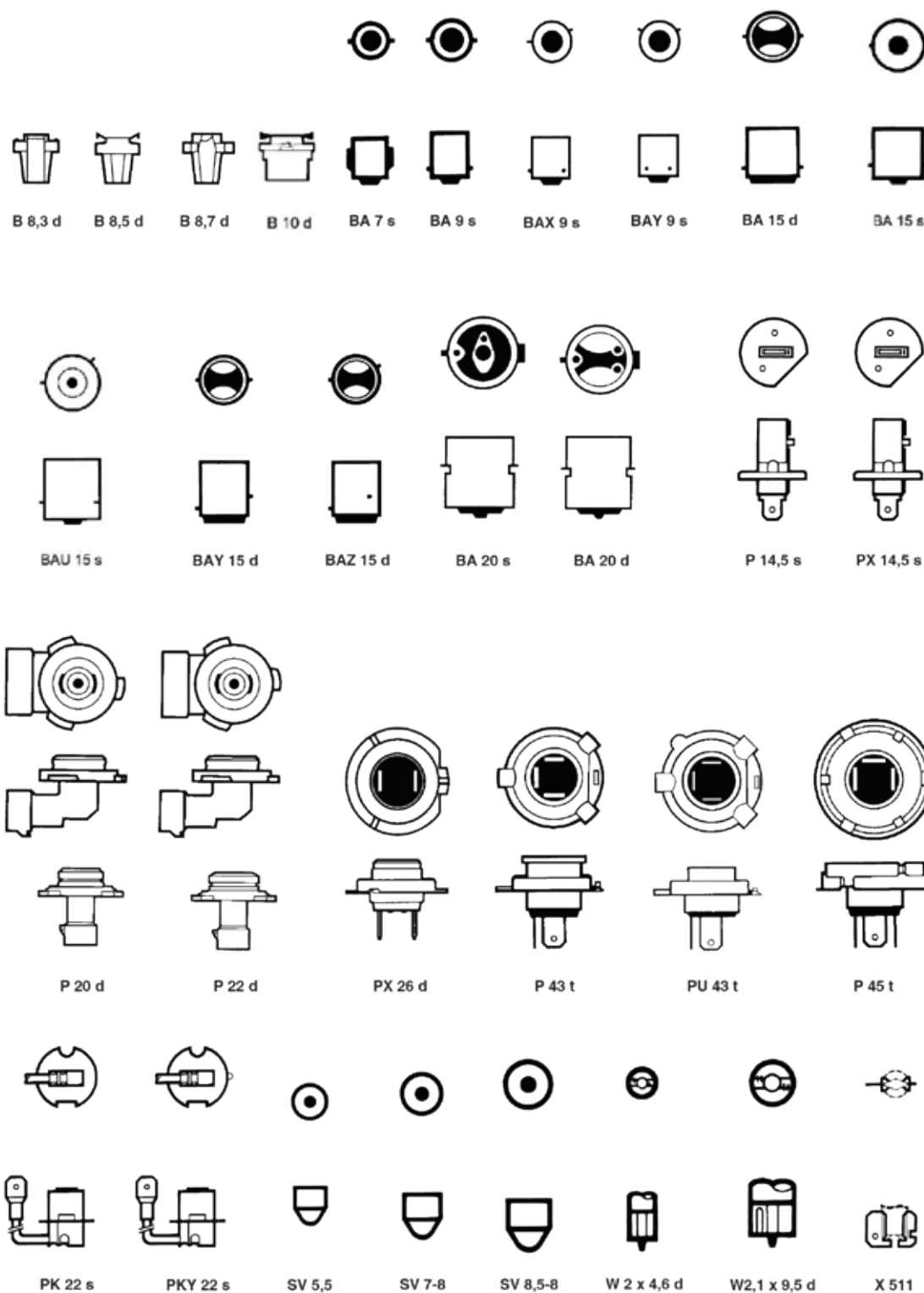
Xenon



For flach lights

Functions

	Suitable for	Article No.
Xenon-tube	For 098 285 762 / 764 / 536 / 546 / 556	091 969 010





