LEDsInno
Smart Lighting System

Passt immer!

⁄⁄ HERTH+BUSS

ELPARTS

Electrics | Installation | Tools | Lighting

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 from Herth+Buss

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	

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Smart Lighting System LEDsInno
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. LEDsInno – 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 LEDsInno?
LEDsInno 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 LEDsInno 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 LEDsInno 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
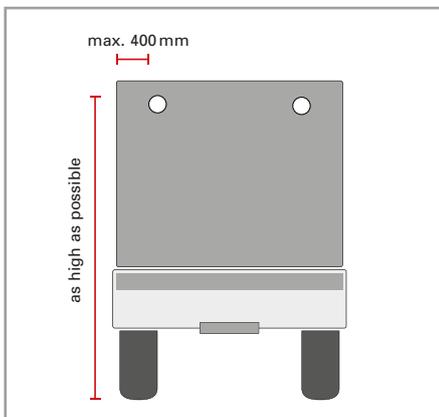
Mounting: Compulsory for trailers with a width of > 2.1 m
Permissible for trailers with a width of 1.8 m to 2.1 m
Quantity: 2
Colour: White
Geom. view angle: Horizontal 80° pointing outwards; vertical 5° above and 20° below the horizontal lines
Other specifications: The front white and rear red clearance 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
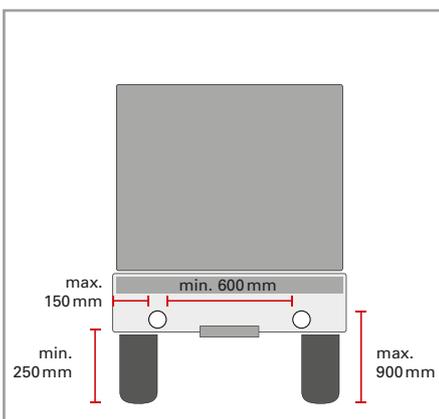
Mounting: Compulsory for all trailers
Quantity: 2
Colour: White
Shape: Non-triangular
Geom. view angle: Horizontal 10° pointing inwards and 30° pointing outwards; vertical ± 10°, but 5° pointing downwards with a mounting height of < 750 mm
Other specifications: The illuminating area of the reflex reflector may be integrated into the outline light. The mounting height of the reflex reflector must be observed in this case!

Front outline light
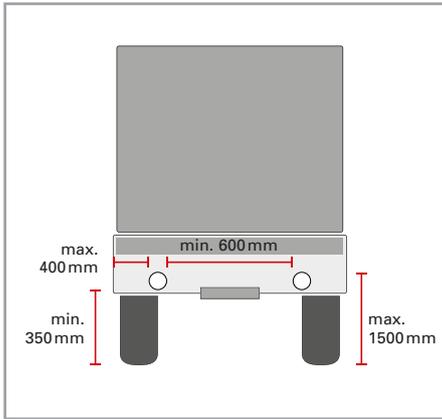
Mounting:	Compulsory for trailers with a width of > 1.6 m
	Permissible for trailers with a width of ≤ 1.6 m
Quantity:	2
Colour:	White
Geom. view angle:	Horizontal 5° pointing inwards and 80° pointing outwards; vertical ± 15°, but 5° pointing downwards with a mounting height of < 750 mm
Other specifications:	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!

Rear turn signal (indicator)
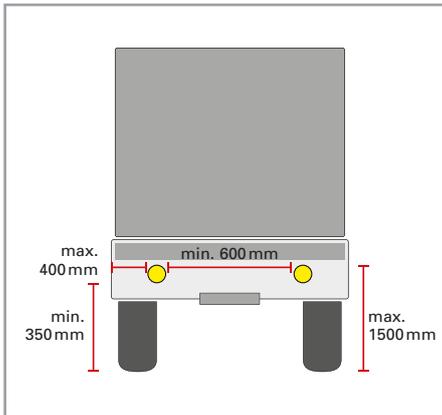
|	
Mounting:	Compulsory for all trailers in category 2a or 2b
Quantity:	2
Colour:	Yellow
Geom. view angle:	Horizontal 45° inwards, up to 80° outwards; vertical ± 15°, but 5° pointing downwards with a mounting height of < 750 mm
Please note:	Category 2a:
	1 luminous intensity level = lighting value min. 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

