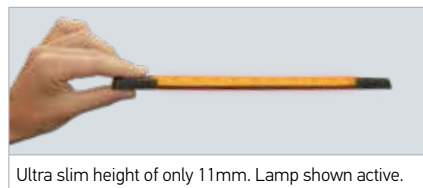


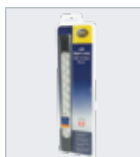
LED SLIM SURFACE MOUNT

LED Front Direction Indicator Lamp – Surface Mount

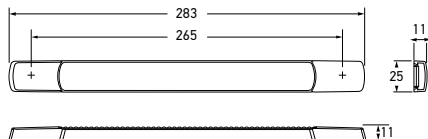
Surface mount LED front direction indicator lamp that is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Ultra slim height of only 11mm. Lamp shown active.



2109BL



2109	2BA 980 888-301 – Horizontal Mount	12 VOLT DC
2109BL	2BA 980 888-322 – Blister Pack - Horizontal Mount	
2109-24V	2BA 980 888-401 – Horizontal Mount	24 VOLT DC
2109-24VBL	2BA 980 888-422 – Blister Pack - Horizontal Mount	
2109V	2BA 980 888-501 – Vertical Mount	12 VOLT DC
2109V-24V	2BA 980 888-601 – Vertical Mount	24 VOLT DC

Power Consumption	3W
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs with 0.5m cable)
Lens Material	Nylon (PA12)
Compliance	ADR 6/00: Cat 1 Horizontal E24 5869 Vertical E24 5890 ECE R6/01

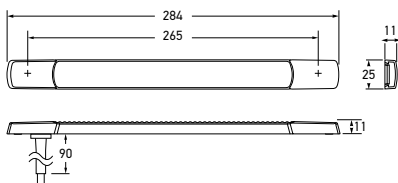
See page 80 for surface mount strip lamp screw caps.

LED Slim Surface Mount Combination Lamp

The Surface Mount Strip lamp features an extremely durable Nylon (PA12) lens that is impact, UV and chemical resistant. Ultra-efficient LEDs offer increased reliability while reducing power consumption, maintenance and operational costs.



2110-24V
LED Slim Surface Mount Combination Lamp
Front Direction Indicator/Front Position



2110-12V	2BE 980 819-301	12 VOLT
2110-24V	2BE 980 819-401	24 VOLT



Mounting	Suitable for horizontal and vertical mounting
Power Consumption	Front position: <1W Front direction indicator: 3W
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable
Lens Material	High impact and chemical resistant Nylon (PA12) lens
Spare Parts	9.2652.09 White screw caps (Pack of 4) 9.1009.09 Charcoal screw caps (Pack of 4) 9.1009.10 Chrome screw caps (Pack of 4)
Compliance	ADR 49/00 ADR 6/00: Cat 1

Includes mounting screws and charcoal screw caps.

LAMP FUNCTIONS





2168	2BA 980 888-001	12 VOLT DC
2168BL	2BA 980 888-022 – Blister Pack 	
2168-24V	2BA 980 888-201	24 VOLT DC
2168-24VBL	2BA 980 888-222 – Blister Pack 	
Mounting	Suitable for horizontal and vertical mounting	
Power Consumption	3W	
Protection	As per Part No. 2109	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs with 0.5m cable)	
Lens Material	Nylon (PA12)	
Compliance	ADR 6/00: Cat 2a	ECE R6/01

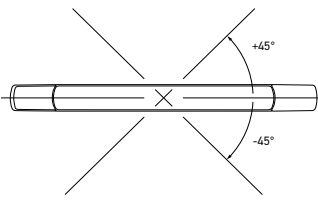
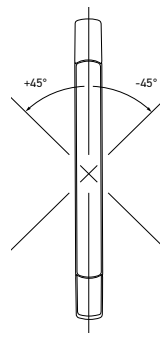
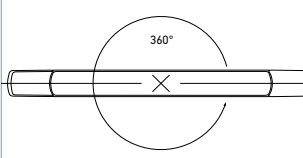
LED Rear Direction Indicator Lamp – Surface Mount

Surface mount LED rear direction indicator lamp that is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Ultra slim height of only 11mm. Lamp shown active.

