

LED signal light

Order-No. : 2952

LED orientation light

Order-No. : 2951

**Operation- and
Assembly Instructions**

1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

Failure to observe the instructions may cause damage to the device and result in fire and other hazards.

Danger of electric shock. Always disconnect device before working on it. At the same time, take into account all circuit breakers that supply dangerous voltage to the device.

The device is not suitable for use in safety systems or as an emergency light.

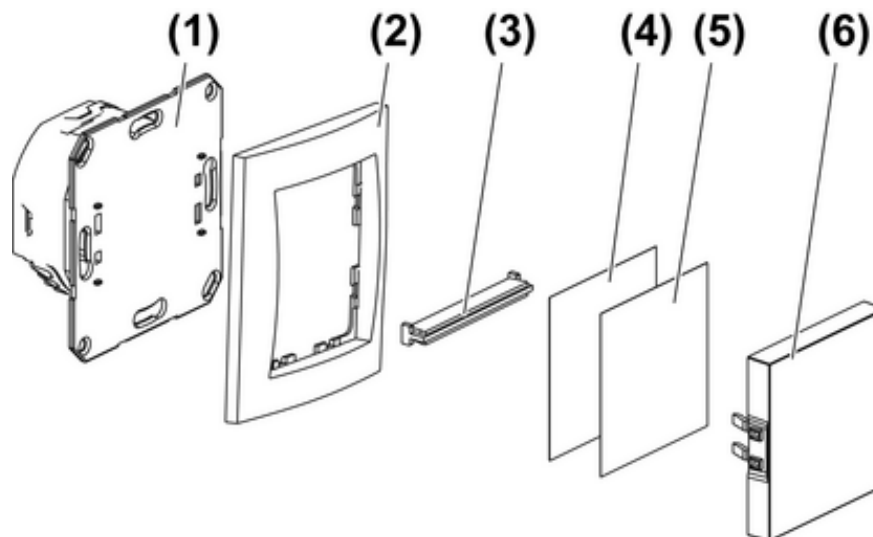
Fire hazard. Do not operate the LED luminaires on a dimmer. The LED luminaires cannot be dimmed.

The LED luminaires may not be operated on an electronic switching insert (e.g. Tronic or Triac insert). The switching inserts could be damaged.

These instructions are an integral part of the product, and must remain with the end customer.

2 Device components

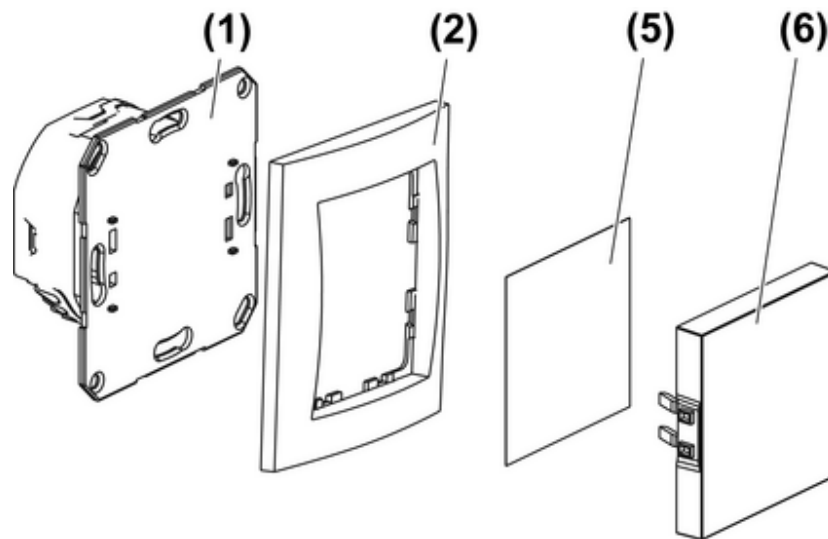
Signal lamp (picture 1)



picture 1

- (1) Flush-mounted insert
- (2) Frame
- (3) Separating strip
- (4) Printed film, optional
- (5) Light-scattering film
- (6) Cover