BULB HOLDER

Bulb holder, metal



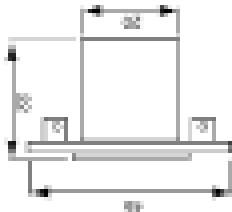
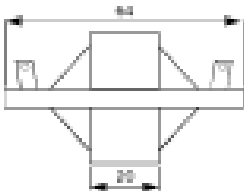
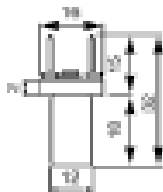
Pos 1



Pos 2



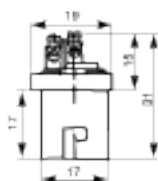
Pos 3



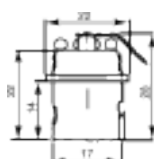
Functions

Material	Socket	Pos	Article No.
Bulb holder, plastic	BA9s	1	098 291 813
Bulb holder, plastic for 2 bulbs	BA15s	2	098 291 166
Bulb holder, plastic Suitable for 098 241 431 / 433	BA15s	3	098 291 438
Bulb holder, plastic Suitable for 098 241 432 / 434	BA15d	3	098 291 439

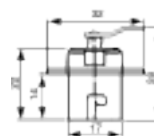
Bulb holder, metal



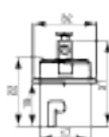
Pos 1



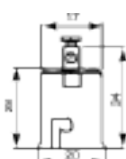
Pos 2



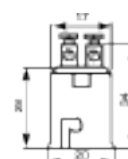
Pos 3



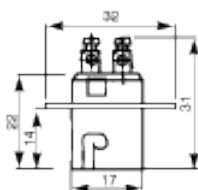
Pos 4



Pos 5



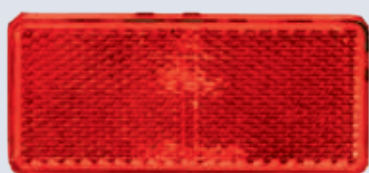
Pos 6



Pos 7

Functions

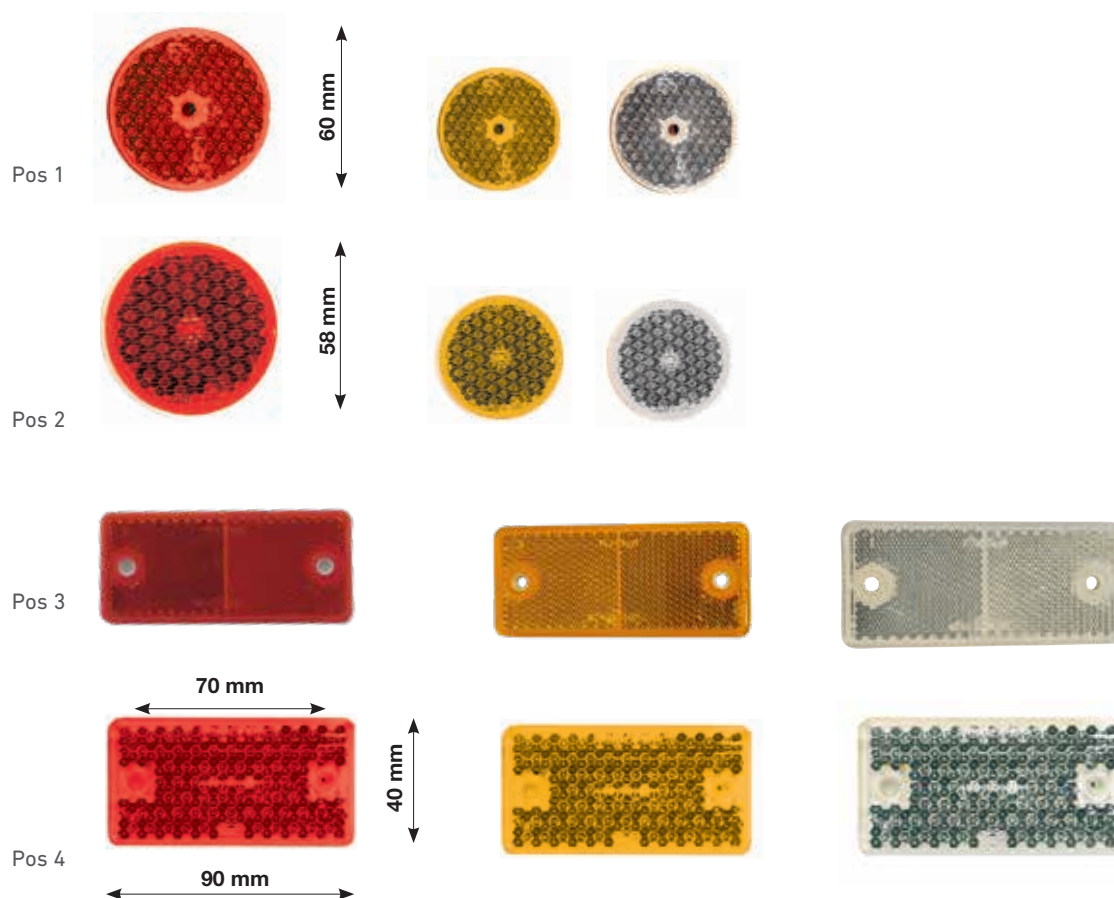
Material	Socket	Pos	Article No.
Bulb holder, metal	BA15s	1	098 291 126
Bulb holder, metal - with angle bracket	BA15s	2	098 291 821
Bulb holder, metal - with flange	BA15s	3	098 291 832
Bulb holder, metal - with flange screw	BA15s	4	098 291 833
Bulb holder, metal	BA15s	5	098 299 996
Bulb holder, metal	BA15d	6	098 299 997
Bulb holder, metal	BA15d	7	098 291 834



