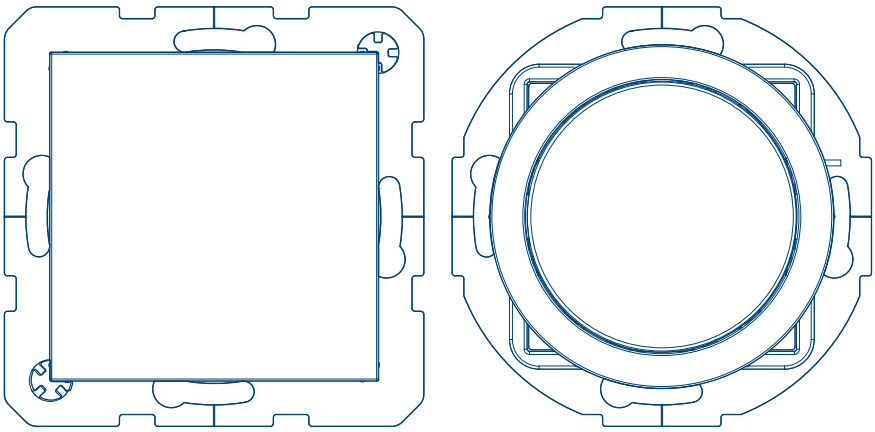
Operating and assembly instructions

Switches and systems

LED signal light



LED signal light, white, RGB or red/green lighting

WAF658xWG, WLF665xx

CE

hager

1 Safety instructions

Electrical devices must only be installed and assembled by a qualified electrician in accordance with the relevant installation standards, guidelines, regulations, directives, safety and accident prevention directives of the country.

Danger due to electric shock. Disconnect mains supply before working on the device or load. Take into account all circuit protection devices that supply dangerous voltages to the device or load.

Failure to comply with these installation instructions may result in damage to the device, fire or other hazards.

Device is not suitable for use in safety technology or as emergency light.

Fire hazard. Do not operate device on a dimmer. The lamps are not dimmable.

If several devices are to be connected via the contact operating modes, it is absolutely essential that all devices are operated via the same phase. Otherwise devices may be destroyed.

Do not operate device on an electronic switch insert (e.g. Tronic or Triac insert). The switch insert may be damaged.