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Rear reflex reflector
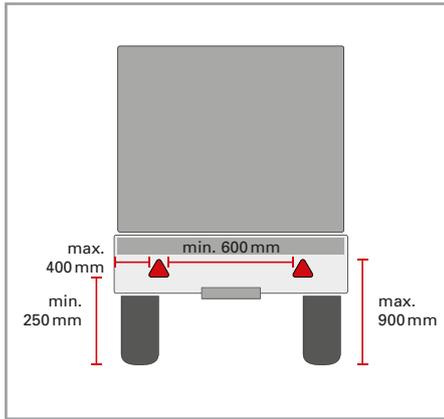
Mounting:	Compulsory for all trailers
Quantity:	2
Colour:	Red
Shape:	Triangular
Mounting arrangement:	The tip of the triangle must be aligned to point upwards.
Geom. view angle:	Horizontal ± 30°; vertical ± 15°, but 5° pointing downwards with a mounting height of < 750 mm
Other specifications:	It is permissible to mount a combination rearlight with an integrated, rectangular reflex reflector. Additional reflective media are permitted.

Tail light
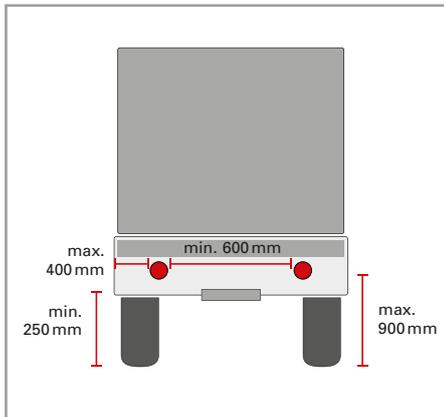
Mounting:	Compulsory for all trailers
Quantity:	2
Colour:	Red
Mounting height of the additional tail lights:	Min. 600 mm above the compulsory tail lights
Geom. view angle:	Horizontal 45° inwards, up to 80° outwards; vertical ± 15°, but 5° pointing downwards with a mounting height of < 750 mm
Other specifications:	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
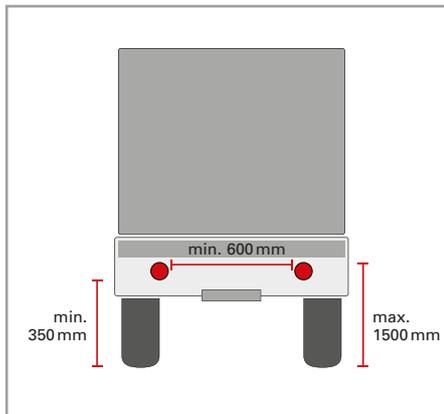
Mounting:	Compulsory for all trailers in category S1 or S2
Quantity:	2 (If S3 stop lights are mounted, two additional S1 or S2 stop lights may be mounted on vehicles from classes O2, O3 and O4).
Colour:	Red
Mounting height for additional stop lights:	Min. 600 mm above the compulsory stop lights
Geom. view angle:	Horizontal ± 45°; vertical ± 15°, but 5° pointing downwards with a mounting height of < 750 mm
Other specifications:	The clearance between the S1 or S2 stop light and the rear fog light must be greater than 100 mm.
Please note:	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