Orientation light (picture 2)



picture 2

- (1) Flush-mounted insert
- (2) Frame
- (5) Light-scattering film
- (6) Cover

3 Function

Intended use

- LED luminaire for orientation or indication
- Can be operated by means of external push-button or switch
- Installation in appliance box to DIN 49073

Product characteristics of LED signal lamp

- Two-colour signal lamp; can be used, for example, as an access control
- Can be used in switch combinations or individually
- Can be switched between red and green via an external switch
- Individually labelled film can be inserted
- i** Visible differences in the brightness and colour rendering are possible due to manufacturing tolerances in production of the LEDs.

Product characteristics of LED orientation light

- Can be used in switch combinations or individually
- Makes it easier to find switches or to orient oneself in dark rooms.
- Individually labelled film can be inserted
- The colour can be switched via an external push-button
- Light colours white, blue, orange, red, green and colour sequence can be called up via installation button
- The colour sequence can be stopped at any point
- Brightness can be changed using internal potentiometer
- i** Visible differences in the brightness and colour rendering are possible due to manufacturing tolerances in production of the LEDs.

4 Operation

Switching the LED signal lamp

The colours red and green can be switched or changed over individually with a series switch or changeover switch.

- Operate switch.
The signal lamp switches to red, green, or off.

Switching the LED orientation light

The luminaire is switched on or off with a switch or switching contact.

The luminaire is switched off.

- Operate on/off switch.
The orientation light lights up white briefly and then switches to the colour before the mains interruption, or starts the colour sequence. The colour sequence always begins with violet, magenta.

Setting the colour or colour sequence of the LED orientation light

The colour setting for the orientation light is performed using an additional push-button.

Each press on the button switches it onwards by one colour. There are seven possible colours:

white

blue

orange

red

green

colour sequence

stopped colour sequence

Orientation light is switched on.

- Press colour selection push-button briefly.
The orientation light switches to the next colour.

Press the colour selection push-button until the desired colour or the colour sequence are active.

Stopping the colour sequence at the desired point

In order to set an individual colour, the colour sequence can be stopped at any desired point. The complete colour sequence takes about 5 minutes.

The colour sequence is active.

- Press colour selection push-button briefly.
The colour sequence stops and the current colour is retained.

i The colour remains even after a mains interruption.

i To start the colour sequence again, select the colour sequence again using the colour selection push-button.

Synchronising LED orientation lights

If multiple orientation lights are operated in parallel, it may occur that after the orientation lights switch onwards they may not light up in the same colour, or that the colour sequence may diverge. In this case all of the luminaires can be reset.

- Press colour selection push-button longer than 2.5 seconds.
The orientation lights run through a reset and go out briefly.
- Release colour selection push-button.
The orientation lights light up white; state as supplied.

5 Information for electrically skilled persons

5.1 Fitting and electrical connection



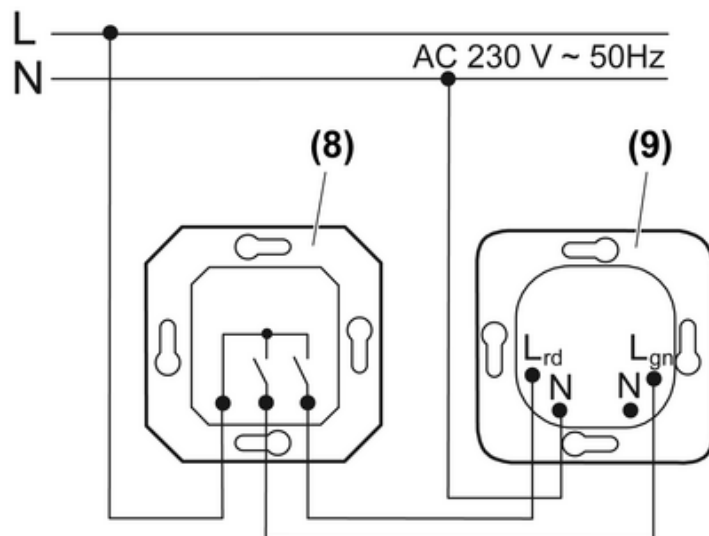
DANGER!