2 Design and layout of the device

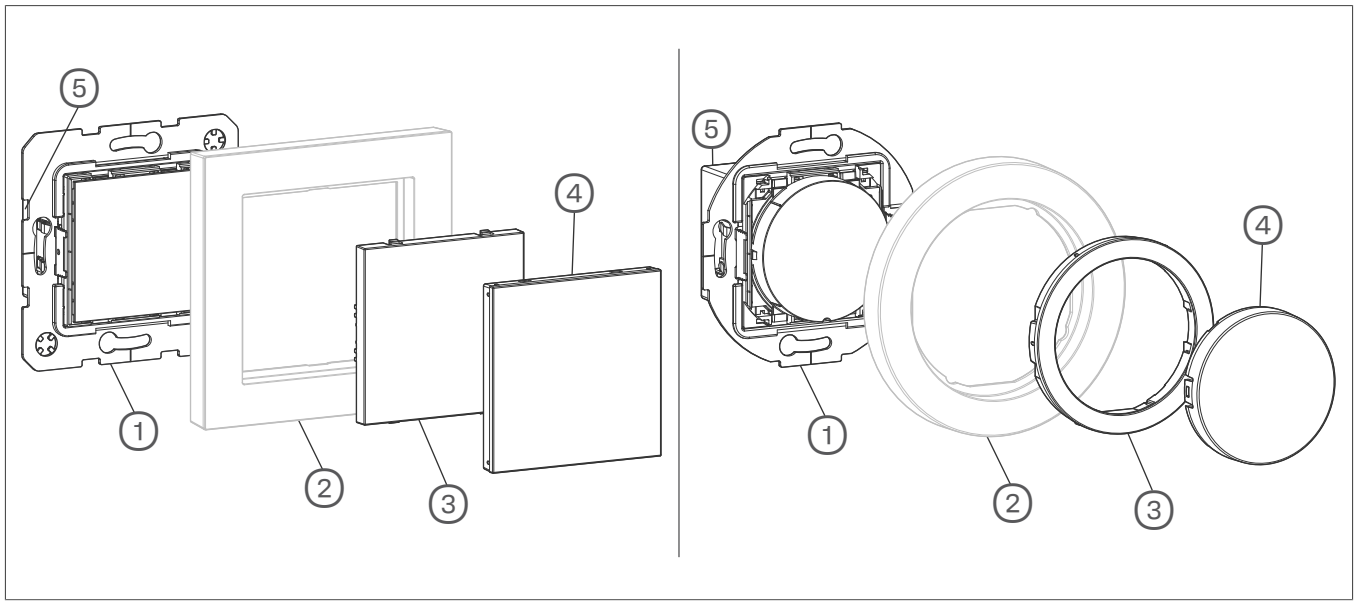


Fig. 1: LED signal light A.x/C.x (left), round series (right)

1. LED signal light with off-/change-over switch
2. Design frame (not included)
3. Printed foils (optional, see accessories)
4. Cover
5. Centre piece

3 Function

Correct use

- LED light for signalling e.g. notices, information, messages or warnings
- Operation via separate push button or switch
- Installation possible in switch combinations or individual
- Installation into wall box according to DIN 49073

3.1 Product characteristics

Note

Due to manufacturing tolerances in LED production, noticeable differences in brightness and colour reproduction are possible.

LED signal light, red/green lighting

- Two-coloured signal light, e.g. for access control.
- Switchable between red and green via separate switches
- Bi-colour foils with imprint of symbols for **Do not disturb/Clean room** and **Please enter/Please wait** are enclosed

LED signal light, RGB

- LED light for signalling notices, information or warnings
- The colour is switchable via an external push button
- Foils with imprint of symbols insertable (see accessories)
- Light colours cold white, warm white, blue, orange, red, green, purple (magenta) and colour sequence callable via push button
- Brightness modifiable via potentiometer
- Colour sequence can be stopped at any position via the push button.

LED signal light, white lighting

- LED light for signalling notices, information or warnings
- Switchable via separate switch
- Foils with imprint of symbols insertable
- Light colour cold white
- Brightness modifiable via potentiometer

4 Operation

LED signal light, red/green switch lighting

The colours red and green can be switched or changed over individually using a series switch or change-over switch.

- Press switch.
  The LED signal light switches to red, green or off.

LED signal light, switch white lighting

The LED signal light can be switched using an off-/change-over switch.

- Press off-/change-over switch.
  The LED signal light illuminates cold white or is switched off.

LED signal light, switch RGB

The LED signal light is switched on/off using a switch or switching contact.

☑ The LED signal light is switched off.

- Press on/off switch.
  The LED signal light lights up white for a short time and then switches to the colour prior to switching off the last time or starts the colour sequence.

Note

The colour sequence always starts with purple (magenta).

4.1 Operation of LED signal light, RGB

Setting colour

The colour of the LED signal light is set with a separate push button.
With each press of the push button, the colour sequence is switched by one colour state, in the sequence:

- cold white
- warm white
- Blue
- orange
- Red
- Green
- purple (magenta)
- Colour sequence
- stopped colour sequence

☑ The LED signal light is switched on.

- Press push button for a short time.
  The LED signal light changes to the next colour.
- Keep pressing the push button until the required colour or colour sequence is active.

Setting the colour via the colour sequence

The colour of the LED signal light can also be adjusted via the colour sequence.

Note

A complete colour sequence lasts about 5 minutes.

☑ The colour sequence is active.

- During the colour sequence, press the push button for a short time at any position.
  The colour sequence stops. The colour currently displayed is set.

Note

The last selected colour will remain stored even after a voltage interruption.

- To restart the colour sequence, select the colour sequence again with the push button.