REFLEX REFLECTORS & WARNING SIGNS

Reflex reflector with and without self-adhesive back

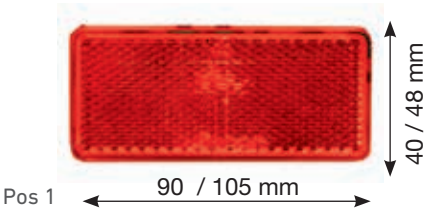
E



Functions

Colour		Dimension	Hole/Screw	Self-adhesive	Packing units	Pos	Article No.
Red		Ø60 mm	Ø 6,3 mm		10	1	098 261 060
Yellow		Ø60 mm	Ø 6,3 mm		10	1	098 261 062
White		Ø 60 mm	Ø 6,3 mm		10	1	098 261 064
Red		Ø58 mm		✓	10	2	098 262 061
Yellow		Ø58 mm		✓	10	2	098 262 063
White		Ø58 mm		✓	10	2	098 262 065
Red		90 x 40 mm	Ø 4,3 mm/2 x 4 mm M5		10	3	098 264 120
Yellow		90 x 40 mm	Ø 4,3 mm/2 x 4 mm M5		10	3	098 264 122
White		90 x 40 mm	Ø 4,3 mm/2 x 4 mm M5		10	3	098 264 124
Red		90 x 40 mm		✓	10	3	098 265 130
Yellow		90 x 40 mm		✓	10	3	098 265 132
White		90 x 40 mm		✓	10	3	098 265 134

Reflex reflector



Functions						
Colour		Dimension	Hole/Screw	Self-adhesive	Packing units	Pos
Red		90 x 40 mm		✓	10	1
Yellow		90 x 40 mm		✓	10	2
White		90 x 40 mm		✓	10	3
Red		105 x 48 mm		✓	10	1
Yellow		105 x 48 mm		✓	10	2
White		105 x 48 mm		✓	10	3

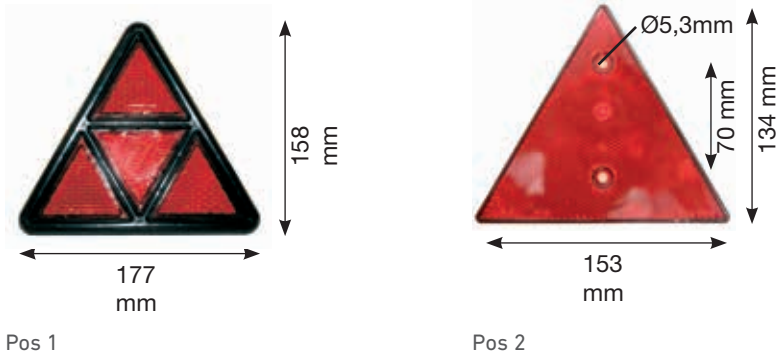
Contour marking



Functions				
Colour		Self-adhesive contour marking, for rigid sides	Packing units	Artikel-Nr.
Red		50 m x 55 mm	50 meters per roll	098 269 200
Yellow		50 m x 55 mm	50 meters per roll	098 269 202
White		50 m x 55 mm	50 meters per roll	098 269 204

