

ELPARTS



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LEDs'inno

Smart Lighting System



Passt immer!

 **HERTH+BUSS**

The specialist in vehicle electrics!

With our Elparts range we offer a comprehensive product spectrum that meets any requirement, from automobiles to commercial vehicles. This is our professional workshop solution and that's why we're always first choice.

Our services for you:

- over 6,200 universal parts
- over 3,000 vehicle-specific parts with 666,000 vehicle links
- comprehensive range for all vehicle types
- exactly fitting parts allocation
- professional solutions thanks to over 90 years of experience

Passt immer!



ELECTRICS

Signal devices



Signal units



Relays



Control units



Switches



Actuators+Sensors



Voltage transformers



Inverter



Alternators+Starters



Wash water pump



Ignition system



INSTALLATION

Connectors



Attachment parts



Cable straps



Gaskets+Grommets



Insulating tape



Hoses+Pipes



Cables+
Cable connections



Battery accessories



Plug housings



Fuses



Plugs+Sockets



Assortments



TOOLS

Release tools



Pliers



Service+Diagnostics



Measuring technology



Battery management



Processing+Installation



Workshop lamps



LIGHTING

Daytime running lights



Headlights



Lights



Reflectors



Warning equipment



Connection sets



(Lamp) sockets



Bulbs



ELPARTS





Smart Lighting System LEDs'inno

Smart trailer lighting system in the Elparts product range

For decades now, we have been offering high-quality vehicle parts to independent workshops. These are accompanied by premium service and practical repair solutions. LEDs'inno – the most recent addition to the range – is no exception. True to our reputation as a parts expert, we have been offering an innovative lighting system for a while now that is also of interest to vehicle manufacturers. It initially comprises around 70 products, although this number is increasing.

What is LEDs'inno?

LEDs'inno is a smart LED trailer lighting system with a wide spectrum of potential applications. Whether trailers for cars, HGVs, agricultural or construction machinery, not to mention a variety of special-purpose vehicles: the smart lighting system can be used in any of these for practically any purpose. Combination lights were subsequently optimised for four different areas of application, with these areas being divided between LEDs'inno 1-4. An additional bonus is that the smart lighting system can be custom-configured. One example from the class O2 range – the rotating beacon and the side marker lights for agricultural trailers which are also contained in the comprehensive range of accessories.

What makes the lighting system "smart"?

The combination lights for the various areas of application feature an integrated identifier. This means that the lights send signals through the system and therefore ensure that the lights that are connected are detected fully automatically.

A distributor box integrated into every light facilitates the quick and easy plug&play connection of additional lights, such as side marker lights or tail lights.

What's more, two further optional plug&play distributor boxes are available. These enable the cables of the connected tail lights to be dispersed or merged at a central point in the trailer. Cabling is quick and tidy to install – not to mention free of corrosion. Workshops will be pleased to learn that the system's installation will help them save a considerable amount of time.

Open cables are avoided with this system and no specialist knowledge is required – the name "plug&play" is a dead give-away! The practical T-nut installation system allows the lights to be mounted easily. It is compatible with the majority of light fixtures: simply select the appropriate screw/stud, align the light with the fixture, tighten it and the job's done.

The newly added products and the comprehensive range of accessories leave nothing at all to be desired. The system components range from multifunction, rear, side marker and clearance lights to mounting brackets, marker lights and licence plate lighting, position lights, junction/distributor boxes and cable connectors.

To round things off, it goes without saying that LEDs'inno fulfils all of the requisite approval criteria (EMC-R 10, ECE-R 65, ECE-R 48 and EMC). The highest protection class IP69K (dust-tight and protection against high-pressure water jets) for the entire lighting system guarantees a long-lasting service life. The benefits of LED lighting guarantee a useful life that is 20 times longer than conventional lights. Such lighting is thus resistant to impacts and vibration, reduces maintenance costs, minimises energy consumption and is also synonymous with high reliability.

Mounting specifications

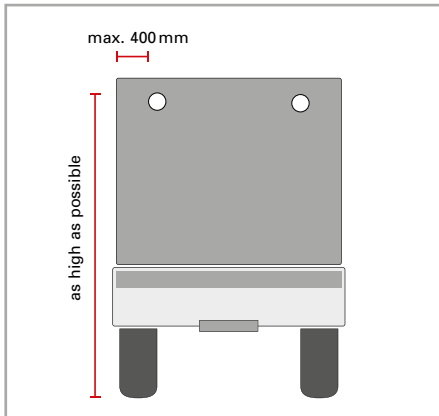
The following pages contain a rough overview of the legal mounting specifications, which are indispensable when retrofitting equipment to vehicles. The extracts concerned are taken from regulation ECE-R 48, which concerns the mounting of front, side and combination rearlights. In this regulation, precise specifications are given as to which lights are **compulsory by law** and which are **permissible**.

Furthermore, additional information on the various signal lights is also recorded in the corresponding test numbers of the German Federal Motor Transport Authority (KBA).

These include the following:

- ECE-R 3 (reflex reflector)
- ECE-R 4 (licence plate light)
- ECE-R 6 (front, rear and side turn signals)
- ECE-R 7 (outline, tail, stop and clearance light)
- ECE-R 23 (reversing light)
- ECE-R 38 (rear fog light)
- ECE-R 77 (front and rear parklights)
- ECE-R 87 (daytime running lights)
- ECE-R 104 (reflective markings)

Front clearance light



Mounting:

Quantity:

Colour:

Geom. view angle:

Other specifications:

Compulsory for trailers with a width of >2.1 m

Permissible for trailers with a width of 1.8 m to 2.1 m

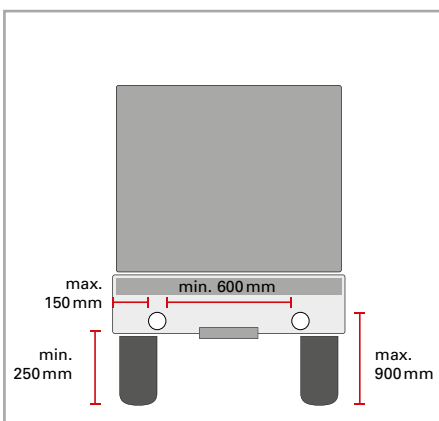
2

White

Horizontal 80° pointing outwards; vertical 5° above and 20° below the horizontal lines

The front white and rear red clearance lights may be condensed into one single light, although the mounting specifications and view angle ranges must be adhered to. Any outline light or combined outline/reflex reflector light can be used. Additional reflective media are permitted.

Front reflex reflector



Mounting:

Quantity:

Colour:

Shape:

Geom. view angle:

Other specifications:

Compulsory for all trailers

2

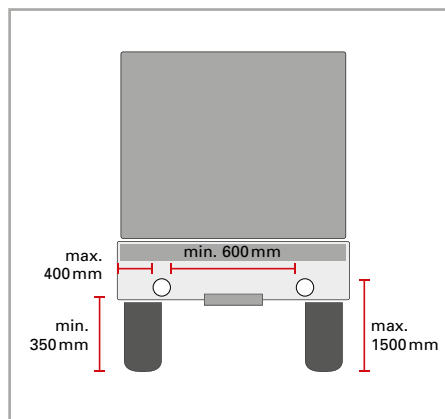
White

Non-triangular

Horizontal 10° pointing inwards and 30° pointing outwards; vertical $\pm 10^\circ$, but 5° pointing downwards with a mounting height of < 750 mm

The illuminating area of the reflex reflector may be integrated into the outline light. The mounting height of the reflex reflector must be observed in this case!