LED signal light, synchronise RGB

If several LED signal lights are operated RGB in parallel, it is possible that the LED signal lights may not light up in the same colour or the colour sequence may run asynchronously after switching. In this case, all LED signal lights can be reset.

- Keep the push button pressed for more than 2.5 seconds.
  The LED signal lights run through a reset and are switched off.
- Release push button.
  The LED signal lights light up white. The as-delivered state is restored.

5 Information for qualified electricians

5.1 Installation and electrical connection (Fig. 03, 04)

Danger

Electric shock when live parts are touched!

An electric shock can lead to death!

- Disconnect all connection cables before working on the device and cover any live parts in the area!

Warning

Risk of fire when looping through the neutral conductor.

- Do not loop the neutral conductor through to other devices.

Connection and installation of the device

LED signal light, white lighting

1. Wire LED signal light with off-/change-over switch (7) (Fig. 2).
2. Install insert (8) into a wall box. The connecting terminals must be at the bottom.
3. Complete the LED signal light (Fig. 1).
4. Position the frame (2) over the supporting ring of the insert (1).
5. Place a foil (3) under the cover.
6. Push the cover (4) onto the insert until it clicks into place.
7. Snap on (5) centre piece.
8. Switch on the mains voltage.

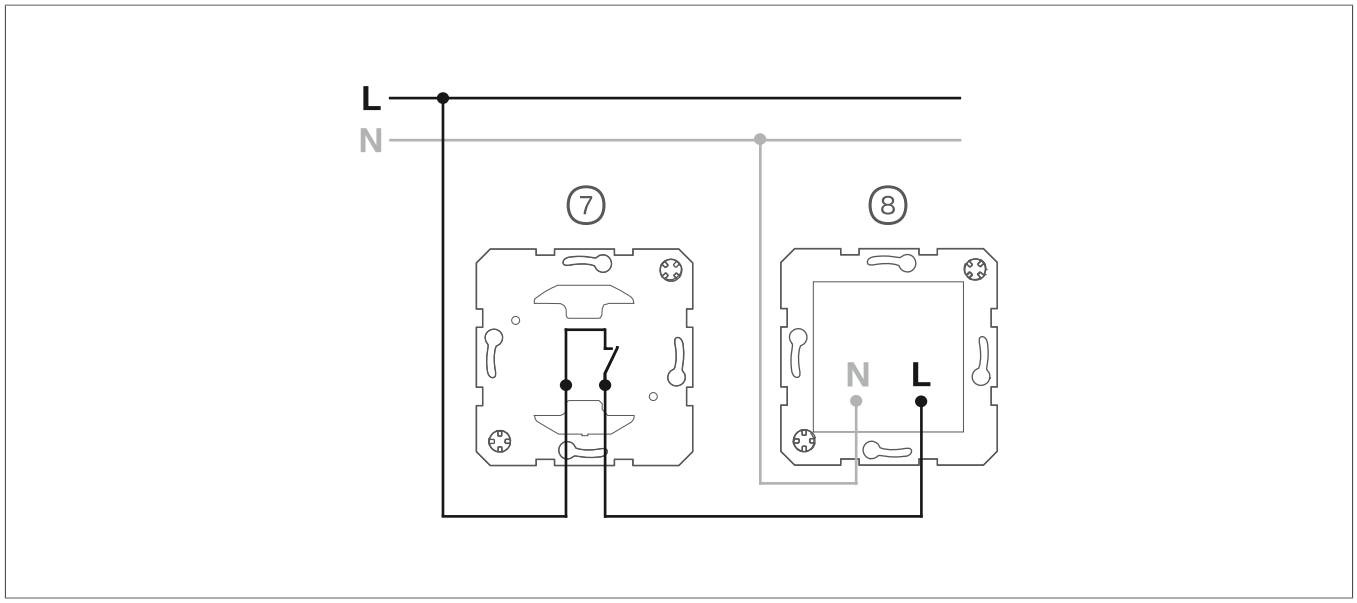


Fig. 2: Connection example of LED signal light, white lighting

