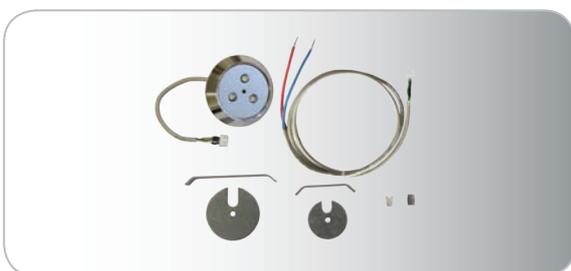
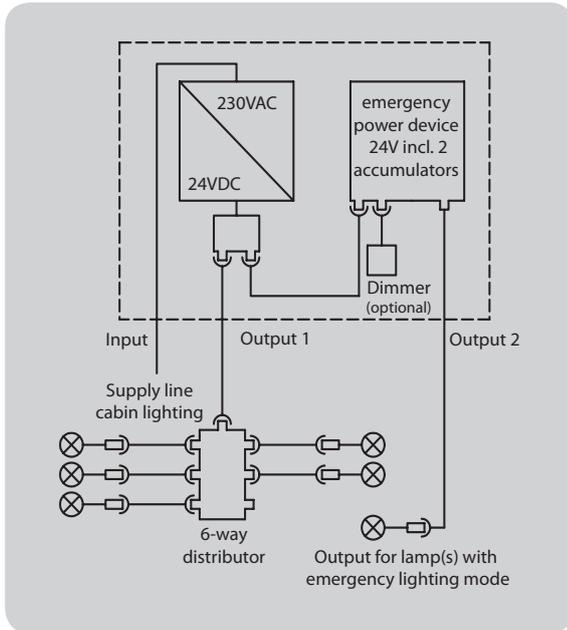


Cabin lighting CabinLED

Operating mode:

The emergency power unit is suitable for the illumination during normal operation and during emergency power operation. Output 2 is supplied with power without interruptions. The capacity of the interior lead accumulators is controlled in compliance with EN 81-28. If the rated capacity is not reached, this is indicated by a potential free contact. During emergency power operation, the accumulators are protected against being destroyed by a deep discharge. During mains operation they are continuously charged with a trickle charge.



Emergency power supply

according to EN 81-20 5.4.10.4

Through an input, the emergency power unit can be informed about an intended disconnection of the cabin light. If the light voltage is interrupted and the input is triggered at the same time, the emergency power unit does not switch to emergency power supply.

Optionally a dimmer can be connected to the emergency power unit. During normal operation all lamps are lighted with the adjusted brightness. During emergency power operation the emergency lamps are lighted without being dimmed. In general the emergency power unit is suitable for operating one emergency lamp. By means of a 6-way distributor (which is not included in the delivery) several lamps can be triggered. (see the "Technical data").

Technical data

Switching power supply with NSG

- Input: 100-240V AC 50Hz/60Hz, 2m supply line
- Output 1: 24VDC with 3m connecting line to 6-way distributor (Lamps **don't lit up** during emergency mode)
- Output 2: 24VDC with 3m connecting line to lamp (Lamps **do lit up** during emergency mode)
- Lamps per power supply: **LED3** max. 12 pcs. among those max. 6 with emerg. mode
LED5 max. 6 pcs. among those max. 4 with emerg. mode
LED7 max. 6 pcs. among those max. 2 with emerg. mode
- Input: for cabin light switch-off on purpose (potential-free contact in the control system)
- Output: potential-free signal contact „Battery capacity low“
1x changer, 30VDC 1A SELV
- Battery: 2x lead fleece gel accumulator 12V 1.2Ah connection in series
- Protection type: IP33
- Operating temperature: -10°C up to 50°C
- Dimensions: length: 255 x width: 180 x height: 90mm