Front outline light



Mounting:

Quantity:

Colour:

Geom. view angle:

Other specifications:

Compulsory for trailers with a width of > 1.6 m
Permissible for trailers with a width of ≤ 1.6 m

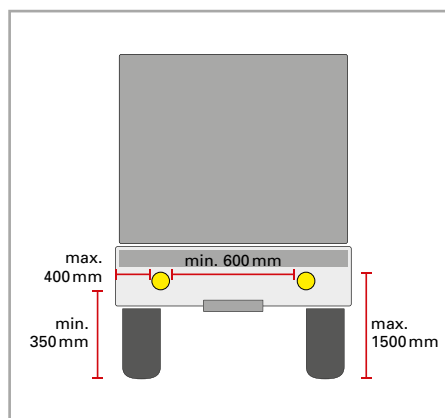
2

White

Horizontal 5° pointing inwards and 80° pointing outwards;
vertical $\pm 15^\circ$, but 5° pointing downwards with a mounting
height of < 750 mm

The illuminating area of the reflex reflector may be integrated
into the outline light. The mounting height of the reflex reflec-
tor must be observed in this case!

Rear turn signal (indicator)



Mounting:

Quantity:

Colour:

Geom. view angle:

Please note:

Compulsory for all trailers in category 2a or 2b

2

Yellow

Horizontal 45° inwards, up to 80° outwards; vertical $\pm 15^\circ$,
but 5° pointing downwards with a mounting height of < 750 mm

Category 2a:

1 luminous intensity level = lighting value min. 50 cd

Category 2b:

2 luminous intensity level = lighting value (day) min. 175 cd,
lighting value (night) min. 40 cd

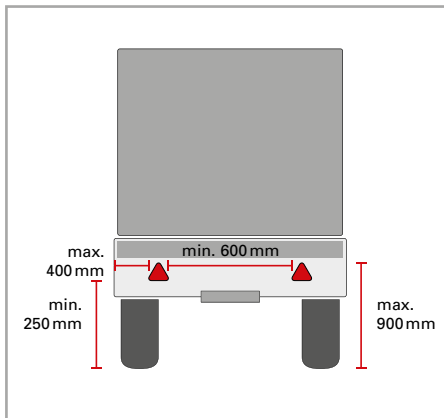
» TRAILER CLASSES

With regard to statutory specifications for mounting front, side and combination rearlights, vehicle trailers are sub-divided into different "O" classes. Here, the class is determined by the weight of the trailer.

O1	Trailers up to 0,75 t
O2	Trailers from 0,75 t to 3,5 t
O3	Trailers from 3,5 t to 10 t
O4	Trailers over 10 t



Rear reflex reflector

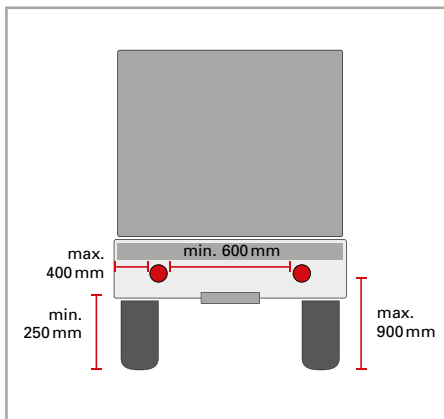


Mounting:
Quantity:
Colour:
Shape:
Mounting arrangement:
Geom. view angle:

Other specifications:

Compulsory for all trailers
 2
 Red
 Triangular
 The tip of the triangle must be aligned to point upwards.
 Horizontal $\pm 30^\circ$; vertical $\pm 15^\circ$, but 5° pointing downwards with a mounting height of < 750 mm
 It is permissible to mount a combination rearlight with an integrated, rectangular reflex reflector. Additional reflective media are permitted.

Tail light

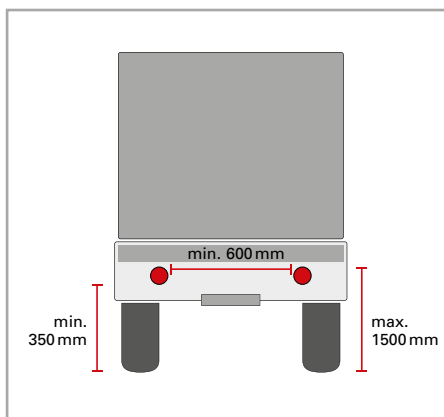


Mounting:
Quantity:
Colour:
Mounting height of the additional tail lights:
Geom. view angle:

Other specifications:

Compulsory for all trailers
 2
 Red
 Min. 600 mm above the compulsory tail lights
 Horizontal 45° inwards, up to 80° outwards; vertical $\pm 15^\circ$, but 5° pointing downwards with a mounting height of < 750 mm
 Even if clearance lights are mounted, two additional outline and tail lights can be mounted on all trailers from classes O2, O3 and O4.

Stop light



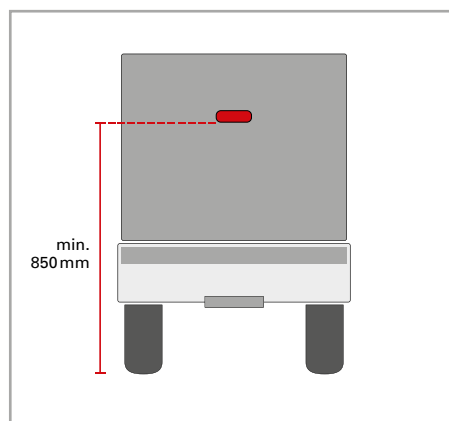
Mounting:
Quantity:
Colour:
Mounting height for additional stop lights:
Geom. view angle:

Other specifications:

Please note:

Compulsory for all trailers in category S1 or S2
 2 (If S3 stop lights are mounted, two additional S1 or S2 stop lights may be mounted on vehicles from classes O2, O3 and O4).
 Red
 Min. 600 mm above the compulsory stop lights
 Horizontal $\pm 45^\circ$; vertical $\pm 15^\circ$, but 5° pointing downwards with a mounting height of < 750 mm
 The clearance between the S1 or S2 stop light and the rear fog light must be greater than 100 mm.
 Category S1:
 1 luminous intensity level = lighting value min. 60 cd
 Category S2:
 2 luminous intensity level = lighting value (day) min. 130 cd,
 lighting value (night) min. 30 cd

Raised stop light



Quantity:

1

Exception: Longitudinal median plane does not pass through a solid mounting wall and no space is available for an S3 stop light. In this case, two type "D" S3 stop lights may be installed, or one S3 stop light may be mounted to the left or right of the longitudinal median plane.

Colour:

Red

Mounting width:

The reference point must lie along the longitudinal median plane. If two S3 stop lights are mounted, each of these must be mounted as close as possible to the longitudinal median plane. If only one S3 stop light is mounted alongside the longitudinal median plane, the clearance from the latter must not be greater than 150 mm.

Geom. view angle:

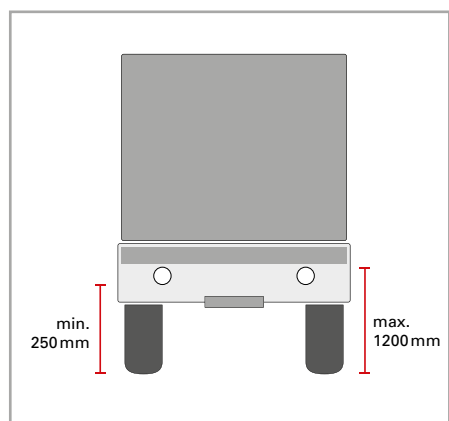
Horizontal $\pm 10^\circ$; vertical 10° above and 5° below the horizontal lines

Please note:

S3 (raised stop light) = lighting value min. 25cd, max. 80cd

S3 (type "D" twin light): = min. 25cd, max. 55cd

Reversing light



Mounting:

Compulsory for all trailers in classes O2, O3 and O4

Permissible for trailers in class O1

Quantity:

1 unit compulsory; second reversing light permissible for trailers with a length of < 6 m

2 units compulsory for trailers with a length of > 6 m and 2 additional units are permissible on all other trailers

Colour:

White

Mounting width:

No specification

Geom. view angle:

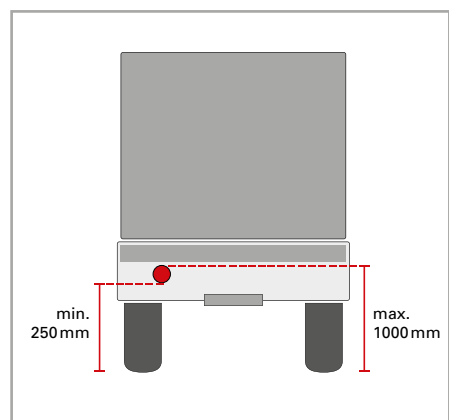
With one light: Horizontal $\pm 45^\circ$

With two lights: Horizontal 30° inwards, up to 45° outwards; vertical 15° upwards, up to 5° downwards

Other specifications:

It is possible to mount the additional reversing lights on the rear or side of the vehicle.