MOUNTING DIAGRAMS

PART NO. 2109/...-24V	PART NO. 2109V/...-24V	PART NO. 2168/...-24V
		

Horizontal mount: +/- 45° rotation around lamp (and vehicle) axis

Vertical mount: +/- 45° rotation around lamp (and vehicle) axis

Horizontal mount & Vertical mount: 360° rotation around lamp (and vehicle) axis



2168BL

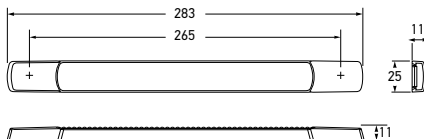
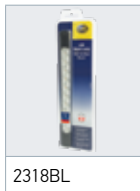
LED SLIM SURFACE MOUNT

LED Stop/Rear Position Lamp – Surface Mount

Surface mount LED stop/rear position lamp that features Enhanced Definition Technology (EDT) and is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



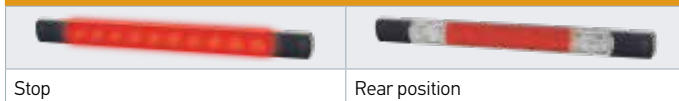
Ultra slim height of only 11mm. Lamp shown active.



2318	2SB 980 887-001	12 VOLT DC
2318BL	2SB 980 887-002 – Blister Pack	
2318-24V	2SB 980 887-201	24 VOLT DC
2318-24VBL	2SB 980 887-202 – Blister Pack	

Mounting	Suitable for horizontal and vertical mounting		
Power Consumption	Stop: 3W	Rear Position:	<0.5W
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 0.3m cable		
Lens Material	Nylon (PA12)		
Compliance	ADR 49/00		

STOP / REAR POSITION LAMP FUNCTIONS

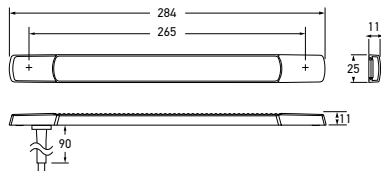


LED Slim Surface Mount Combination Lamp

The Surface Mount Combination lamp features an extremely durable nylon (PA12) lens that is impact, UV and chemical resistant. Ultra-efficient LEDs offer increased reliability while reducing power consumption, maintenance and operational costs.



2375-24V
LED Slim Surface Mount Combination Lamp
Stop/Rear Position/Rear Direction Indicator (Stop function shown)



2375-12V	2SD 980 819-001	12 VOLT
2375-24V	2SD 980 819-221	24 VOLT

Mounting	Suitable for horizontal and vertical mounting		
Power Consumption	Stop: 2W	Rear position: <0.5W	Rear direction indicator: 2W
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
Lens Material	Nylon (PA12)		
Spare Parts	9.2652.09	White screw caps (Pack of 4)	
	9.1009.09	Charcoal screw caps (Pack of 4)	
	9.1009.10	Chrome screw caps (Pack of 4)	
Compliance	ADR 49/00 ADR 6/00: Cat 2a ECE 6/01 ECE 7/02		
Includes mounting screws and charcoal screw caps.			

LAMP FUNCTIONS





1468	2ZR 980 889-001 – Horizontal Mount	12 VOLT DC
1468BL	2ZR 980 889-022 – Blister Pack - Horizontal Mount	
1468-24V	2ZR 980 889-201 – Horizontal Mount	24 VOLT DC
1468-24VBL	2ZR 980 889-222 – Blister Pack - Horizontal Mount	
1468V	2ZR 980 889-101 – Vertical Mount	12 VOLT DC
1468V-24V	2ZR 980 889-301 – Vertical Mount	24 VOLT DC

Power Consumption 3W

Protection	As per Part No. 2318
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Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs with 0.5m cable)
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Lens Material	Nylon (PA12)
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Compliance	ADR 1/00 Horizontal 0027 Vertical 0028 ECE R23/00
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Reversing lamps are not designed for continuous operation.

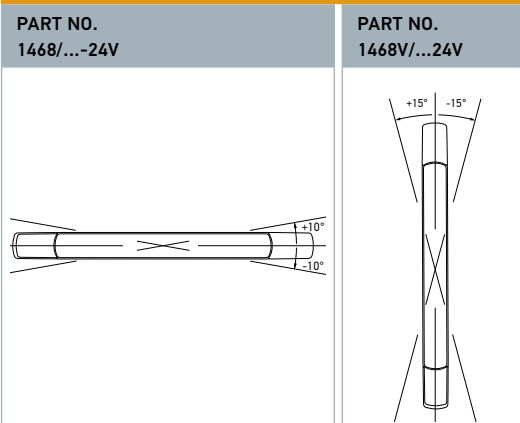
LED Reversing Lamp – Surface Mount

Surface mount LED reversing lamp. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Ultra slim height of only 11mm. Lamp shown active.