Switching power supply 24V IP20 with emergency supply

Art.no.	Description
020421	CabinLED-NSG-24V-60W-3pol

- 1x emergency power supply IP33 equipped and pre-wired with:
 - power supply 230VAC/24VDC with 2m supply line H05VV-F 2x0.75mm²
 - emergency supply with capacity monitoring acc. EN 81-28
 - 2x battery 12V/1.2Ah
 - 1x outgoing line 3m LIYY 3x0.34mm² with 6-way distributor
 - 1x outgoing line 3m LIYY 3x0.34mm² with connector

Art.no.	Description
020419	CabinLED-6-way distributor-3pole

1x 6-way distributor with with 3m connecting line LIYY 3x0.34mm²

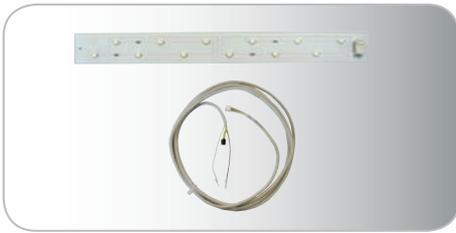
Emergency lamp

LED-emergency lamp for on-surface mounting 12V-30V DC
suitable for ceiling cutouts of 12 - 59mm

Art.no.	Description
020471	CabinLED3-3030-AB-12V-30V-3pol-w

- 1x LED-lamp for on-surface mounting with 17cm connecting cable, IP40,
- 1x connecting line 1m LIYY 2x0.34mm² with ferrules, 2x distance plates,
- 2x clamps, 1x speed nut for fixation in sheet metal ceilings
- 1x fitting for fixation in wooden ceilings

Emergency lamps



LED-Strip 24V

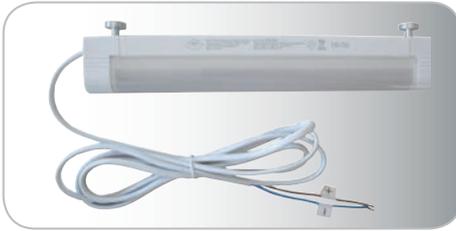
The LED strip can be glued on the LED tiles.

Charging rate: 65mA

Power: 1.6W

Art.no.	Description
020109	H-LED-24V-N

Circuit board strip 24 x 2.5cm equipped with 12 LEDs incl. 5m supply line



LED light 24V, 2.5W with magnetic base

The W+W LED light 24V 2.5W is equipped with a magnetic base and 2 m supply line. Thereby it is possible to fix the light at different places on the car roof (e.g. used as emergency lamp), for example at the guard rail or at the roof control box.

Charging rate: 103mA (with 24V DC), power: 2.5W (with 24V DC), illuminance: 65 lux (in 1m distance).

Art.no.	Description
052293	LED light 24V, 2.5W with magnetic base, 2m supply line



LED light, round 360°, IP67

LED light 360°, Ø 45mm, height 23mm, fully encapsulated, with 5m supply line. Protection type: IP67, current consumption: 40mA (with 24V DC), power: 1W (with 24V DC), 5000K, 83lm.

Art.no.	Description
020447	LED light 360°, 24V, IP67, 5m supply line

LightWatcher for cabin lighting switching off

The LightWatcher has to be mounted directly onto the car roof. Any movements of the car can be detected by three integrated acceleration sensors. The sensors are sensitive enough to recognize also door movements.

As soon as a movement in the car is perceived, the cabin light is switched on. The switching threshold for sensing movements can be set directly on the LightWatcher gadget. Provided that no further car or door movements are sensed, a certain time will elapse before the cabin light is switched off again. To install the LightWatcher, the lighting branch circuit is simply cut and the LightWatcher is put in. The LightWatcher can, apart from the cabin light, switch off an additional consumer. Moreover, for the powersaving mode a third contact has been provided that can switch on a consumer so as to activate the emergency light for example.

For special applications that require the cabin light to be activated not only by the movement sensors but also by other sensors or functions, four potential-free inputs have been provided, that can be used reversely as well. All relay contacts are closed, if the LightWatcher is not supplied with operating voltage.