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before working on the device, disconnect the power supply and cover up live parts in the working environment.

Connecting and mounting LED signal lamp



picture 3: Connection example for signal lamp



CAUTION!

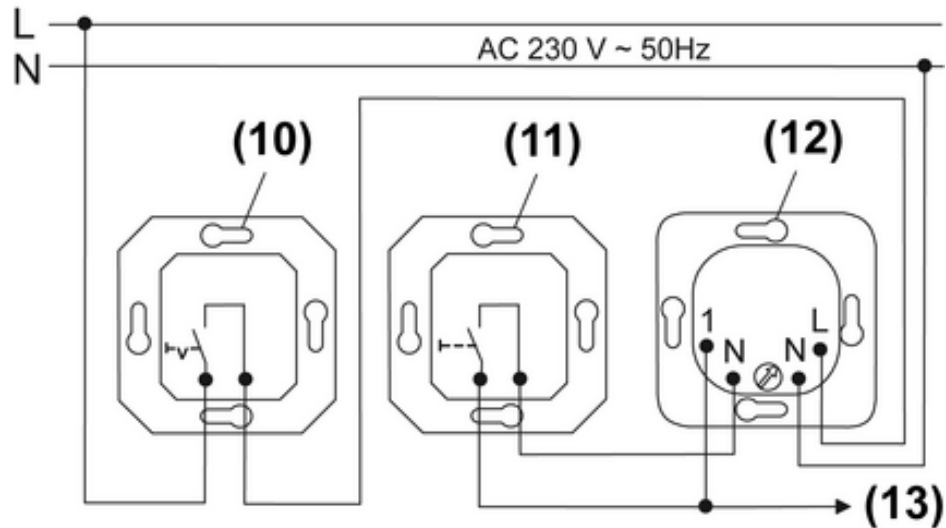
Fire hazard when the neutral conductor is looped through.

Do not loop neutral conductor through to other devices.

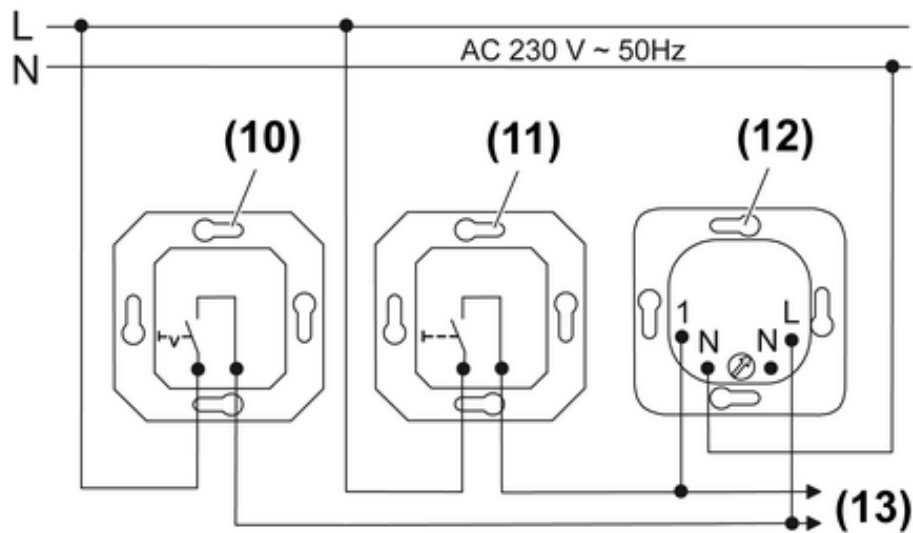
- Connect signal lamp as shown in the connection example (picture 3). Instead of the series switch (8), which can be used to switch the two colours separately, it is also possible to use a change-over switch, which serves merely to switch between the two colours.
L_{rd} = activation of the colour red
L_{gn} = activation of the colour green
- Mount the insert (9) in an appliance box. The terminals must be at the bottom.
- Complete the signal lamp (Figure 1).
- Switch on mains voltage.