Rear fog light



Mounting:

Compulsory for all trailers

Quantity:

1 or 2

Colour:

Red

Mounting width:

No specification

Mounting in general:

Mounting a rear fog light:

Left of centre for right-hand traffic

Right of centre for left-hand traffic

Mounting in the centre is permissible

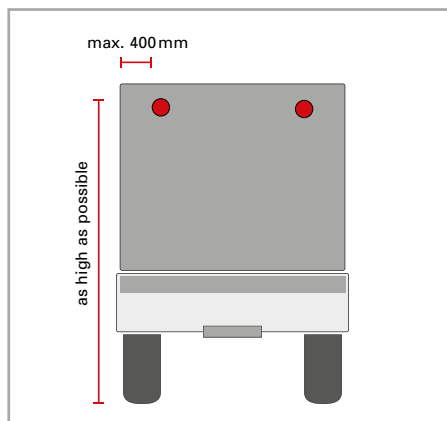
Geom. view angle:

Horizontal $\pm 25^\circ$; vertical $\pm 5^\circ$

Other specifications:

The clearance from the stop light must be greater than 100 mm.

Rear clearance light



Mounting:

Compulsory for all trailers with a width of >2.1 m
Permissible for trailers with a width of 1.8 m to 2.1 m
2

Quantity:

Red

Colour:

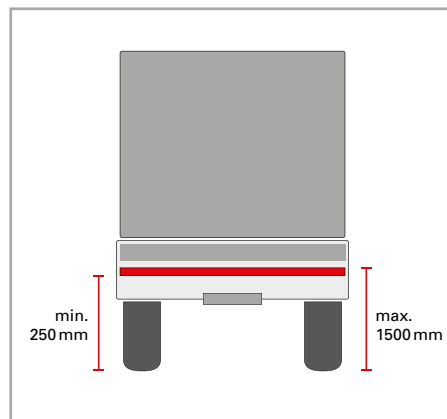
Geom. view angle:

Horizontal 80° pointing outwards; vertical 5° above and 20° below the horizontal lines

Other specifications:

The rear red and front white clearance lights may be condensed into one single light, provided the mounting specifications and view angle ranges are adhered to. The clearance between the clearance light and the tail light must be min. 200 mm. Any tail light or combined tail light/reflex reflector light may be used. Additional reflective media are permitted.

Rearward-facing reflective strips and contour marking (ECE-R 104)



Mounting:

Permissible for all trailers

Mounting arrangement:

Reflective marking materials may comprise one part or several parts

Width:

50 mm +10/-0 mm (compulsory)

Minimum length of section:

An approval marking (at intervals of 0.5 m) must be visible.

Colour:

Red, facing rearwards

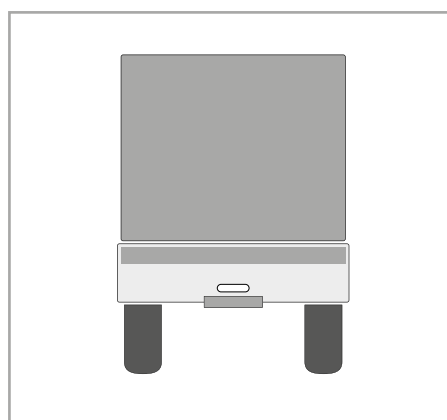
Longitudinal mounting:

Mounting across the entire width (at least 80%) of the trailer. For discontinuous strips, clearance between the individual sections as small as possible (not more than 50% of the length of the shortest section).

Other specifications:

The clearance between the retroreflective marking material on the rear of a vehicle and each compulsory stop light must be greater than 200 mm.

Licence plate light



Mounting:

Compulsory for all trailers

Quantity:

1 or more

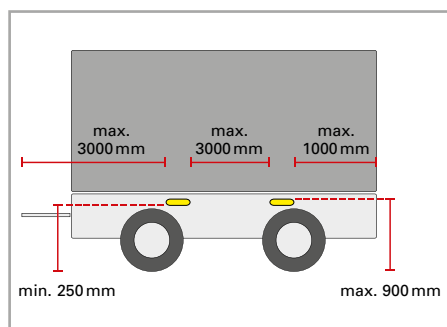
Colour:

White

Mounting the licence plate:

In the centre or on the left (or right for left-hand traffic)

Side reflex reflector



Mounting:

Quantity:

Colour:

Shape:

Geom. view angle:

Other specifications:

Compulsory for all trailers

Min. 1 in the central third

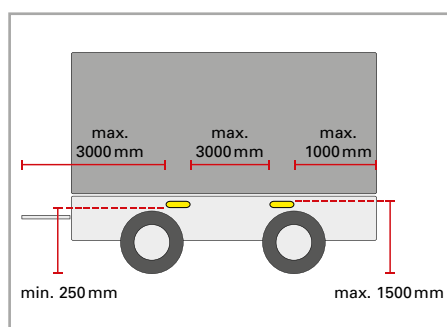
Yellow

Non-triangular

Horizontal $\pm 45^\circ$; vertical $\pm 10^\circ$, but 5° downwards for a mounting height of < 750 mm

The illuminating area of the reflex reflector may be integrated into the side marker light. The maximum mounting height of the reflex reflector must be observed in this case.

Side marker light (SM1)



Mounting:

Quantity:

Colour:

Longitudinal mounting:

Geom. view angle:

Other specifications:

Please note:

Compulsory for trailers with a length of > 6 m

Permissible for trailers with a length of < 6 m

Min. 1 in the central third

Front yellow, rear yellow (red is also possible in combination with a combination rearlight)

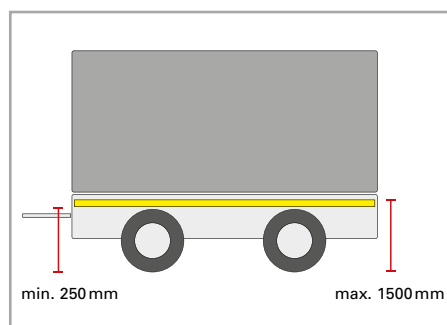
Max. 3 m from the front (including drawbar), max. 1 m from the rear, max. 3 m between the individual side marker lights (exception: 4 m)

Horizontal $\pm 45^\circ$; vertical $\pm 10^\circ$, but also 5° downwards for a mounting height of < 750 mm

The illuminating area of the reflex reflector may be integrated into the side marker light. The mounting height of the reflex reflector must be observed.

SM1 light (lighting values min. 4cd) is used in all vehicle classes.

Side-facing reflective strips and contour marking (ECE-R 104)



Mounting:

Mounting arrangement:

Width:

Minimum length of section: An approval marking (at intervals of 0.5 m) must be visible.

Colour:

Longitudinal mounting:

Permissible for all trailers

Reflective marking materials may comprise one part or several parts

50 mm $+10/-0$ mm (compulsory)

White or yellow

Mounting along the entire length (at least 80%) of the trailer. For discontinuous strips, clearance between the individual sections as small as possible (not more than 50% of the length of the shortest section).

