



BRIEF INFORMATION

Full-LED truck rear combination lamp

2VD / 2VP 012 381-xxx

- All functions in LED for heavy-duty requirements
- Replaceable, non-patterned lens
- Innovative direction indicator thanks to dynamic flasher

PRODUCT FEATURES

Details / benefits:

- The lens is replaceable as it is not glued to the housing
- Curved outer lens for optimum leak-tightness
- Lower storage costs because the left and right lenses are identical
- Lower maintenance costs thanks to efficient LED technology
- Modularisation and night signature permit a high degree of individuality
- Including failure monitor for direction indicator as per ISO 13207

Contribution to environmental protection:

- 88 % lower power consumption in comparison to bulbs
- Savings of approx. 80 kg CO₂ per year

Variants:

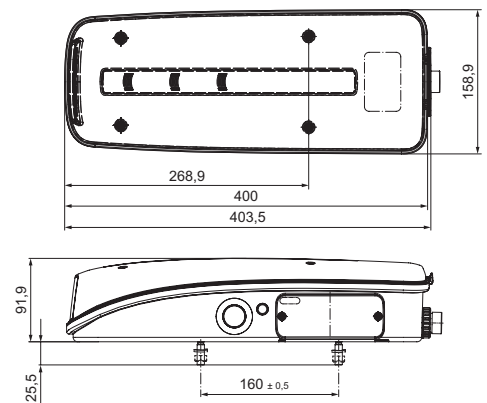
- Available with backup alarm
- Optionally with 152 mm or 160 mm spacing of mounting screws
- HDSCS connector, 8-pin or DIN 7-pin
- Plug connection at the side as standard, rear position available on request
- Available with licence plate light, illumination for 520 x 120 mm licence plates
- Innovative direction indicator, optionally with dynamic flasher

TECHNICAL DETAILS

Technical data

Specification	HELLA norm 67101 HD truck (Class 6.1) MAN HD truck norm	
Lamp dimensions (L x W x H)	400 x 160 x 88 mm	
Operating temperature	- 40 °C to max. 65 °C	
IP protection class	IP 5K4K, IP X9K	
Mounting	Stud M 8 x 48.5 mm	
Operating voltage	24 V	
Type approvals	ECE-R48	
	MAN: 5884	
	DAF: 5893	
	Buzzer: 7419	
	GGVS (Carriage of Dangerous Goods by Road - Germany)/ ADR	
Functions	Tail light	12 LEDs / 2.8 W
	Stop light	18 LEDs / 2.2 W
	Direction indicator	6 LEDs / 4.2 W
	Rear fog light	8 LEDs / 2.5 W
	Backup light	4 LEDs / 4.7 W
	Side marker light	5 LEDs / 2.8 W
	Licence plate light	3 LEDs / 1.7 W

Dimensional sketch



- 1 Side marker light
- 2 Clearance light
- 3 Direction indicator

- 4 Stop light
- 5 Tail light
- 6 Backup light

- 7 Licence plate light
- 8 Reflex reflector
- 9 Rear fog light

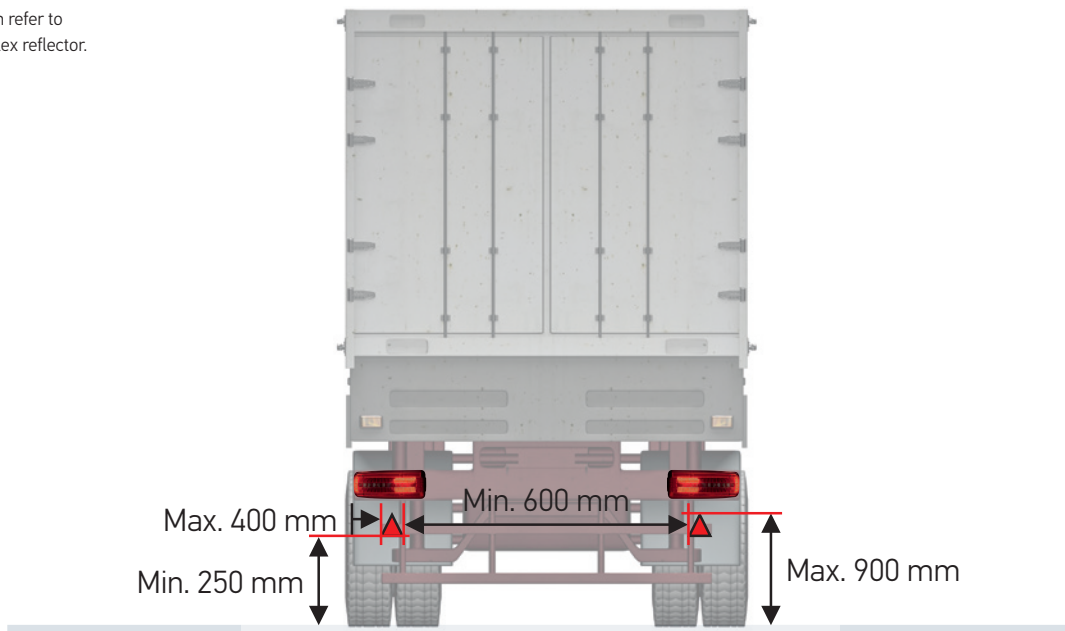
RETROFITTING THE TRAILER

Requirements for potential retrofitting:

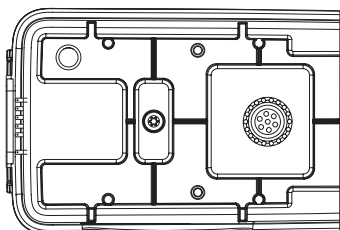
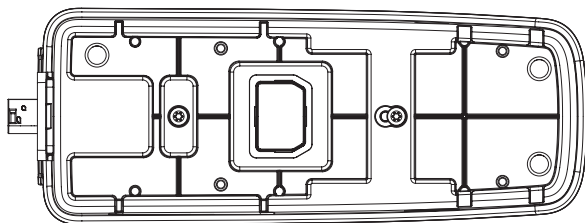
- The flash impulse as per ISO 13207 must be able to be read out
- Other suitable devices for indicator failure control 24 V: 5DS 009 552-047 / -037
- The space between the tail light function and the outer edge of the vehicle is only permitted to be a maximum of 400 mm
- In addition, a triangular reflex reflector has to be fixed on each side of the trailer
- The tip of the triangle must point upwards
- Please observe mounting instructions for the clearance lights in accordance with ECE R48

APPLICATION EXAMPLE

Dimensions given refer to the triangular reflex reflector.

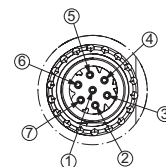
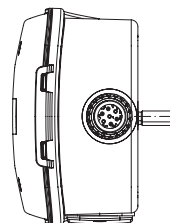


Housing



DIN bayonet connector, 7-pin

For variant: -011, -021, -051, -061, -311, -321, -341, -351, -361, -381
Mating connector: AMP 967650-1



Pin assignment

1	Ground (white)
2	Tail light (black)
3	Backup light (pink)
4	Direction indicator (yellow/green)
5	Stop light (red)
6	Rear fog light (blue)
7	Vacant or backup alarm (...)

PRODUCT CHARACTERISTICS OF THE CUSTOMER-SPECIFIC MAN AND DAF LAMPS

Thanks to the use of different glowing-body optics and additional differentiation by means of the exclusive styling of the reflectors – i.e. either partly metallic or fully metallic – the lamps have a very distinct, innovative and yet homogeneous appearance.

Requirements for potential retrofitting:

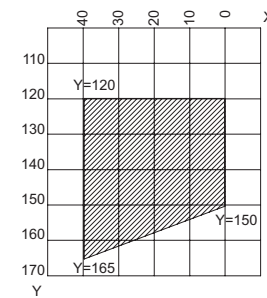
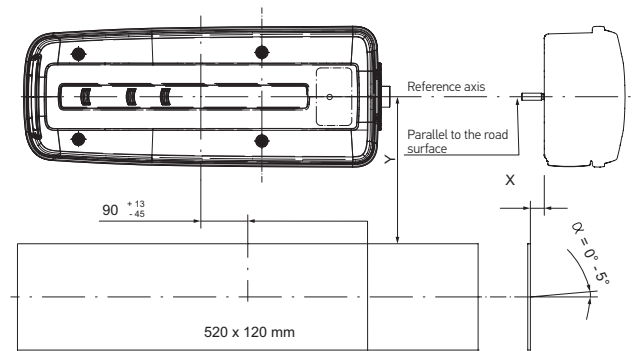
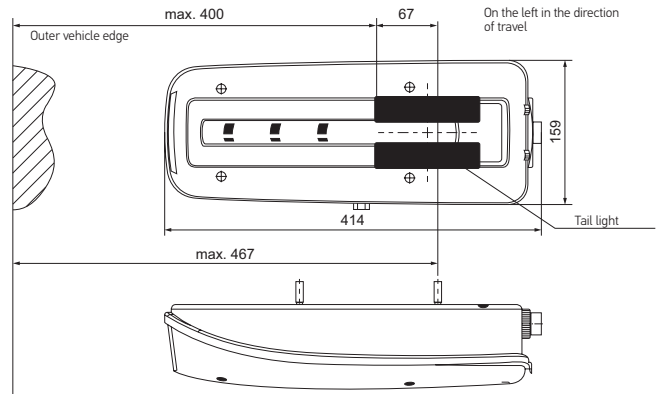
- The flash impulse as per ISO 13207 must be able to be read out
- Additional utilisable devices for flasher failure monitoring
24 V: 4DW 009 492-001 / -011; 5DS 009 602-001 / -011
- The space between the tail light function and the outer edge of the vehicle must not exceed 400 mm
- The power consumption of the LEDs (see "Technical data") must be taken into account
- For the licence plate lighting, the mounting geometry must be complied with* (additional mounting positions available on request)

Retrofitting of the MAN and DAF lamp (left and right in the set) is possible for the following vehicles:

MAN: For all TGX, TGM and TGL model series as of January 2014 (new parameter set required in the central on-board computer (ZBR))