min. 850 mm
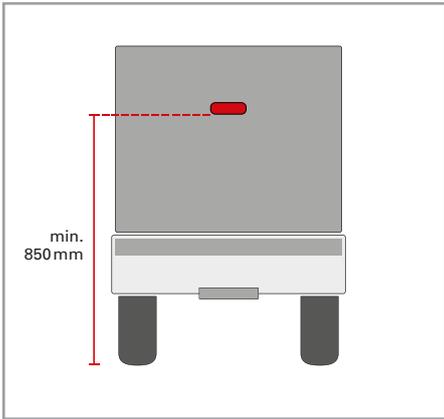
|	
Quantity:	1
	Exception: Longitudinal median plane does not pass through a solid mounting wall and no space is available for an S3 stop light. In this case, two type "D" S3 stop lights may be installed, or one S3 stop light may be mounted to the left or right of the longitudinal median plane.
Colour:	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 ± 10°; vertical 10° above and 5° below the horizontal lines
Please note:	S3 (raised stop light) = lighting value min. 25 cd, max. 80 cd S3 (type "D" twin light): = min. 25 cd, max. 55 cd

Reversing light

min. 250 mm   max. 1200 mm
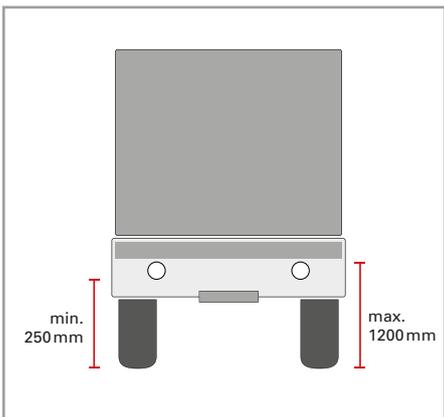
Mounting:	Compulsory for all trailers in classes O2, O3 and O4 Permissible for trailers in class O1
Quantity:	1 unit compulsory; second reversing light permissible for trailers with a length of < 6 m 2 units compulsory for trailers with a length of > 6 m and 2 additional units are permissible on all other trailers
Colour:	White
Mounting width:	No specification
Geom. view angle:	With one light: Horizontal ± 45° 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

min. 250 mm   max. 1000 mm
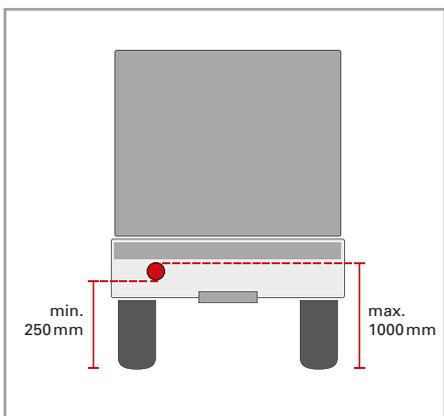
Mounting:	Compulsory for all trailers
Quantity:	1 or 2
Colour:	Red
Mounting width:	No specification
Mounting in general:	Mounting a rear fog light: Left of centre for right-hand traffic Right of centre for left-hand traffic Mounting in the centre is permissible
Geom. view angle:	Horizontal ± 25°; vertical ± 5°
Other specifications:	The clearance from the stop light must be greater than 100 mm.