Reflex reflector

E



Functions						
Colour		Dimension	Hole/Screw	Self-adhesive	Packing units	Article No.
Red		177 x 158 mm	2 x M5		10	098 266 600
Black impact resistant plastic base plate						
Red		158 x140 mm	Ø 5,3 mm		10	098 267 610

Reflex reflector

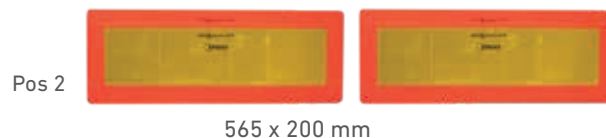
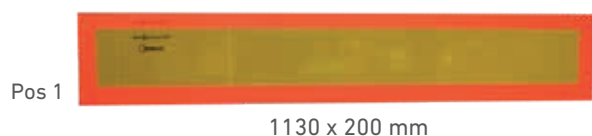
E



Functions						
Colour		Dimension	Hole/Screw	Self-adhesive	Packing units	Article No.
Red		200 x 50 mm	2 x 4 mm	✓	10	998 210 403
Yellow		200 x 50 mm	2 x 4 mm	✓	10	998 210 402
White		200 x 50 mm	2 x 4 mm	✓	10	998 210 401

Reflex marker board for trailer

ECE R 70.01



Functions

Aluminum plate	Self-adhesive folie	Packing units	Pos	Article No.
1130 x 200 mm		1	1	098 269 411
	1130 x 200 mm	1	1	098 269 412
565 x 200 mm		2	2	098 269 413
	565 x 200 mm	2	2	098 269 414
285 x 200 mm		4	3	098 269 415
	285 x 200 mm	4	3	098 269 416

Reflex marker board for truck

ECE R 70.01



Functions

Aluminum plate	Self-adhesive folie	Packing units	Pos	Article No.
1130 x 132 mm		1	1	098 269 401
	1130 x 132 mm	1	1	098 269 402
565 x 132 mm		2	2	098 269 403
	565 x 132 mm	2	2	098 269 404
285 x 132 mm		4	3	098 269 405
	285 x 132 mm	4	3	098 269 406

Container-reflex marking set

E

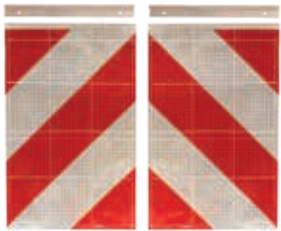


Functions

Self-adhesive folie	Self-adhesive folie	Packing units	Article No.
700 x 140 mm - 8	140 x 140 mm - 8	1	098 269 160

Lift flag with aluminum holder

E



To be used for tail board (side board) according to StVZO § 53b Abs
Supplied with 2 pcs. aluminum holders

Functions

Colour	Dimension	Packing units	Placement	Article No.
Red / White	400 x 250 - 2	2 pcs	Set with left and right indicator	098 269 175

Warning sign



Pos 1



Pos 2



Pos 3



Pos 4

Functions

DIN Norm		Dimension (L x B)	Material	Foldable	Packing units	Placement	Pos	Article No.
DIN 11030	One-sided	423 x 423 mm	Aluminum plate	---	1	Left / Right	1	098 269 122
DIN 11030	One-sided	423 x 423 mm	Zinc plated Steel plate	Vertical	1	Left	2	098 269 127
DIN 11030	One-sided	423 x 423 mm	Zinc plated Steel plate	Vertical	1	Right	3	098 269 128
DIN 11030	Double-sided	423 x 423 mm	Zinc plated Steel plate	Vertical	1	Left / Right	4	098 269 125