» IP CODE

Overview of IP-Code components (extract)

The protection categories are indicated by an abbreviation which is comprised of the letters IP (International Protection) which always remain the same, followed by two code numbers which represent the degree of protection.

The first code number represents the degree of protection against contact and foreign bodies, and the second represents the degree of protection against damage caused by water penetration.

First no.	Level of protection against touch	Level of protection against intrusion of foreign bodies	Second no.	Level of protection against water penetration
0	not protected	not protected	0	not protected
1	back of hand	object with Ø over 50 mm	1	vertical droplets
2	finger	object with Ø over 12,5 mm	2	droplets at 15° tilt
3	tools	object with Ø over 2,5 mm	3	spraying water
4	thin wire	object with Ø over 1 mm	4	splashing water
5	thin wire	dust-protected	4K	splashing water, at high pressure, only for road vehicles
6	complete	dust-tight	5	water jets
X	not checked	not checked	6	powerful water jets
			6K	powerful water jets, at high pressure (flooding), only for road vehicles
			7	temporary submersion
			8	continuous submersion
			9K	for pressure/steam jet cleaning, only for road vehicles, for use with end cap

Example: IP-Code 65

First code number 6 = complete touch protection and dust-protected

Second code number 5 = protected against water jets



All the benefits at a glance

- four combination lights optimised for different applications
- one “identifier” integrated into every light (communicates the function of the light to the system, e.g. stop light, tail light, indicator, etc.)
- an optional “plug & play” junction box (for distributing/merging the cables belonging to the connected lights at a central point in the trailer to avoid open-ended cables. No specialist knowledge is required for this.)
- waterproof (IP69K) LEDs in no “plug & play” cables in various lengths
 - avoids damage caused by incorrect assignment/reconnection
 - no specialist knowledge required
 - quick and neat mounting
 - corrosion-free
 - very simple harness design
- EMC-R 10, ECE-R 65, ECE-R 48, EMC
- junction box integrated into every light (“plug & play” connection of additional lights)
- extensive accessories
 - side marker lights
 - clearance lights
 - mounting supports
 - outline lights
 - licence plate light
 - etc.
- a T-slot mounting system (can be freely positioned along the T-slot and compatible with most light bases)





drive!

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We've joined the bloggers!

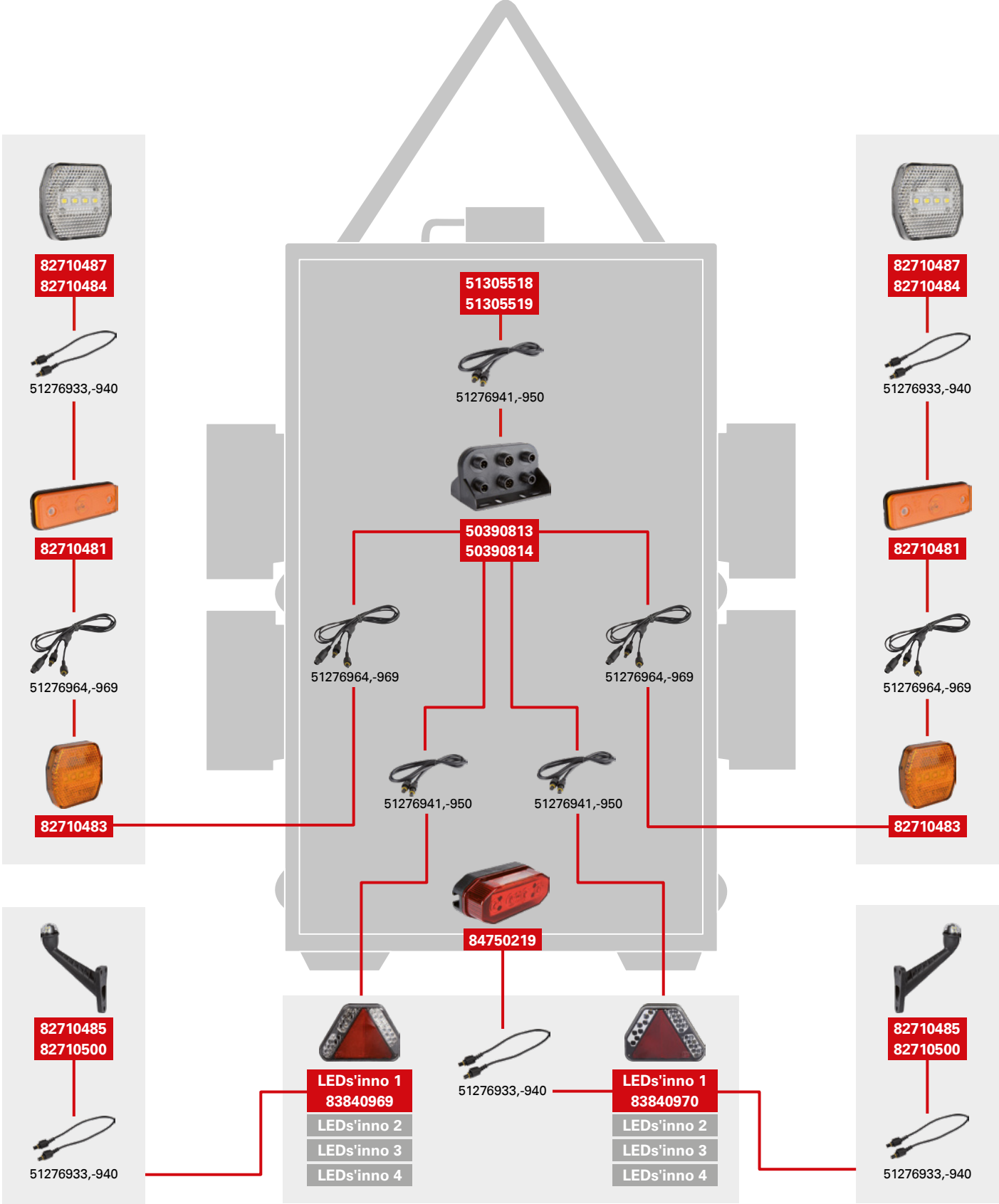
Stay permanently up to speed and discover more about us and our staff. Our reporting across four fascinating categories is always up to the minute and offers a sneak peek behind the scenes.

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Application example

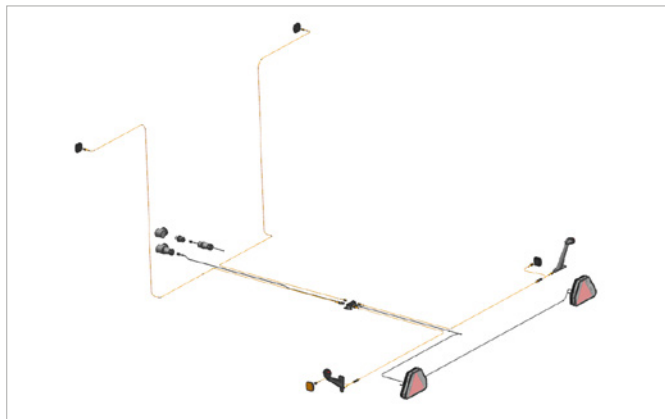
A sample application using items from the LEDs'inno system with optional cable junction box on a trailer from class O1.



LEDs'inno-1

LEDs'inno 1 lights are suitable for vehicles/trailers in class O1. The trailers concerned are up to 0.75 t in weight, e.g. home and garden trailers in addition to motorcycle and jet ski trailers. Exclusively 12 V voltage.