Rear clearance light

max. 400 mm

as high as possible
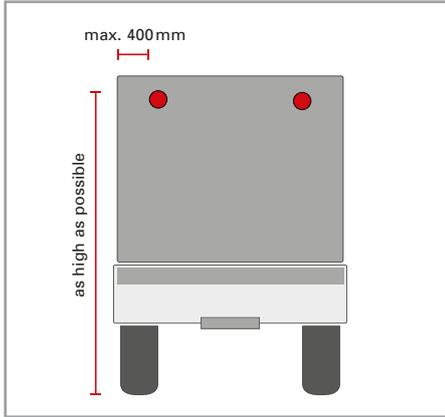
Mounting:	Compulsory for all trailers with a width of > 2.1 m
	Permissible for trailers with a width of 1.8 m to 2.1 m
Quantity:	2
Colour:	Red
Geom. view angle:	Horizontal 80° pointing outwards; vertical 5° above and 20° below the horizontal lines
Other specifications:	The rear red and front white clearance 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)
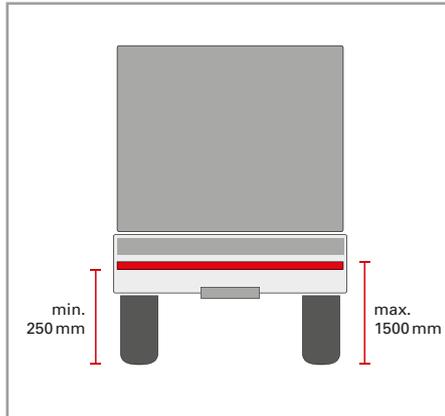
min. 250 mm

max. 1500 mm

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
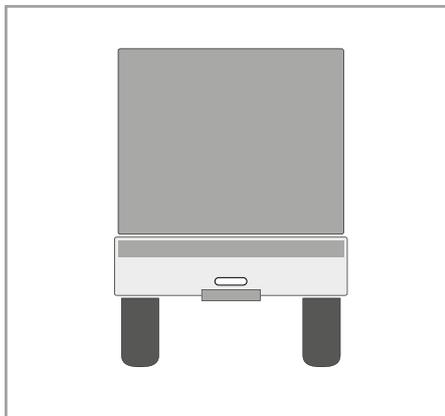
Mounting:	Compulsory for all trailers
Quantity:	1 or more
Colour:	White
Mounting the licence plate:	In the centre or on the left (or right for left-hand traffic)

Side reflex reflector
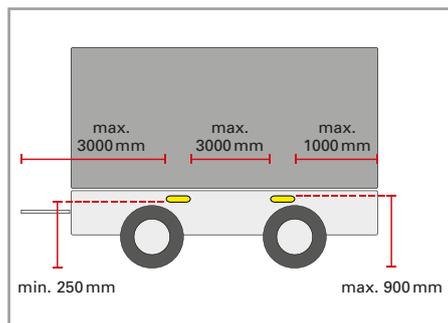
Mounting: Compulsory for all trailers
Quantity: Min. 1 in the central third
Colour: Yellow
Shape: Non-triangular
Geom. view angle: Horizontal ± 45°; vertical ± 10°, but 5° downwards for a mounting height of < 750 mm
Other specifications: The illuminating area of the reflex reflector may be integrated into the side marker light. The maximum mounting height of the reflex reflector must be observed in this case.

Side marker light (SM1)
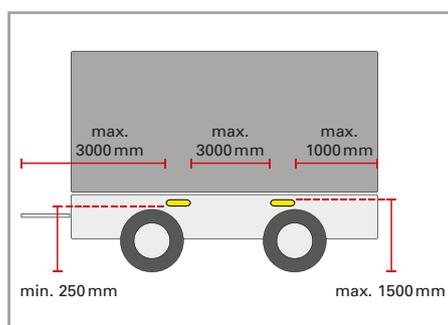
Mounting: Compulsory for trailers with a length of > 6 m
Permissible for trailers with a length of < 6 m
Quantity: Min. 1 in the central third
Colour: Front yellow, rear yellow (red is also possible in combination with a combination rearlight)
Longitudinal mounting: Max. 3 m from the front (including drawbar), max. 1 m from the rear, max. 3 m between the individual side marker lights (exception: 4 m)
Geom. view angle: Horizontal ± 45°; vertical ± 10°, but also 5° downwards for a mounting height of < 750 mm
Other specifications: 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.
Please note: SM1 light (lighting values min. 4 cd) is used in all vehicle classes.