Reflex band Red/White 5cmx20m

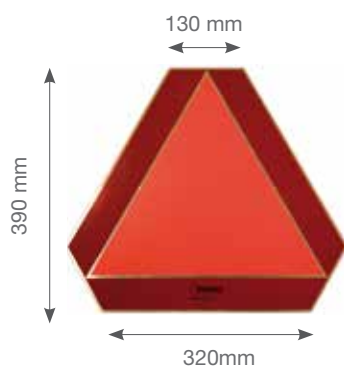


Functions

Placement	Dimension	Self-adhesive	Article No.
Rightsetting / RH	20 m x 5 cm	✓	098 269 205
Leftsetting / LH	20 m x 5 cm	✓	098 269 206
Rightsetting / RH	20 m x 10 cm	✓	098 269 207
Leftsetting / LH	20 m x 10 cm	✓	098 269 208

Warning sign - Triangle reflex reflector

Ⓔ



Pos 1



Pos 2



Pos 3



Pos 4

Pos 2 - Packed in a plastic bag

Functions

Triangle		Dimension (L x B)	Material	Packing units	Mounting	Bolt hole distance	Pos	Article No.
SMV	One-sided	390 x 390 mm	Folie	1	Self- adhesive	---	1	098 269 951
SMV	One-sided	390 x 390 mm	Aluminum plate	1	Screw	153 mm	1	098 269 952
SMV	One-sided	390 x 390 mm	Red impact resistant plastic base sheet	1	Screw	153 mm	1	098 269 960
EU-Norm	Foldable			1	Standing		2	998 260 011

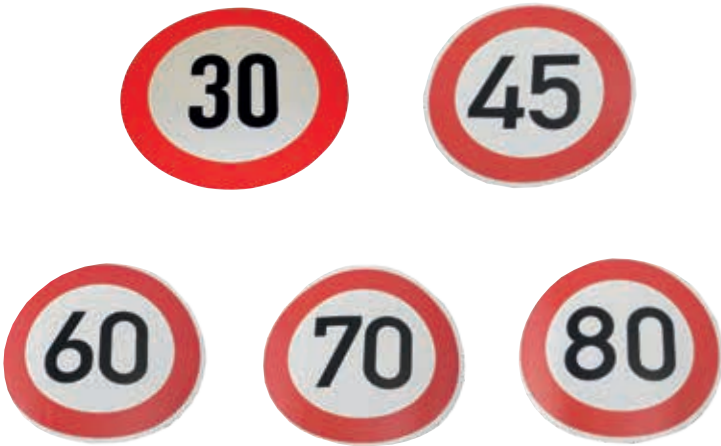
Spare parts

Mounting bracket for triangle reflex reflector, with 2 mounting holes 6,5 mm, Length 170 mm Packing units - 5	3	098 269 956
Mounting bracket for triangle reflex reflector, with 2 mounting holes 6,5 mm, Length 62 mm Packing units - 5	4	098 269 957



SIGNS

Speed boards/signs



Functions			
Self-adhesive	Variant	Dimension	Article No.
✓	30 Km	Ø 210 mm	959 401 274
✓	45 Km	Ø 210 mm	959 401 275
✓	60 Km	Ø 210 mm	959 401 276
✓	70 Km	Ø 210 mm	959 401 277
✓	80 Km	Ø 210 mm	959 401 278

Danger signs



Pos 1



Pos 2



Pos 3



Pos 4



Pos 5

Functions

	Dimension (L x B x T)	Material	Foldable	Packing units	Pos	Article No.
One-sided	400 x300 1,5 mm	Zinc plated Steel plate	---	1	1	093 199 268
One-sided	400 x300 1,5 mm	Aluminum plate	Horizontal	1	2	093 199 269
One-sided	400 x300 1,5 mm	Aluminum plate	Vertical	1	3	093 199 270

Spare parts

Holding plate with safety lock: Stainless steel - Suitable for 093 199 268 Dimension: Length: 405 mm / width: 310 mm	4	093 199 267
Thumb turn for marker, stainless steel Dimension: 11 x 15 mm	5	093 199 279

TIR Sign



Functions			
Aluminum plate		Packing units	Article No.
400 x 200 x 1,0 mm	Blue with white letters	1	093 199 281

Support load sign



For trucks with moving devices

Functions			
Self-adhesive		Packing units	Article No.
210 x 70 mm	Yellow with black letters and numbers (40 mm)	10	959 401 141

Sign, 12V & 24V



Functions			
Sign	Self-adhesive		Article No.
12V	75 x 52 mm	Yellow with black letters and numbers (40 mm)	959 401 107
24V	75 x 52 mm	Yellow with black letters and numbers (40 mm)	959 401 108