	83840969	83840970	83840971	83840972
Left indicator	■		■	
Right indicator		■		■
Number of functions	6	6	6	5
Stop light	■	■	■	■
Taillight	■	■	■	■
Rear fog light	■		■	
Reverse light		■		■
Number plate light (side)	■	■		
Number plate light (bottom)			■	
Reflex reflector (triangular)	■	■	■	■



Example for a small trailer with junction box

LEDs'inno-1

Combination Rearlight

LED

WxHxD: 204 x 147 x 38 mm
Bolt Distance: 132 mm
 164 mm
IP-Code: IP69K
Light Function: with brake light (LED)
 with taillight (LED)
 with indicator (LED)
 with reflex reflector (triangular)



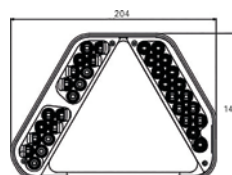
83840969

83840971



83840970

83840972



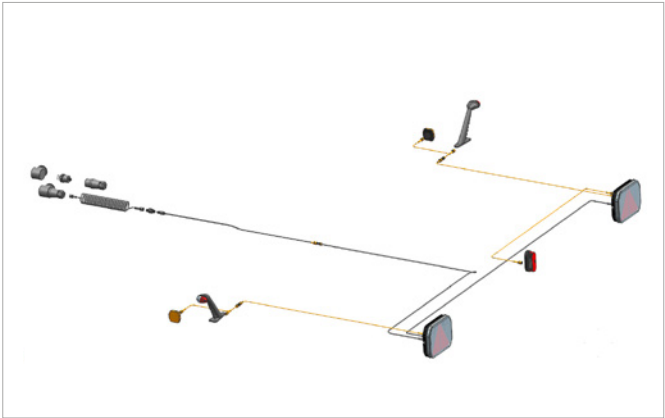
Mounting	Voltage V	Fitting Position	Light Function		Connector	DU	Article no.
mounting LEDs'inno P&P	12	Left	with rear fog light (LED) with number plate lamp (bottom)			1	83840971
			with rear fog light (LED) with number plate lamp (side)			1	83840969
		Right	with reverse light (LED)			1	83840972
			with reverse light (LED) with number plate lamp (side)			1	83840970
Accessories		Light Function	Cable Length mm	see	only for	DU	
Connecting Cable, light LEDs'inno			350	Page 26	83840971 83840972	1	51276941
			1200	Page 26		1	51276942
			1500	Page 26	1	51276943	
			2000	Page 26	83840971 83840972	1	51276944
			2500	Page 26		1	51276945
			3000	Page 26		1	51276946
			6000	Page 26		1	51276949
Connecting Cable, light LEDs'inno			7000	Page 26		1	51276950
			4000	Page 26		1	51276947
Control Unit, lights		for taillight (LED) for brake light (LED) for rear fog light (LED) for reverse light (LED) for indicator (LED)		Page 38		1	76121254
				Page 38			1
Control Unit, lights LED-Adapt				Page 39		1	76121252

**For more cables,
see page 26+27!**

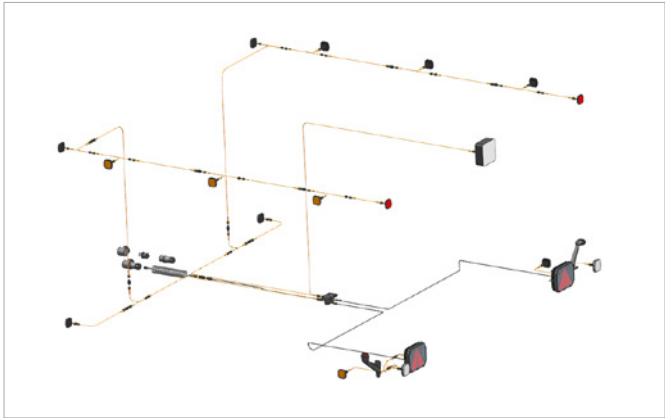
LEDs'inno-2

LEDs'inno 2 lights correspond to vehicles/trailers in class O2 with a total weight of between 0.75 t and 3.5 t. These may be classic boat and car trailers or horse boxes/machinery transporters. For these, the voltage compatibility ranges from 10 to 30 V and helps ensure operational safety in the event of voltage fluctuations.

	83840973	83840974	83840979	83840976	83840975	83840978	83840977
Left indicator	■		■		■		■
Right indicator		■		■		■	
Number of functions	7	7	7	6	6	5	5
Stop light	■	■	■	■	■	■	■
Taillight	■	■	■	■	■	■	■
Rear fog light	■	■	■	■	■		■
Reverse light	■	■	■	■	■	■	
Number plate light (side)	■	■					
Number plate light (bottom)			■				
Reflex reflector (triangular)	■	■	■	■	■	■	■



Example for an agricultural trailer



Example for a horse box

LEDs'inno-2

Combination Rearlight

LED

WxHxD: 185 x 145 x 37 mm
Bolt Distance: 115 mm
 160 mm
IP-Code: IP69K
Light Function: with brake light (LED)
 with taillight (LED)
 with indicator (LED)
 with reflex reflector (triangular)



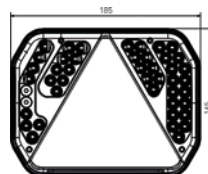
83840977 83840975 83840979

















83840973 83840976 83840974



83840978



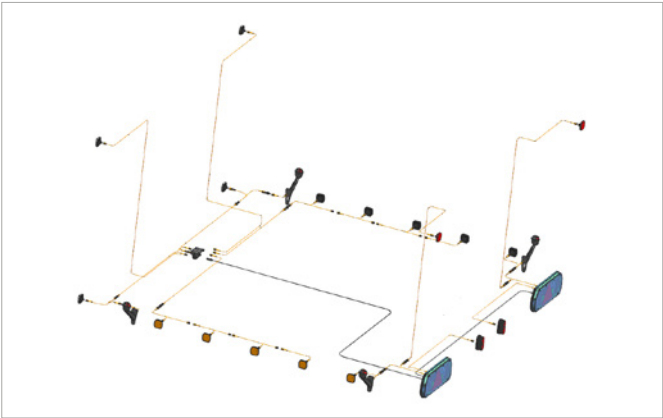
Mounting	Volt- age V	Fitting Position	Light Function	Connector	DU	Article no.
mounting LEDs'inno P&P	10 to 30	Left	with rear fog light (LED)	 	1	83840977
			with rear fog light (LED) with reverse light (LED)	 	1	83840975
			with rear fog light (LED) with reverse light (LED) with number plate lamp (bottom)	 	1	83840979
			with rear fog light (LED) with reverse light (LED) with number plate lamp (side)	 	1	83840973
		Right	with rear fog light (LED) with reverse light (LED)	 	1	83840976
			with rear fog light (LED) with reverse light (LED) with number plate lamp (side)	 	1	83840974
			with reverse light (LED)	 	1	83840978
Accessories		Light Function	Cable Length mm	see	DU	
Connecting Cable, light LEDs'inno			350	Page 26	1	51276941
			1200	Page 26	1	51276942
			1500	Page 26	1	51276943
			2000	Page 26	1	51276944
			2500	Page 26	1	51276945
			3000	Page 26	1	51276946
			6000	Page 26	1	51276949
Connecting Cable, light LEDs'inno			7000	Page 26	1	51276950
			4000	Page 26	1	51276947
Control Unit, lights				Katalog13	1	75614193
		for taillight (LED) for brake light (LED) for rear fog light (LED) for reverse light (LED) for indicator (LED)		Page 38	1	76121254
				Page 38	1	76121255
Control Unit, lights LED-Adapt		for indicator (LED) for reverse light (LED) for taillight (LED) for rear fog light (LED) for brake light (LED)		Page 39	1	76121253
		for taillight (LED) for brake light (LED) for rear fog light (LED) for reverse light (LED) for indicator (LED)		Page 39	1	76121252

**For more cables,
see page 26+27!**

LEDs'inno-3

LEDs'inno 3 lights cover vehicle/trailer classes O3/O4 with a total weight of over 3.5 t. These are usually HGV trailers, special transporters or agricultural machines. The voltage bandwidth is between 10 and 30 V in this case as well.