Side-facing reflective strips and contour marking (ECE-R 104)
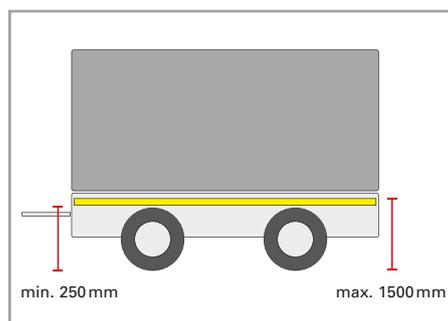
Mounting: Permissible for all trailers
Mounting arrangement: Reflective marking materials may comprise one part or several parts
Width: 50 mm +10/-0 mm (compulsory)
Minimum length of section: An approval marking (at intervals of 0.5 m) must be visible.
Colour: White or yellow
Longitudinal mounting: Mounting 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) LEDsInno "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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Application example

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

82710487
82710484

51276933,-940

82710481

51276964,-969

82710483

82710485
82710500

51276933,-940

51305518
51305519

51276941,-950

50390813
50390814

51276964,-969

51276941,-950

51276941,-950

84750219

LEDsInno 1
83840969

LEDsInno 2

LEDsInno 3

LEDsInno 4

51276933,-940

LEDsInno 1
83840970

LEDsInno 2

LEDsInno 3

LEDsInno 4

82710487
82710484

51276933,-940

82710481

51276964,-969

82710483

82710485
82710500

51276933,-940

LEDsInno-1

Smart Lighting System LEDsInno

Smart trailer lighting system in the Elparts product range

	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)	■	■	■	■
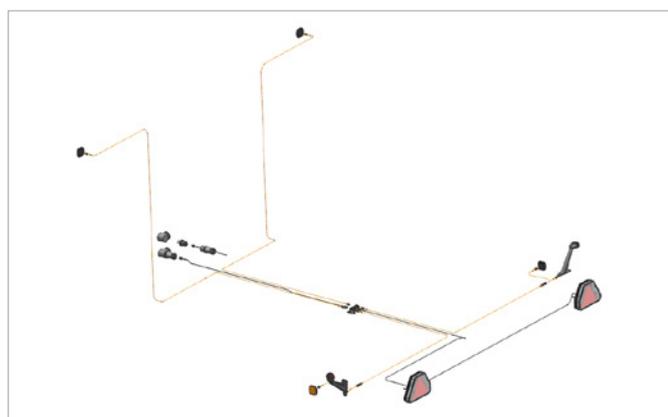
Example for a small trailer with junction box

LEDsInno-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)
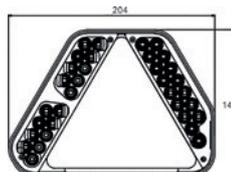
83840969

83840971

83840970

83840972

For more cables,
see page 26+27!

Mounting	Voltage V	Fitting Position	Light Function	Connector	DU	Article no.
mounting LEDsInno P&P	12	Left	with rear fog light (LED) with number plate lamp (bottom)	NEW	1	**83840971**
			with rear fog light (LED) with number plate lamp (side)	NEW	1	**83840969**
		Right	with reverse light (LED)	NEW	1	**83840972**
			with reverse light (LED) with number plate lamp (side)	NEW	1	**83840970**

Accessories	Light Function	Cable Length mm	see	only for	DU	
Connecting Cable, light LEDsInno		350	Page 26		1	**51276941**
		1200	Page 26	83840971 83840972	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**
		7000	Page 26		1	**51276950**
Connecting Cable, light LEDsInno		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	**76121255**
Control Unit, lights LED-Adapt			Page 39		1	**76121252**

LEDsInno-2

For decades now, we have been offering high-quality vehicle parts to independent workshops. These are accompanied by premium service and practical repair solutions. LEDsInno – 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