MOUNTING DIAGRAMS



Horizontal mount: +/- 10° rotation around lamp (and vehicle) axis

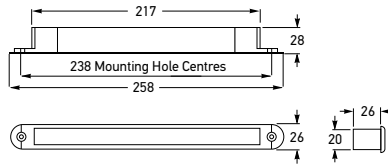
Vertical mount: +/- 15° rotation around lamp (and vehicle) axis



1468BL

LED Stop/Rear Position Lamp

Red LED strip lamp suitable for coaches and buses, featuring Enhanced Definition Technology (EDT).



2334	2SB 959 074-501	12 VOLT DC
2334-24V	2SB 959 074-001	24 VOLT DC
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	Stop: 2W Rear position: 0.3W	
Protection	Reverse polarity protection	
Cable Length	Pre-wired with 300mm of cable	
Spare Part	9.5243.05	Gasket
Compliance	ADR 49/00	

LED Rear Direction Indicator Lamp

Amber LED strip lamp suitable for coaches and buses.



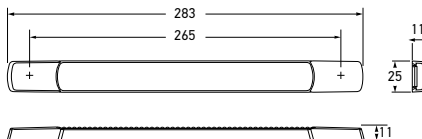
2156	2BA 959 075-501	12 VOLT DC
2156-24V	2BA 959 075-001	24 VOLT DC
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable	
Spare Part	9.5243.05	Gasket
Compliance	ADR 6/00: Cat 2a	

LED High Level Brake Lamp

Strip LED lamp designed for rear spoiler applications.



5243	2DA 959 071-591	12 VOLT DC
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Spare Part	9.5243.05	Gasket
Compliance	ADR 49/00: Cat S3	02 7547 ECE R7/02



5245	2DA 980 887-301	12 VOLT DC
5245-24V	2DA 980 887-401	24 VOLT DC
Mounting	Suitable for horizontal or vertical mounting	
Power Consumption	3W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Accessories	9.2652.09 White screw caps (Pack of 4) 9.1009.09 Charcoal screw caps (Pack of 4) 9.1009.10 Chrome plated screw caps (Pack of 4)	
Compliance	ADR 49/00: Cat S3	E24 02 0087 ECE R7/02

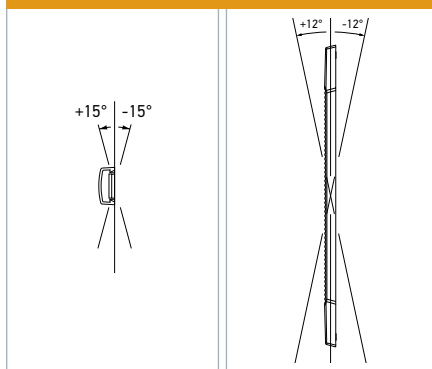
LED Centre High Level Brake Lamp – Surface Mount

Surface mount LED high level brake lamp that is designed with an ultra wide visibility optic to suit a wide range of mounting positions and angles. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.

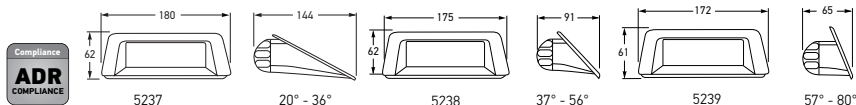


Ultra slim height of only 11mm. Lamp shown active.

MOUNTING DIAGRAMS



Horizontal mount: +/- 15° tilt (up/down) Vertical mount: +/- 12° tilt (up/down)



5237	2DA 959 190-001 – Coupe	20° - 36°	12 VOLT DC
5238	2DA 959 191-001 – Sedan	37° - 56°	
5239	2DA 959 192-001 – Wagon	57° - 80°	
Mounting	Adhesive mounting tape. Window angles for Coupe are 20° - 36°, Sedan 37° - 56° and Wagon 57° - 80°		
Voltage	12V DC		
Power Consumption	3W		
Cable Length	Pre-wired with 2.5m of multi-core cable		
Compliance	ADR 49/00: Cat S3		

LED Centre High Level Brake Lamp

Designed for rear windows of angles from 20° (Coupe) to 80° (Wagon). Supplied with installation kit and instruction sheet. Optic appears clear until illuminated.



5237 Shown illuminated



5238

5239