	83840980	83840981	83840982	83840983	83840984
Left indicator	■		■		■
Right indicator		■		■	
Number of functions	6	6	7	7	7
Stop light	■	■	■	■	■
Taillight	■	■	■	■	■
Rear fog light	■	■	■	■	■
Reverse light	■	■	■	■	■
Number plate light (side)			■	■	
Number plate light (bottom)					■
Reflex reflector (triangular)	■	■	■	■	■



Example for a special transporter

LEDs'inno-3

Combination Rearlight

LED

WxHxD: 376 x 152 x 35 mm
Bolt Distance: 155 mm
180 mm
IP-Code: IP69K
Light Function: with brake light (LED)
with taillight (LED)
with indicator (LED)
with rear fog light (LED)
with reverse light (LED)
with reflex reflector (triangular)



83840980



83840984



83840982








83840981



83840983

**For more cables,
see page 26+27!**



Mounting	Volt- age V	Fitting Position	Light Function	Connector	DU	Article no.	
mounting LEDs'inno P&P	10 to 30	Left			1	83840980	
			with number plate lamp (bottom)		1	83840984	
			with number plate lamp (side)		1	83840982	
		Right			1	83840981	
			with number plate lamp (side)		1	83840983	
Accessories		Light Function		Cable Length mm	see	DU	
Connecting Cable, light LEDs'inno				350	Page 26	1	51276941
				1500	Page 26	1	51276943
				2500	Page 26	1	51276945
				3000	Page 26	1	51276946
				6000	Page 26	1	51276949
				7000	Page 26	1	51276950
Connecting Cable, light LEDs'inno				4000	Page 26	1	51276947
Control Unit, lights					Katalog13	1	75614193
		for taillight (LED) for brake light (LED) for rear fog light (LED) for reverse light (LED) for indicator (LED)			Page 38	1	76121254
					Page 38	1	76121255
Control Unit, lights LED-Adapt		for indicator (LED) for reverse light (LED) for taillight (LED) for rear fog light (LED) for brake light (LED)			Page 39	1	76121253
		for taillight (LED) for brake light (LED) for rear fog light (LED) for reverse light (LED) for indicator (LED)			Page 39	1	76121252

LEDs'inno-4

All O-classes are combined in the LEDs'inno 4 light package, meaning that workshops which frequently work with these areas can always provide the right lighting equipment for trailers ranging from small garden trailers through to gigantic harvesters.

	83840985	83840986	81695501	81670501
Left indicator	■			
Right indicator		■		
Number of functions	3	3	1	1
Stop light	■	■		
Taillight	■	■		
Rear fog light			■	
Reverse light				■

LEDs'inno-4

Combination Rearlight

LED

Diameter: 140 mm
HxD: 48 mm
Bolt Ø: 5 mm
Bolt Distance: 82 mm
IP-Code: IP69K
Light Function: with brake light (LED)
with indicator (LED)
with taillight (LED)



83840985



83840986



Mounting	Voltage V	Fitting Position	Colour	Connector	DU	Article no.
mounting LEDs'inno P&P	10 to 30	Left			1	83840985
		Right			1	83840986
Accessories	Light Function	Cable Length mm	see	only for	DU	
Connecting Cable, light LEDs'inno		350	Page 26		1	51276941
		1200	Page 26	83840986	1	51276942
		1500	Page 26		1	51276943
		2000	Page 26	83840986	1	51276944
		2500	Page 26		1	51276945
		3000	Page 26		1	51276946
		5000	Page 26	83840986	1	51276948
		6000	Page 26		1	51276949
Connecting Cable, light LEDs'inno		7000	Page 26		1	51276950
		4000	Page 26		1	51276947
Control Unit, lights			Katalog13		1	75614193
	for taillight (LED) for brake light (LED) for rear fog light (LED) for reverse light (LED) for indicator (LED)		Page 38	83840985	1	76121254
Control Unit, lights LED-Adapt			Page 38	83840985	1	76121255
	for indicator (LED) for reverse light (LED) for taillight (LED) for rear fog light (LED) for brake light (LED)		Page 39		1	76121253
	for taillight (LED) for brake light (LED) for rear fog light (LED) for reverse light (LED) for indicator (LED)		Page 39		1	76121252

**For more cables,
see page 26+27!**



LEDs'inno-4

Reverse Light

LED

Diameter: 140 mm
HxD: 48 mm
Bolt Ø: 5 mm
Bolt Distance: 82 mm
IP-Code: IP69K



Mounting	Voltage V	Colour	Connector	DU	Article no.
mounting LEDs'inno P&P	10 to 30			1	81670501
Accessories		Cable Length mm	see	DU	
Connecting Cable, light LEDs'inno	350	Page 26	1	51276941	
	1200	Page 26	1	51276942	
	1500	Page 26	1	51276943	
	2000	Page 26	1	51276944	
	2500	Page 26	1	51276945	
	3000	Page 26	1	51276946	
	5000	Page 26	1	51276948	
	6000	Page 26	1	51276949	
Connecting Cable, light LEDs'inno	7000	Page 26	1	51276950	
	4000	Page 26	1	51276947	



LEDs'inno-4

Rear Fog Light

LED

Diameter: 140 mm
HxD: 48 mm
Bolt Ø: 5 mm
Bolt Distance: 82 mm
IP-Code: IP69K



Mounting	Voltage V	Colour	Connector	DU	Article no.
mounting LEDs'inno P&P	10 to 30			1	81695501
Accessories		Cable Length mm	see	DU	
Connecting Cable, light LEDs'inno	350	Page 26	1	51276941	
	1200	Page 26	1	51276942	
	1500	Page 26	1	51276943	
	2000	Page 26	1	51276944	
	2500	Page 26	1	51276945	
	3000	Page 26	1	51276946	
	5000	Page 26	1	51276948	
	6000	Page 26	1	51276949	
Connecting Cable, light LEDs'inno	7000	Page 26	1	51276950	
	4000	Page 26	1	51276947	

For more cables,
see page 26+27!


Plug

Plug



With 8-pin connector for LEDs'inno connecting cable.

Number of Poles: 7 terminal **Port Type:** LEDs'inno P&P
Material: Plastic

Voltage V	Capacity at 12V	DIN / ISO	DU	Article no.
12	16A (1,5 mm²) 25A (2,5 mm²)	1724 N-Typ	 1	51305518
Accessories		see	DU	
Connecting Cable, light LEDs'inno		Page 26	1	51276941
		Page 26	1	51276942
		Page 26	1	51276943
		Page 26	1	51276944
		Page 26	1	51276945
		Page 26	1	51276946
		Page 26	1	51276948
		Page 26	1	51276949
		Page 26	1	51276950
Connecting Cable, light LEDs'inno		Page 26	1	51276947



With 8-pin connector for LEDs'inno connecting cable.

Number of Poles: 13 terminal **Port Type:** LEDs'inno P&P
Material: Plastic

Voltage V	Capacity at 12V	DIN / ISO	DU	Article no.
12 to 12	16A (1,5mm²) 25A (2,5mm²)	11446	 1	51305519
Accessories		see	DU	
Connecting Cable, light LEDs'inno		Page 26	1	51276941
		Page 26	1	51276942
		Page 26	1	51276943
		Page 26	1	51276944
		Page 26	1	51276945
		Page 26	1	51276946
		Page 26	1	51276948
		Page 26	1	51276949
		Page 26	1	51276950
Connecting Cable, light LEDs'inno		Page 26	1	51276947

Connecting cable, light











LEDs'ino

Connecting Cable, light



The 8-pin cable is required in order to connect LEDs'ino combination rearlights to the LED-

s'ino cable junction boxes or directly to the LEDs'ino plugs.