	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
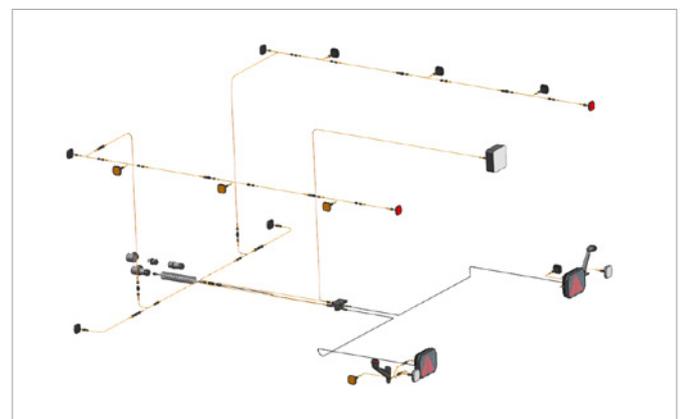
Example for a horse box

LEDsInno-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)
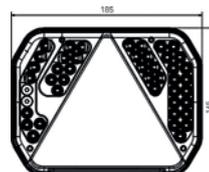
83840977

83840975

83840979

83840973

83840976

83840974

83840978

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

Mounting	Volt-age V	Fitting Position	Light Function	Connector	DU	Article no.
mounting LEDsInno P&P	10 to 30	Left	with rear fog light (LED)	NEW	1	**83840977**
			with rear fog light (LED) with reverse light (LED)	NEW	1	**83840975**
			with rear fog light (LED) with reverse light (LED) with number plate lamp (bottom)	NEW	1	**83840979**
			with rear fog light (LED) with reverse light (LED) with number plate lamp (side)	NEW	1	**83840973**
		Right	with rear fog light (LED) with reverse light (LED)	NEW	1	**83840976**
			with rear fog light (LED) with reverse light (LED) with number plate lamp (side)	NEW	1	**83840974**
			with reverse light (LED)	NEW	1	**83840978**

Accessories	Light Function	Cable Length mm	see	DU	
Connecting Cable, light LEDsInno		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**
		7000	Page 26	1	**51276950**
Connecting Cable, light LEDsInno		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**

LEDsInno-3

that is also of interest to vehicle manufacturers. It initially comprises around 70 products, although this number is increasing.

What is LEDsInno?

	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)	■	■	■	■	■
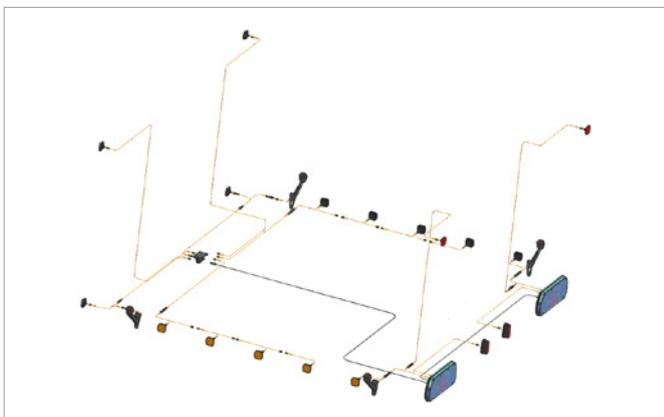
Example for a special transporter

LEDsInno-3

Combination Rearlight

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 LEDsInno P&P	10 to 30	Left		NEW	1	**83840980**
			with number plate lamp (bottom)	NEW	1	**83840984**
			with number plate lamp (side)	NEW	1	**83840982**
		Right		NEW	1	**83840981**
			with number plate lamp (side)	NEW	1	**83840983**

Accessories	Light Function	Cable Length mm	see	DU	
Connecting Cable, light LEDsInno		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 LEDsInno		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**

LEDsInno-4

LEDsInno 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**

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

LEDsInno-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 LEDsInno P&P	10 to 30	Left	🟡🔴	NEW	1	**83840985**
		Right	🟡🔴	NEW	1	**83840986**