Art.no.	Description
020433	W+W LightWatcher



020434	W+W LightWatcher in a case
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1x LightWatcher in a case pre-wired for the installation with 3m supply line



020435	W+W LightWatcher in a case for CabinLED-NSG
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1x LightWatcher in a case for W+W emergency power supply pre-wired for the installation with 3m supply line and 2m control cable

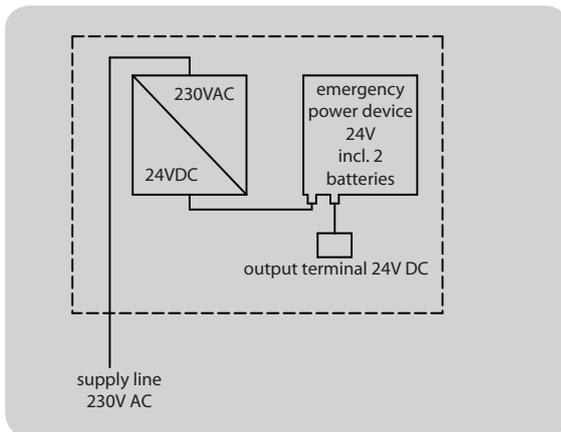
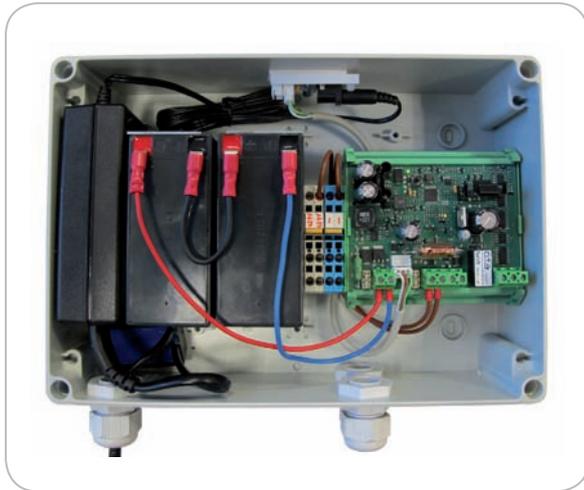
Technical data Lightwatcher

Supply voltage:	230V AC 50Hz/60Hz
Power received:	2 VA
Relay outputs:	3
Max. Switching voltage:	250V AC or 30V DC
Max. continuous current:	8A (AC) or 5A (DC)
Max. switching capacity:	2000 VA (AC) or 150W (DC)
Supplementary control	4
Control voltage (E1-E4):	12V - 230V AC/DC
Type of protection:	IP20 (020433)
Dimensions:	L: 106 x W: 90 x H: 48mm

Lightwatcher in a case article 020434 + 020435

Case:	L: 200 x W: 200 x H: 130mm
Type of protection:	IP65
Supply line:	YSLY-JZ 3x1.5mm ²
Control cable (only 020435)	YSLY-JZ 2x1.0mm ²

Cabin lighting



Emergency power supply

according to EN 81-20 5.4.10.4

According to EN 81-20 5.4.10.4:

There shall be an automatically rechargeable emergency supply, which is capable of ensuring at least a lighting intensity of 5 lux for 1 h. The measurements are taken in the centre of the car one meter above the floor, on the car roof and at the alarm initiation device in the car.

The power supply unit (NSG) is suitable for the emergency lighting in and on the car in case of power failure. If the supply voltage drops out, a direct-current voltage with 24V will be available at the output terminals. The capacity of the internal lead accumulators is monitored according to EN 81-28. If the rated capacity is not reached, this is indicated by a potential free contact. During emergency power operation, the accumulators are protected against being destroyed by a deep discharge. During mains operation they are continuously charged with a trickle charge.

Through an input, the emergency power unit can be informed about an intended disconnection of the cabin light. If the supply voltage is interrupted and the input is triggered at the same time, the emergency power unit does not switch to emergency power supply.