Number of Poles terminal	Mounting	Cable Length mm	DU	Article no.	
8	LEDs'ino P&P	350		1	51276941
		1200		1	51276942
		1500		1	51276943
		2000		1	51276944
		2500		1	51276945
		3000		1	51276946
		4000		1	51276947
		5000		1	51276948
		6000		1	51276949
		7000		1	51276950









LEDs'ino

Connecting Cable, light



The 2-pin cable is required in order to connect the LEDs'ino accessories (clearance lights, side marker lights, etc.) to the LEDs'ino cable

junction boxes or directly to the LEDs'ino combination rearlights.

Number of Poles terminal	Mounting	Cable Length mm	DU	Article no.	
2	LEDs'ino P&P	300		1	51276933
		1000		1	51276934
		1500		1	51276935
		2000		1	51276936
		2500		1	51276937
		3000		1	51276938
		4000		1	51276939
		5000		1	51276940

LEDs'ino







Connecting Cable, light

Info: Kabelausgang seitlich



Within the LEDs'ino system, the 2-pin cable can be used for connecting the accessories

(clearance lights, side marker lights, etc.) in a chain.






Number of Poles terminal	Mounting	Cable Length mm	DU	Article no.	
2	LEDs'ino P&P	100 400		1	51276964
		100 1100		1	51276965
		100 1600		1	51276966
		100 2100		1	51276967
		100 2600		1	51276968
		100 5100		1	51276969

LEDs'inno

Connecting Cable, light



The 2-pin cable allows additional LED lights which are not part of the LEDs'inno system to be connected. The cable also features an open end.








Number of Poles terminal	Mounting	Cable Length mm	DU	Article no.
2	Blade Terminal Sleeve LEDs'inno P&P	1000	 1	51276951
		1500	 1	51276952
		2000	 1	51276953
		3000	 1	51276954
		4000	 1	51276955

LEDs'inno

Connecting Cable, light



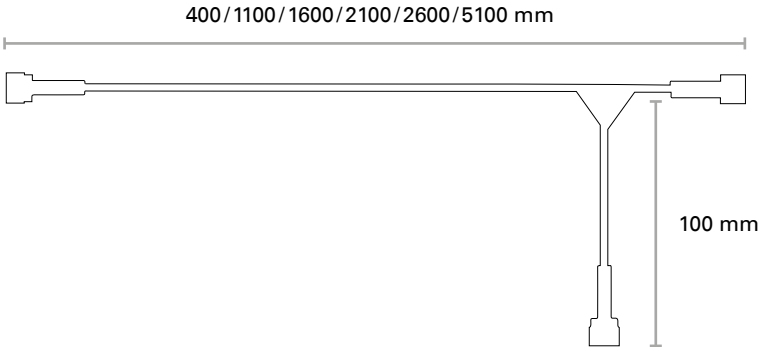
The 8-pin cable allows additional LED lights which are not part of the LEDs'inno system to be connected. The cable also features an open end.

Number of Poles terminal	Mounting	Cable Length mm	DU	Article no.
8	LEDs'inno P&P open end	2000	 1	51276956
		3000	 1	51276957
		4000	 1	51276958
		5000	 1	51276959
		6000	 1	51276960
		7000	 1	51276961
		10000	 1	51276962

» SCHEMATIC DIAGRAM



Connecting cable, light
Article no: 51276964,-969



Accessories



LEDs'ino

Cable Junction Box



The cable junction box is used to connect lights to one another within the LEDs'ino system. It features two 8-pin outlets for LEDs'ino combination rearlights and four 2-pin outlets for LEDs'ino accessories (side marker lights, clearance lights, etc.).

WxHxD: 72 x 29 x 50 mm

Manufacturer Restriction	Mounting	Connector	DU	Article no.
LEDs'ino P&P	Round Plug	 	1	50390814



LEDs'ino

Cable Junction Box



The cable junction box is used to connect lights to one another within the LEDs'ino system. It features three 8-pin outlets for LEDs'ino combination rearlights and eight 2-pin outlets for the LEDs'ino accessories (side marker lights, clearance lights, etc.).

WxHxD: 80 x 50 x 55 mm

Manufacturer Restriction	Mounting	Connector	DU	Article no.
LEDs'ino P&P	Round Plug	 	1	50390813

LEDs'inno

Holder, tail light
Holder, side marker lights

WxHxD: 103 x 50 x 22 mm
Bolt Distance: 70 mm



	DU	Article no.
	1	82712291

LEDs'inno

Holder, tail light
Holder, side marker lights

WxHxD: 50 x 64 x 22 mm
Bolt Distance: 38 mm



	DU	Article no.
	1	82712292


Outline lamp

LEDs'inno
Outline Lamp

LED

WxHxD: 50 x 50 x 11 mm



Voltage V	Mounting	IP-Code	Colour	Connector	DU	Article no.
10 to 30	mounting LEDs'inno P&P	IP69K	○	 new	1	82710487
Accessories		Cable Length mm		see	DU	
Connecting Cable, light LEDs'inno		100		Page 26	1	51276965
		1100				
		100		Page 26	1	51276966
		1600				
		100		Page 26	1	51276967
		2100				
		100		Page 26	1	51276968
		2600				
		100		Page 26	1	51276969
		5100				
		1000		Page 26	1	51276934
		2000		Page 26	1	51276936
		2500		Page 26	1	51276937
		300		Page 26	1	51276933
		4000		Page 26	1	51276939
		5000		Page 26	1	51276940
Holder, tail light				Page 29	1	82712292
Holder, side marker lights						
LEDs'inno						

LEDs'inno
Outline Lamp
LED

WxHxD: 95 x 30 x 8 mm
Hole Pitch 1/ Hole Pitch 2: 70



Info	Voltage V	Mounting	IP-Code	Colour	Connector	DU	Article no.
with seal	10 to 30	mounting LEDs'inno P&P	IP69K	○	 new	1	82710484
Accessories			Cable Length mm		see	DU	
Connecting Cable, light LEDs'inno			100	1100	Page 26	1	51276965
			100	1600	Page 26	1	51276966
			100	2100	Page 26	1	51276967
			100	2600	Page 26	1	51276968
			100	5100	Page 26	1	51276969
			1000		Page 26	1	51276934
			2000		Page 26	1	51276936
			2500		Page 26	1	51276937
			300		Page 26	1	51276933
			4000		Page 26	1	51276939
Holder, tail light			5000		Page 26	1	51276940
Holder, side marker lights LEDs'inno					Page 26	1	82712291

Side Marker Light



LEDs'inno

Side Marker Light

LED

WxHxD: 50 x 50 x 11 mm



Light Function	Voltage V	Mounting	IP-Code	Colour	Connector	DU	Article no.
with reflector	10 to 30	mounting LEDs'inno P&P	IP69K			1	82710483
Accessories			Cable Length mm		see	DU	
Connecting Cable, light LEDs'inno			100	1100	Page 26	1	51276965
			100	1600	Page 26	1	51276966
			100	2100	Page 26	1	51276967
			100	2600	Page 26	1	51276968
			100	5100	Page 26	1	51276969
			1000		Page 26	1	51276934
			2000		Page 26	1	51276936
			2500		Page 26	1	51276937
			300		Page 26	1	51276933
			4000		Page 26	1	51276939
Holder, tail light			5000		Page 26	1	51276940
Holder, side marker lights LEDs'inno					Page 29	1	82712292

LEDs'inno

Side Marker Light

LED

WxHxD: 95 x 30 x 8 mm
Hole Pitch 1/ Hole Pitch 2: 70



Info	Voltage V	Mounting	IP-Code	Colour	Connector	DU	Article no.
with seal	10 to 30	LEDs'inno P&P	IP69K			1	82710481
Accessories				Cable Length mm	see	DU	
Connecting Cable, light LEDs'inno				100 1100	Page 26	1	51276965
				100 1600	Page 26	1	51276966
				100 2100	Page 26	1	51276967
				100 2600	Page 26	1	51276968
				100 5100	Page 26	1	51276969
				1000	Page 26	1	51276934
				2000	Page 26	1	51276936
				2500	Page 26	1	51276937
				300	Page 26	1	51276933
				4000	Page 26	1	51276939
				5000	Page 26	1	51276940
Holder, tail light Holder, side marker lights LEDs'inno					Page 29	1	82712291






Marker Light

LEDs'inn
Marker Light

LED

WxH: 182 x 145 x mm
Hole Pitch 1/ Hole Pitch 2: 85







Fitting Position	Voltage V	Angle °	Mounting	Colour	DU	Article no.
Left Right	10 to 30	60	mounting LEDs'inn P&P	 	 1	82710485
Content		Voltage V	Port Type	Colour	QU	
Lens, marker light LEDs'inn		10 to 30	LEDs'inn P&P	 	1	82711049
Accessories			Cable Length mm	see	DU	
Connecting Cable, light LEDs'inn			100 1100	Page 26	1	51276965
			100 1600	Page 26	1	51276966
			100 2100	Page 26	1	51276967
			100 2600	Page 26	1	51276968
			100 5100	Page 26	1	51276969
			1000	Page 26	1	51276934
			2000	Page 26	1	51276936
			2500	Page 26	1	51276937
			300	Page 26	1	51276933
			4000	Page 26	1	51276939
			5000	Page 26	1	51276940

LEDs'inn
Lens, marker light

LED







Voltage V	Mounting	Colour	Connector	DU	Article no.
10 to 30	LEDs'inn P&P	 	 	1	82711049

LEDs'inno
Marker Light

LED

WxHxD: 60,4 x 56,3 x 23 mm
Hole Pitch 1/ Hole Pitch 35
2:
Info: mit Halter



Fitting Position	Voltage V	Mounting	IP-Code	Colour	Connector	DU	Article no.
Left Right	10 to 30	mounting LEDs'inno P&P	IP69K		 	1	82710500
Content		Voltage V	Port Type		Colour	QU	
Lens, marker light LEDs'inno		10 to 30	LEDs'inno P&P			1	82711049
Accessories			Cable Length mm	see	DU		
Connecting Cable, light LEDs'inno			3000	Page 26	1	51276938	
			300	Page 26	1	51276933	
			1000	Page 26	1	51276934	
				Page 27	1	51276951	
			1500	Page 26	1	51276935	
				Page 27	1	51276952	
			2000	Page 26	1	51276936	
				Page 27	1	51276953	
			2500	Page 26	1	51276937	
			3000	Page 27	1	51276954	
			4000	Page 26	1	51276939	
				Page 27	1	51276955	
			5000	Page 26	1	51276940	

Taillight




LEDs'inno

Taillight

LED

WxHxD: 50 x 50 x 11 mm



Voltage V	Mounting	IP-Code	Colour	Connector	DU	Article no.
10 to 30	mounting LEDs'inno P&P	IP69K		 	1	82710486
Accessories		Cable Length mm		see	DU	
Connecting Cable, light LEDs'inno		100 1100		Page 26	1	51276965
		100 1600		Page 26	1	51276966
		100 2100		Page 26	1	51276967
		100 2600		Page 26	1	51276968
		100 5100		Page 26	1	51276969
		1000		Page 26	1	51276934
		2000		Page 26	1	51276936
		2500		Page 26	1	51276937
		3000		Page 26	1	51276933
		4000		Page 26	1	51276939
Holder, tail light Holder, side marker lights LEDs'inno		5000		Page 26	1	51276940
				Page 29	1	82712292

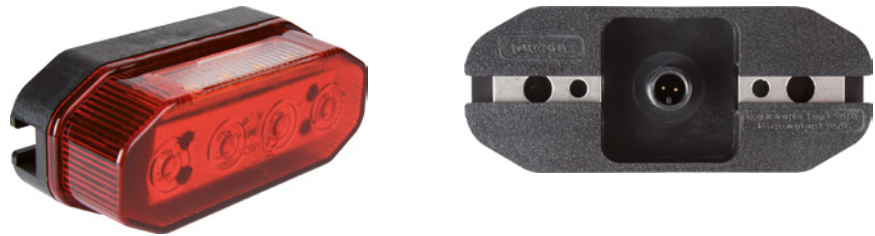
License Plate Light



LEDs'inno

Licence Plate Light

LED

WxHxD: 90 x 36 x 37 mm
Light Function: with taillight (LED)



Voltage V	Mounting	IP-Code	Colour	Connector	DU	Article no.
10 to 30	mounting LEDs'inno P&P	IP69K			1	84750219
Accessories		Cable Length mm		see	DU	
Connecting Cable, light LEDs'inno		100 1100		Page 26	1	51276965
		100 1600		Page 26	1	51276966
		100 2100		Page 26	1	51276967
		100 2600		Page 26	1	51276968
		100 5100		Page 26	1	51276969
		1000		Page 26	1	51276934
		2000		Page 26	1	51276936
		2500		Page 26	1	51276937
		300		Page 26	1	51276933
		4000		Page 26	1	51276939
		5000		Page 26	1	51276940

Control Unit, Lights

Control Unit, lights



Dummy resistance load for adapting LED trailer lights on vehicles with lamp monitoring. The failure of one LED unit is detected and the load is switched off.

- simple connection thanks to pre-installed cable with plug and socket
- LED failure is detected
- Short circuit is detected


- Controls all branches with shunt resistors
- LED-Adapt must be mounted on a metallic surface
- It is not permissible to connect bulbs to the outlet
- Under certain circumstances, the short circuit protection may only shut off after several minutes

IP-Code: IP 68
Information Suitable for CAN bus systems
Transfer:
Light Function:

for taillight (LED)
 for brake light (LED)
 for rear fog light (LED)
 for reverse light (LED)
 for indicator (LED)

DIN / ISO: 1724 N-Typ

housing material: Aluminium
WxHxD: 232 x 49,5 x 102 mm
Number of Poles: 7 terminal

Rated Voltage V	Temperature range °C	Cable Length m	Connector	DU	Article no.
12	-40 to +55	0,5 2,5		1	76121254

Control Unit, lights



Dummy resistance load for adapting LED trailer lights on vehicles with lamp monitoring. The failure of one LED unit is detected and the load is switched off.

- simple connection thanks to pre-installed cable with plug and socket
- LED failure is detected
- Short circuit is detected


- Controls all branches with shunt resistors
- LED-Adapt must be mounted on a metallic surface
- It is not permissible to connect bulbs to the outlet
- Under certain circumstances, the short circuit protection may only shut off after several minutes

IP-Code: IP 68
Information Suitable for CAN bus systems
Transfer:
Light Function:

for taillight (LED)
 for brake light (LED)
 for rear fog light (LED)
 for reverse light (LED)
 for indicator (LED)

DIN / ISO: 11446

housing material: Aluminium
WxHxD: 232 x 49,5 x 102 mm
Number of Poles: 13 terminal

Rated Voltage V	Temperature range °C	Cable Length m	Connector	DU	Article no.
12	-40 to +55	0,5 2,5		1	76121255

LED-Adapt

Control Unit, lights



76121252



76121253

Dummy resistance load for adapting LED trailer lights on vehicles with lamp monitoring. The failure of one LED unit is detected and the load is switched off.

- simple connection thanks to pre-installed cable with plug and socket
- LED failure is detected
- Short circuit is detected

IP-Code: IP 68
Information Transfer: CAN-bus
Registration Type: CE approved
Light Function: for taillight (LED)
for brake light (LED)
for rear fog light (LED)
for reverse light (LED)
for indicator (LED)
WxHxD: 280 x 25 x 70 mm

- Controls all branches with shunt resistors
- LED-Adapt must be mounted on a metallic surface
- It is not permissible to connect bulbs to the outlet
- Under certain circumstances, the short circuit protection may only shut off after several minutes

Temperature range °C	Cable Length m	Rated Voltage V	DU	Article no.
-40 to +75	1,20 3,50	12	1	76121252
		24	1	76121253

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