Accessories	Light Function	Cable Length mm	see	only for	DU	
Connecting Cable, light LEDsInno		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**
		7000	Page 26		1	**51276950**
Connecting Cable, light LEDsInno		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**
			Page 38	83840985	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**

LEDsInno-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 LEDsInno P&P	10 to 30	○	NEW	1	**81670501**

Accessories	Cable Length mm	see	DU	
Connecting Cable, light LEDsInno	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**
	7000	Page 26	1	**51276950**
Connecting Cable, light LEDsInno	4000	Page 26	1	**51276947**

LEDsInno-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 LEDsInno P&P	10 to 30	●	NEW	1	**81695501**

Accessories	Cable Length mm	see	DU	
Connecting Cable, light LEDsInno	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**
	7000	Page 26	1	**51276950**
Connecting Cable, light LEDsInno	4000	Page 26	1	**51276947**

Plug

Plug

With 8-pin connector for LEDsInno connecting cable.

Number of Poles: 7 terminal   **Port Type:** LEDsInno 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 [NEW]	1	**51305518**
Accessories			**see**	**DU**
Connecting Cable, light LEDsInno			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 LEDsInno			Page 26	1	**51276947**

Plug

With 8-pin connector for LEDsInno connecting cable.

Number of Poles: 13 terminal   **Port Type:** LEDsInno P&P
Material: Plastic

Voltage V	Capacity at 12V	DIN / ISO	DU	Article no.
12 to 12	16A (1,5mm²) 25A (2,5mm²)	11446 [NEW]	1	**51305519**
Accessories			**see**	**DU**
Connecting Cable, light LEDsInno			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 LEDsInno			Page 26	1	**51276947**

Connecting cable, light

LEDsInno

Connecting Cable, light

The 8-pin cable is required in order to connect LEDsInno combination rearlights to the LEDsInno cable junction boxes or directly to the LEDsInno plugs.

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

LEDsInno

Connecting Cable, light

The 2-pin cable is required in order to connect the LEDsInno accessories (clearance lights, side marker lights, etc.) to the LEDsInno cable junction boxes or directly to the LEDsInno combination rearlights.

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

LEDsInno

Connecting Cable, light

Info: Kabelausgang seitlich

Within the LEDsInno system, the 2-pin cable can be used for connecting the accessories

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

LEDsInno

Connecting Cable, light

The 2-pin cable allows additional LED lights which are not part of the LEDsInno 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 LEDsInno P&P	1000	NEW	1	**51276951**
		1500	NEW	1	**51276952**
		2000	NEW	1	**51276953**
		3000	NEW	1	**51276954**
		4000	NEW	1	**51276955**

LEDsInno

Connecting Cable, light

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

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

≫ SCHEMATIC DIAGRAM

i

Connecting cable, light
Article no: 51276964,-969
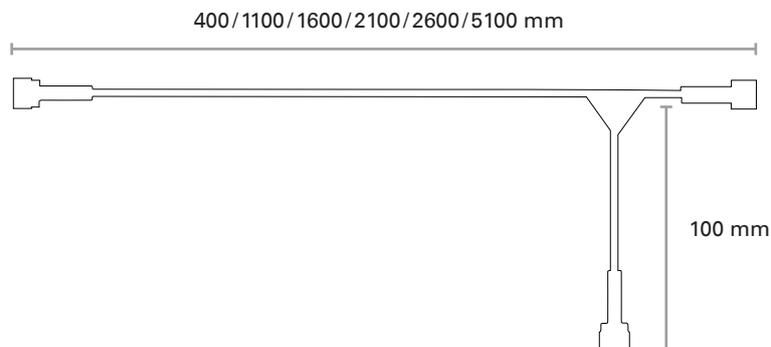
400 / 1100 / 1600 / 2100 / 2600 / 5100 mm

100 mm

Accessories

LEDsInno

Cable Junction Box

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

WxHxD: 72 x 29 x 50 mm

Manufacturer Restriction	Mounting	Connector	DU	Article no.
LEDsInno P&P	Round Plug	NEW	1	**50390814**