Technical data

Switching power supply with NSG

Input:	100-240V AC 50Hz/60Hz, 2m supply line
Output 1:	24V DC, 1.2Ah
Input:	for switch-off on purpose (potential-free contact in the control system)
Output:	potential-free signal contact „Battery capacity low“ 1x changer, 30VDC 1A SELV
Batteries:	2x lead fleece gel accumulator 12V 1.2Ah connection in series
Protection type:	IP33
Operating temperature:	-10°C up to 50°C
Dimensions:	Length: 255 x width: 180 x height: 90mm

Scope of delivery

Emergency power supply NSG

Art.no.	Description
020446	Emergency power supply NSG 24VDC / 1.2Ah

- 1x emergency power supply IP33 equipped and pre-wired with:
- power supply 230VAC/24VDC with 2m supply line H05VV-F 2x0.75mm²
 - emergency supply with capacity monitoring acc. EN 81-28
 - 2x batteries 12V/1.2Ah
 - output terminal 24V DC

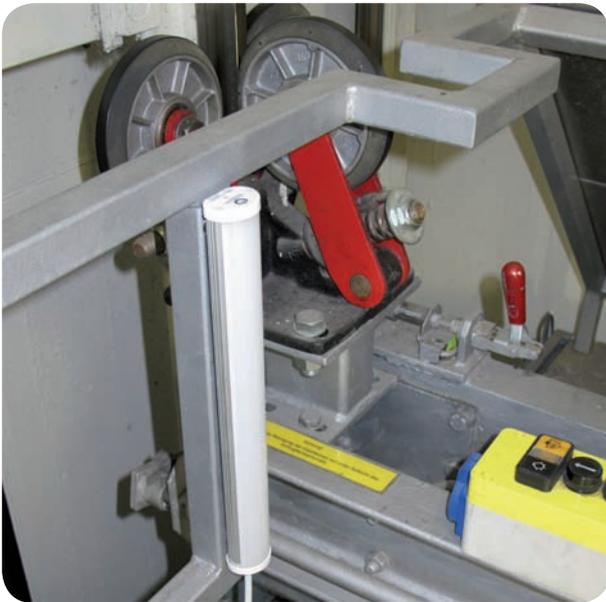
Emergency lighting

NEW!

Extract from the norm EN 81-20 5.4.10.4:

„There shall be an automatically rechargeable emergency supply, which is capable of ensuring at least a lighting intensity of 5 lux for 1 h:

a) at the alarm initiation device in the car and on the car roof; [...] c) in the centre of the car roof one meter above the floor.“



Fixation at the guard rail for car roofs.



Fixation at the control box.



LED emergency lighting 230V

with magnet, according to EN 81-20

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Description

The W+W LED emergency light is equipped with a magnetic base and 2 m supply line. Thereby it is possible to fix the light at different places on the car roof, for example at the guard rail or at the roof control box. Of course it is possible to change the fixation position at any time.

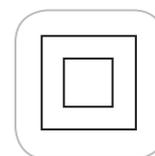
The emergency light automatically comes on upon failure of the supply voltage. If the voltage goes off for a longer period, an integrated protection of depth discharge prevents a damage of the battery.

Function

- Applying voltage: LED light does not lit.
- Loss of voltage: LED light is lit.
- The emergency light can be switched on and off with a button.
- If the voltage goes off for a longer period, an integrated protection of depth discharge prevents damage of the battery.
- Status indication via LED.

Technical data

Supply voltage:	220-240V / 50Hz
Protection type:	IP20
Power trickle charge:	1.7VA (~0.007A)
Luminous flux:	450 lumen
Illuminance:	140 lux (in 1m distance)
Luminous colour:	6500K
Supply line:	2m, H03VVH2-F 2x0.75mm ²
Case:	Aluminium / Polycarbonat (PC)
Battery:	Lithium ion 3.7V 2Ah
Charging rate:	approx. 0.016A (grid side 230V, charging rate)
Duration of lighting:	>1.5h
Loading time:	>12h
Protection of depth discharge:	yes
Operation temperature:	0°C up to 40°C
Dimensions with magnetic base:	310 x 39 x 34mm (LxWxH)



LED emergency light 2W, 230V,

acc. to EN 81-20

Art.no.	Description
052294	LED emergency light 230V, magnet, 2m

LED emergency light 230V with magnetic base and 2m supply line.