PLUG & ADAPTER CABLES

Loose plugs



Functions

Plug type	Yellow Rubber grommet	Number of poles	Cable shoe	Red Position Rubber grommet	Pos	Article No.
Super Seal plug	Ø 1,8 - 2,4 mm	2	Blade receptacle 0,5 - 1,0 mm ²		1	099 110 019
Super Seal socket	Ø 1,8 - 2,4 mm	2	Blade, terminal 0,5 - 1,0 mm ²		2	099 110 018
Super Seal plug	Ø 1,8 - 2,4 mm	3	Blade receptacle 0,5 - 1,0 mm ²	✓	3	099 111 102
Super Seal socket	Ø 1,8 - 2,4 mm	3	Blade, terminal 0,5 - 1,0 mm ²	✓	4	099 111 103

Accessories

Rubber grommet for 2 poled Super Seal plug	5	099 110 712
Rubber grommet for 3 poled Super Seal plug	6	099 110 713
T-Coupling for 3 poled Super Seal plug (3 socket)	7	099 111 415
Blanking plug for 2 poled Super Seal socket - Black plastic	8	099 110 028
Blanking plug for 2 poled Super Seal plug - Black plastic	9	099 110 029

Loose plugs & blanking plug



Pos 1



Pos 2



Pos 3



Pos 4



Pos 5



Pos 6



Pos 7

7 poled AMP 1.5 Plug for cable with Ø 5,0-12 mm

Functions

Plug type	poled	Pin receptacle	Blue Rubber grommet	White Rubber grommet	Clear Position Rubber grommet	Pos	Article No.
AMP 1,5 plug, straight	7	0,5 - 1,0 mm ² 1,0 - 2,5 mm ²	Ø 1,2 - 2,1 mm	Ø 2,2 - 3,0 mm	✓	1	099 111 481
AMP 1,5 plug, angled	7	0,5 - 1,0 mm ² 1,0 - 2,5 mm ²	Ø 1,2 - 2,1 mm	Ø 2,2 - 3,0 mm	✓	2	099 111 485
AMP 1,5 socket, straight	7					3	099 111 541
5 poled plug, left	5					4	098 295 076
5 poled plug, right	5					5	098 295 078
5 poled plug, left	5					6	098 295 077
5 poled plug, right	5					7	098 295 079

Accessories

Blanking plug for 7 poled AMP socket Black plastic	8	099 110 027
Blanking plug for 7 poled AMP plug with bayonet thread	9	099 110 026

Loose plugs



Pos 1



Pos 2



Pos 3



Pos 4

Functions

Plug type	Suitable for Tail lights	Pos	Article No.
8 poled bayonet plug	098 212 951 / 952 / 953 / 954	1	098 292 775
7 poled plug, angled		2	098 291 300
2 poled "Deutsch" plug		3	098 291 690
Adapter dual Click-in 1,5 mm² incl. clips (2 pcs)	1,5 mm² flat cabel for connecting 2 flat cables	4	099 110 032

Adapter cable



Pos 1



Pos 2



Pos 3



Pos 4

Adapter cable for Ermax tail lights
Cable type: FLRYY

Functions

Connection	Cable length	Conductor cross-section	Pos	Article No.	
Aspöck ASS2 7 poled socket > 7 poled AMP 1.5 bayonet plug, angled	200 mm	5x1 mm ² + 1x2,5 mm ²	Left	1	994 002 062
Aspöck ASS2 7 poled socket > 7 poled AMP 1.5 bayonet plug, angled	200 mm	5x1 mm ² + 1x2,5 mm ²	Right	1	994 002 063
Hella 7 poled plug > 7 poled AMP 1.5 bayonet plug	300 mm	6x1 mm ²	Left / Right	2	994 003 064
Hella 15 poled plug > Ermax 15 poled bayonet plug	200 mm	12x1 mm ² + 3x2,5 mm ²	---	3	994 002 151
Aspöck ASS3 17 poled plug > Ermax 15 poled bayonet plug	200 mm	12x1 mm ² + 3x2,5 mm ²	---	4	994 002 150

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Tel. +45 3969 6800 • www.ermas.dk