(7) Off/change-over switch
(8) Insert of LED signal light, white lighting

LED signal light, red/green lighting

1. Connect LED signal light according to connection example (Fig. 3). Instead of the series switch (9), that can be used to switch both colours separately, a change-over switch can also be used to allow a simple change-over of both colours:
   - L_{rd}= activation of the colour red,
   - L_{gn}= activation of the colour green
2. Install insert (10) into a wall box. The connecting terminals must be at the bottom.
3. Complete the LED signal light (Fig. 1).
4. Position the frame(2) over the supporting ring of the insert.
5. Place a foil (3) under the cover if necessary.
6. Push the cover (4) onto the insert until it clicks.
7. Snap on (5) centre piece.
8. Switch on the mains voltage.

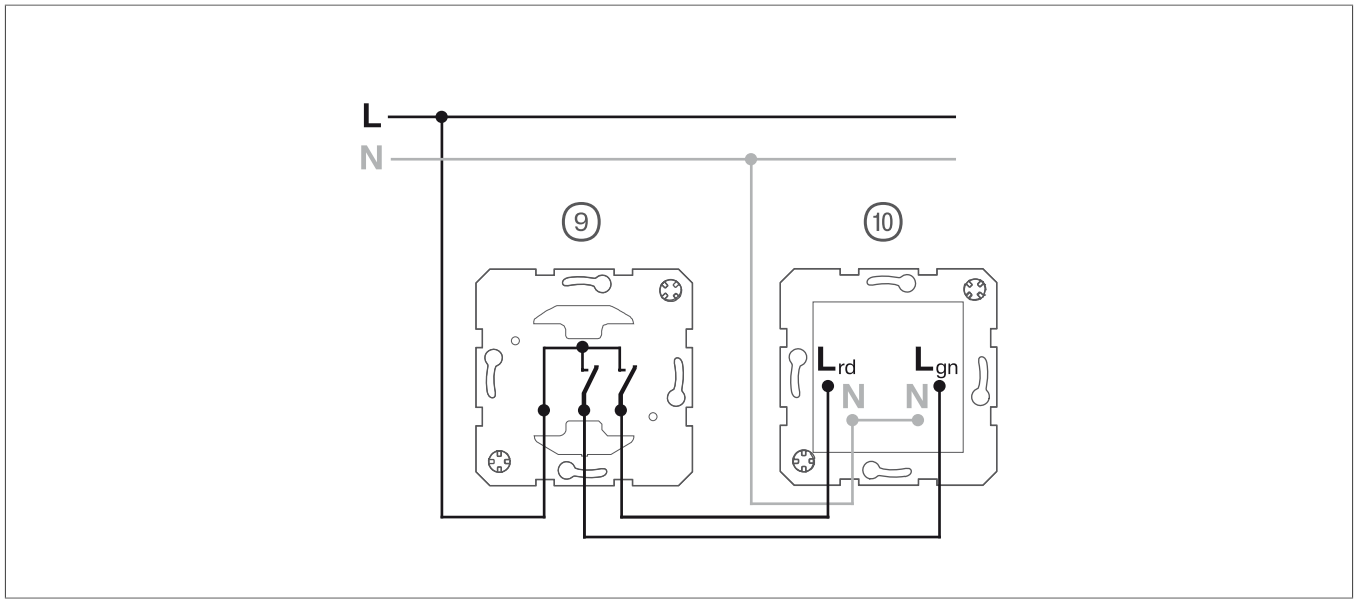


Fig. 3: Connection example of LED signal light, red/green lighting

(9) Series switch
(10) Insert of LED signal light, red/green lighting, N terminals bridged

LED signal light, RGB

The following example circuits show two ways to connect the LED signal light. In the connection example (Fig. 4, left) the neutral conductor is pressed onto control input **1**, in order to switch over the colour. In the connection example (Fig. 4, right) the outer conductor is pressed onto the control input **1**.

Warning

Fire hazard if the device is connected to DC voltage

- Connect LED signal light with RGB lighting only to AC voltage 230 V~, 50 Hz.

1. Connect the LED signal light, RGB according to the connection example (Fig. 4) or (Fig. 1).
2. If required, connect additional LED signal lights, RGB via (14).
3. Install insert (13) into a wall box. The connecting terminals must be at the bottom.
4. Complete the LED signal light (Fig. 1).
5. Position the frame (2) over the supporting ring of the insert (1).
6. Place a foil (3) under the cover if necessary.
7. Push the cover (4) onto the insert until it clicks into place.
8. Snap on (5) centre piece.

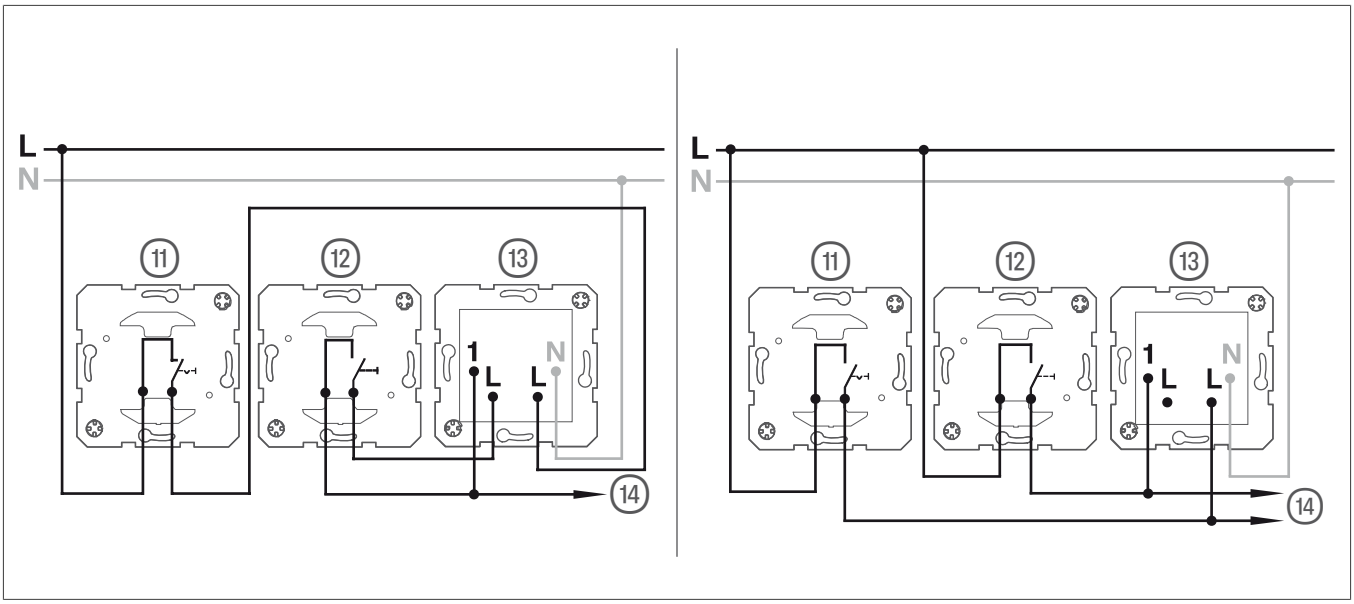


Fig. 4: Connection example of colour switching via outer conductor looped (left) / not looped (right)

(11) Off/change-over switch
(12) Push button
(13) Insert of LED signal light, RGB
(14) Connection possibility of additional LED signal lights, RGB

Changing the brightness of the LED signal light

In the as-delivered state, the potentiometer (Fig. 5, (6)) is set to maximum brightness.

1. Switch off mains voltage.
2. Pull of centre piece (5) from the supporting ring.
3. Remove (2) frame.
4. Release the supporting ring from the wall box.
5. Pull the insert (1) out of the wall box.
6. Adjust the potentiometer (6) (Fig. 5).
7. Reinsert the insert into the wall box and screw tightly over the supporting ring.
8. Position the frame (2) over the supporting ring of the insert.
9. Snap on (5) centre piece.
10. Switch on the mains voltage.

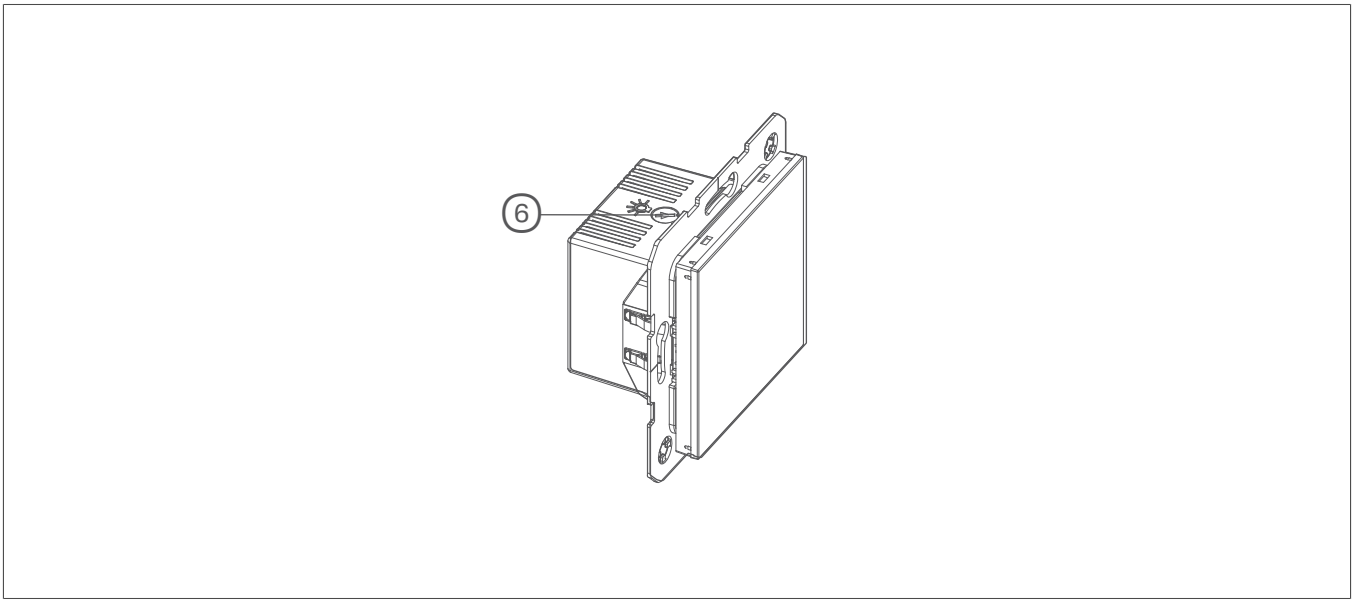


Fig. 5: Brightness adjustment

(6) Potentiometer for brightness (not with LED signal light, red/green lighting)

6 Appendix

6.1 Technical data

Nominal voltage	230 V~
Mains frequency	50/60 Hz
Number of LEDs	4
Conductor cross-section, single-stranded	≤2.5 mm²
Ambient temperature	-15° ... +40°C

LED signal light	WAF6552xx	WAF6553xx	WAF6551xx
Power consumption	Max. 2 W at 195 ... 265 V~, 50/60 Hz	Per colour max. 0.5 W at 230 V~, 50 Hz	Max. 1 W at 230 V~, 50 Hz
Power factor	Approx. 0.9		Approx. 0.17

6.2 Accessories

For red/green LED signal lights:	
Bi-colour foil with imprint	WAA409, WAA4095
For RGB and white LED signal lights:	
Foil with imprint	WAA4091, WAA4092, WAA4093

6.3 Disposal note

Correct Disposal of this product (Waste Electrical & Electronic Equipment).

(Applicable in the European Union and other European countries with separate collection systems).

This marking shown on the product or its documentation indicates that it should not be disposed of with other household waste at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this device from other types of waste. Recycle the device responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this device for environmentally safe disposal.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial waste for disposal.

Suitable for use throughout Europe CE and Switzerland.

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