DAF: For all vehicles:
From CW 33 / 2009 to CW 12 / 2012:
Euro 5 vehicles with DIN connector
From CW 13 / 2012:
Euro 6 vehicles (software update required)

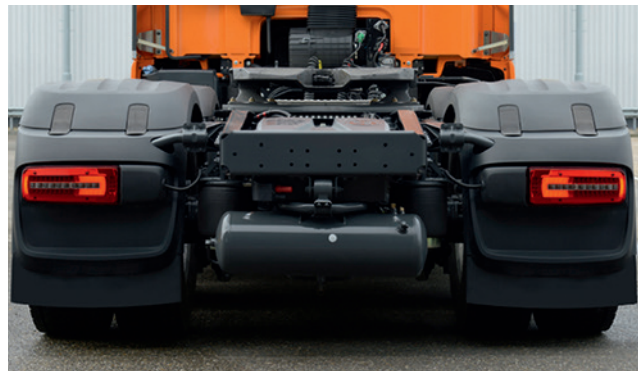
* Definition of the mounting geometry for licence plate light



APPLICATION EXAMPLES



MAN



DAF

RANGE OVERVIEW



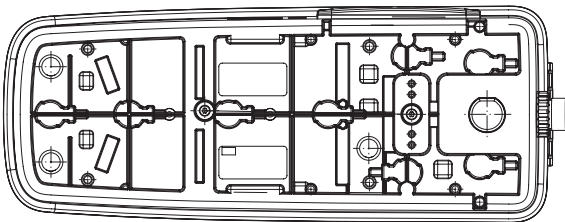
MAN



DAF

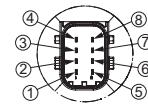
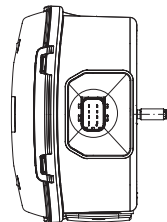
	Part number 012 381	-011	-021	-031	-041	-051	-061	-081	-211	-221	-241	-251	-261	-281	-311	-321	-341	-351	-361	-381
Side	Left	X	-	X	-	X	-	-	X	-	-	X	-	-	X	-	-	X	-	-
	Right	-	X	-	X	-	X	X	-	X	X	-	X	X	-	X	X	-	X	X
Hole pattern	160 mm	-	-	-	-	-	-	-	X	X	X	X	X	X	-	-	-	-	-	-
	152 mm	X	X	X	X	X	X	X	-	-	-	-	-	-	X	X	X	X	X	X
DIN (bayonet)	Side	X	X	-	-	X	X	-	-	-	-	-	-	-	X	X	X	-	-	-
	Rear centre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X
HDSCS	Side	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-
	Rear centre	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-
Harness assembly	External harness assembly 500 mm	-	-	X	X	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
	Glowing body strip optics	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-
Reflector	Fully metallic	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X
	Partly metallic	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-
Direction indicator	Standard	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-
	Dynamic direction indicator	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X
Backup alarm	Integrated	-	-	-	-	-	X	X	-	-	X	-	-	X	-	-	X	-	-	X
Licence plate light	Integrated	X	-	X	-	-	-	-	X	-	-	X	-	-	X	-	-	X	-	-
Replacement lens	9EL 208 551-011	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-
	9EL 208 551-001	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X

MAN housing

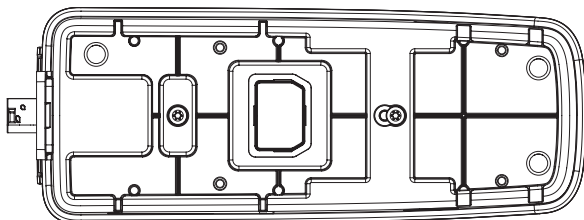


HDSCS connector, 8-pin

For variant: -211, -221, -241, -251, -261, -281
Mating connector: AMP 1-1418479-1



DAF housing



Pin assignment

1	Ground (white)
2	Vacant or backup alarm (black)
3	Vacant (...)
4	Rear fog light (blue)
5	Tail light (black)
6	Backup light (pink)
7	Direction indicator (yellow/green)
8	Stop light (red)

TECHNICAL INNOVATIONS

Outer lens:

For the first time on a full-LED lamp, the outer lens is no longer fixed and glued to the housing. This means that it is no longer necessary to replace the entire lamp in the event of minor mechanical damage to the lens, which in turn leads to a considerable saving in costs. In the event of damage, the lens assembly (including seal and screws) can be obtained through the aftermarket and replaced.

Dynamic direction indicator:

Innovative appearance thanks to a dynamic direction indicator. The dynamic flasher, first applied to series-production, premium-class passenger cars in 2013, no longer performs the flasher function using a surface area indicator, but rather with a running light function. The new look dynamic flasher underlines the modern and stylish appearance of the lamp in conjunction with its glowing body optics. The striking, modern full-LED rear combination lamp therefore provides vehicles with an unmistakable signature when driving by day or by night.

APPLICATION EXAMPLE FOR DYNAMIC DIRECTION INDICATOR



1



2



3



4



5



6

For further information see:



www.youtube.com/watch?v=2PmNqET42tU