Connect and mount the LED orientation light

The following circuit examples show two options for installing the orientation light. In connection example (picture 4) the neutral conductor is keyed on control input "1" in order to implement the colour changeover. In connection example (picture 5) the phase conductor is keyed to control input "1" in order to implement the colour changeover.



picture 4: Connection example for colour changeover via neutral conductor



picture 5: Connection example for colour changeover via phase conductor

- (10) Installation switch
- (11) Colour selection push-button
- (12) Orientation light insert
- (13) Option to connect additional orientation lights

**CAUTION!**

**Fire hazard when the device is connected to direct voltage.
Connect only to alternating voltage AC 230 V ~ 50 Hz.**

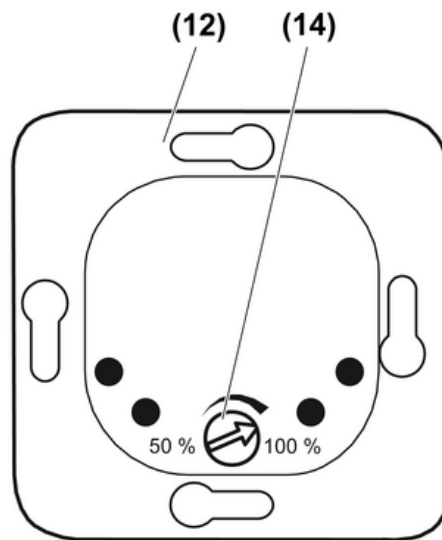
**CAUTION!**

**Fire hazard when the neutral conductor is looped through.
Do not loop neutral conductor through to other devices.**

- Connect orientation light according to connection example (picture 4) or (picture 5).
- Connect additional orientation lights with the first orientation light via (13).
- Mount the insert (12) in an appliance box. The terminals must be at the bottom.
- Complete the orientation light (Figure 2).
- Switch on mains voltage.

Changing the brightness of the LED orientation light

In the state as supplied the orientation light is at maximum brightness.



picture 6

- Switch off mains voltage.
- Remove lamp cover.
- Adjust potentiometer (14) (picture 6).
- Fit lamp cover again.
- Switch on mains voltage.

6 Appendix**6.1 Technical data****LED signal light, Order-No. 2952**

Rated voltage	AC 230 V ~
Mains frequency	50 Hz
Power consumption	approx. 2.0 VA
Power factor	approx. 0.90
Ambient temperature	-15 ... 40 °C
Number of LEDs	4
Connection	
Single stranded	1.5 mm ²

LED orientation light, Order-No. 2951

Rated voltage	AC 230 V ~
Mains frequency	50 Hz

LED signal light, LED orientation light

Power consumption	max. 5.6 VA
Power factor	approx. 0.17
Ambient temperature	-15 ... 40 °C
Number of LEDs	4
Connection	
Single stranded	1.5 mm ²

6.2 Accessories

Cover for LED orientation light and LED signal light. Order no. 1248..

6.3 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

Our products are under guarantee within the scope of the statutory provisions.

If you have a warranty claim, please contact the point of sale or ship the device postage free with a description of the fault to the appropriate regional representative.

Berker GmbH & Co. KG

Klagebach 38
58579 Schalksmühle/Germany
Telefon + 49 (0) 2355/905-0
Telefax + 49 (0) 2355/905-111
www.berker.de