LEDsInno

Cable Junction Box

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

WxHxD: 80 x 50 x 55 mm

Manufacturer Restriction	Mounting	Connector	DU	Article no.
LEDsInno P&P	Round Plug	NEW	1	**50390813**

LEDsInno

Holder, tail light
Holder, side marker lights

	DU	Article no.
NEW	1	**82712291**

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

LEDsInno

Holder, tail light
Holder, side marker lights

	DU	Article no.
NEW	1	**82712292**

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

Outline lamp

LEDsInno

Outline Lamp

LED

WxHxD: 50 x 50 x 11 mm

Voltage V	Mounting	IP-Code	Colour	Connector	DU	Article no.
10 to 30	mounting LEDsInno P&P	IP69K	○	NEW	1	82710487

Accessories		Cable Length mm	see	DU	
Connecting Cable, light LEDsInno		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 LEDsInno			Page 29	1	82712292

LEDsInno

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 LEDsInno P&P	IP69K	○	NEW	1	**82710484**

Accessories				Cable Length mm	see	DU	
Connecting Cable, light LEDsInno				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 LEDsInno					Page 26	1	**82712291**

Side Marker Light

LEDsInno

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 LEDsInno P&P	IP69K	🟡	NEW	1	**82710483**

Accessories			Cable Length mm	see	DU	
Connecting Cable, light LEDsInno			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 LEDsInno				Page 29	1	**82712292**

LEDsInno

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	LEDsInno P&P	IP69K	🟡	NEW	1	**82710481**

Accessories				Cable Length mm	see	DU	
Connecting Cable, light LEDsInno				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 LEDsInno					Page 29	1	**82712291**

Marker Light

LEDsInno

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 LEDsInno P&P	●○	NEW	1	**82710485**
Content				**Voltage V**	**Port Type**	**Colour**	**QU**	
Lens, marker light LEDsInno				10 to 30	LEDsInno P&P	●○	1	**82711049**

Accessories	Cable Length mm	see	DU	
Connecting Cable, light LEDsInno	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**

LEDsInno

Lens, marker light

LED

Voltage V	Mounting	Colour	Connector	DU	Article no.
10 to 30	LEDsInno P&P	●○	NEW	1	**82711049**

LEDsInno

Marker Light

LED

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

Fitting Position	Voltage V	Mounting	IP-Code	Colour	Connector	DU	Article no.
Left Right	10 to 30	mounting LEDsInno P&P	IP69K	●○	NEW	1	**82710500**

Content	Voltage V	Port Type		Colour	QU	
Lens, marker light LEDsInno	10 to 30	LEDsInno P&P		●○	1	**82711049**

Accessories		Cable Length mm	see	DU	
Connecting Cable, light LEDsInno		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

LEDsInno

Taillight

LED

WxHxD: 50 x 50 x 11 mm

Voltage V	Mounting	IP-Code	Colour	Connector	DU	Article no.
10 to 30	mounting LEDsInno P&P	IP69K	🔴	NEW	1	**82710486**

Accessories	Cable Length mm	see	DU	
Connecting Cable, light LEDsInno	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 LEDsInno		Page 29	1	**82712292**

License Plate Light

LEDsInno

Licence Plate Light

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 LEDsInno P&P	IP69K	🔴	NEW	1	**84750219**

Accessories		Cable Length mm	see	DU	
Connecting Cable, light LEDsInno		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 Transfer:	Suitable for CAN bus systems
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	NEW	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
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- Controls all branches with shunt resistors
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- 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 Transfer:	Suitable for CAN bus systems
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		DU	Article no.
12	-40 to +55	0,5 2,5	NEW	1	76121255

LED-Adapt

Control Unit, lights
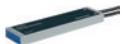
76121252   76121253

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

- 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 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

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**

Your Herth+Buss partner: