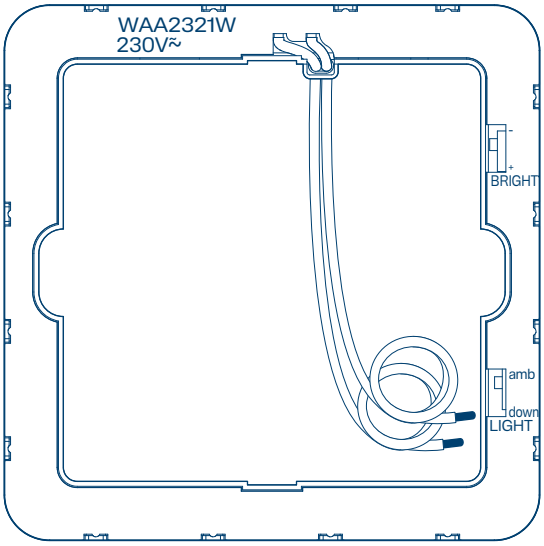
Assembling and installation instructions

Switches and systems

LED light ring



LED light ring for 1-gang cover frame downlight/ ambient lighting A.x/C.x

WAA2321W

CE

hager

EN

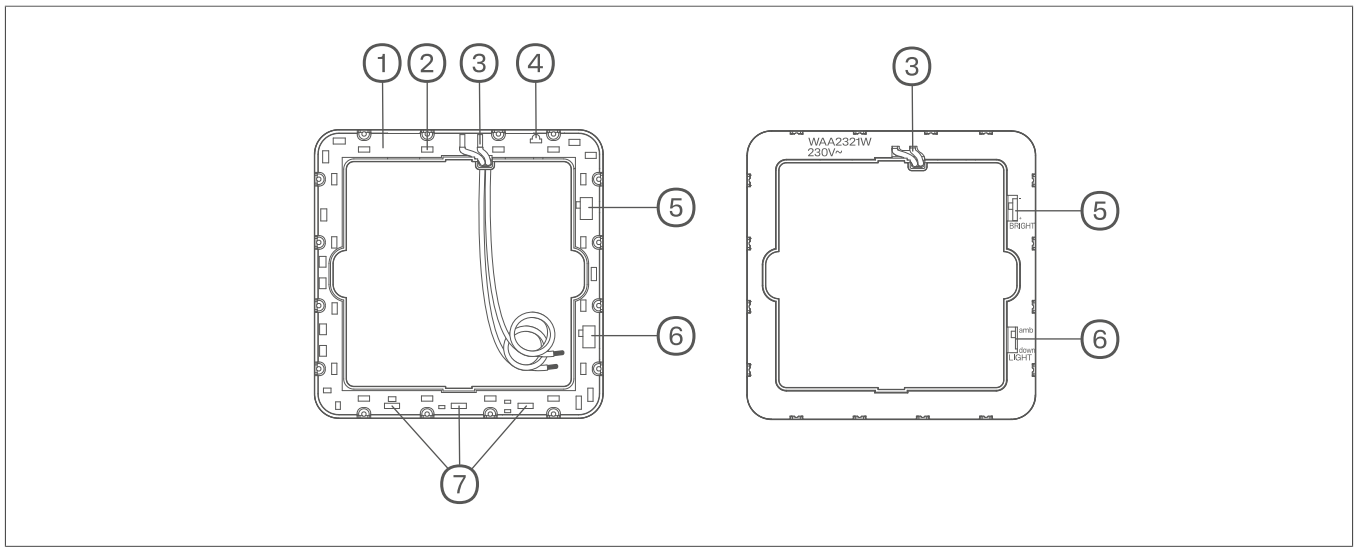
1 Safety instructions

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

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

2 Design and layout of the device

The light ring consists of three permanently assembled components. The base is a white plastic ring in which the electronics with the LEDs are located. The upper and side parts are covered with a milky-white translucent cover.



1. Electronics board
2. LED for all-around light (ambient lighting)
3. 230-VAC connecting cables
4. Light sensor
5. Brightness DIP switch **BRIGHT (+/ -)**
6. DIP switch for **LIGHT down/amb** function (downlight/ambient lighting)
7. 3 x LED for downlight
8. Rocker or centre piece[1]
9. 1-gang cover frame, illuminated, A.x/C.x (WADx120xx)[1]
10. Insert[1]
11. Wall box[1]

[1] Not included in the scope of delivery!

3 Function

The light ring has been developed for the wiring accessories A.1/C.1, A.8/C.8 in plastic and material versions. Its function can be switched between downlight and ambient lighting via a DIP switch on the light ring. The brightness for the ambient lighting can be adjusted in two stages using a second DIP switch. With the **down** setting for downlight, three LEDs generate a light beam pointing exclusively downwards toward the floor or stairs, so this setting is useful at lower mounting heights. A brightness sensor ensures that the light beam is only switched on when the ambient brightness is insufficient.
In ambient lighting mode, a homogeneous light beam is thrown against the wall all around the cover frame. In this setting, the lighting is permanently switched on. It can be set to two brightness levels, high/low (**+**/ **-**).

3.1 Correct use

- For indirect lighting of wall surfaces around an operating section or below a junction
- Suitable for illuminating insufficiently lit mounting locations, as an orientation light in the dark or for a stylish ambience at an operating section
- Only for installing under a 1-gang cover frame, can be illuminated by the above-mentioned wiring accessories
- Not suitable for multiple combinations
- Neutral conductor required
- Only for use in indoor areas free of dripping and splashing water

Note

The function of the product cannot be changed due to the type of wiring.

3.2 Product characteristics

- Switch for each function and brightness level
- Switching without the risk of touching live parts

In the downlight setting:

- Lights the area below the cover frame at a fixed brightness
- Integrated brightness sensor switches the lighting on automatically at twilight

In the ambient lighting setting:

- A uniform light ring around the cover frame illuminates the wall
- Brightness can be adjusted in two steps

4 Information for qualified electricians

4.1 Installation and electrical connection

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!

Connection and installation of the light ring

1. Feed the pre-assembled light ring (1) cables (3) through the upper mounting hole on the supporting ring of the insert (10).
2. Connect the light ring (1) and insert (10) to **L** and **N** of the connecting cable via connection terminals.
3. Store the connection terminals in the wall box (11) properly so that the cables are not damaged.
4. Insert the module (10) into the wall box (11) in the correct position and secure it with screws on the left and right.

Caution

In order not to damage the cables in the wall box (11), it is not recommended to fix them in position using the mounting claws of the insert.

5. Use a narrow tool to push the two DIP switches (5), (6) to the desired positions.

Note

If the DIP switch (6) is in the **down** position, the brightness cannot be changed.

6. Hold the light ring (1) over the insert (10) so that the printing is legible.
7. Place the 1-gang cover frame (9) above it and fix in position by attaching a rocker (8) or screwing on a centre piece.
   When the power supply is restarted and when the DIP switch (6) is set to **amb**, the operating section is illuminated on all sides.

4.2 Functional test

☑ The DIP switch (6) is set to the **down** position.

- Cover the brightness sensor (4) over a large area.
  The downlight switches on.

Note

Functional testing of the downlight can only be carried out properly in low ambient brightness.

5 Appendix

5.1 Technical data

Nominal voltage	230 V~, +10%/-15n%
Mains frequency	50 Hz
LED colour temperature	5500 to 6000 °K
Switch-on brightness level downlight	Approx. 90 lx
Pre-assembled connecting cables	140 mm
Creepage distances on PCBA board	> 3 mm
Relative humidity	Max. 95% at 20°C
Operating temperature	0 ... +40°C
Storage/transport temperature	-25 ... +70°C
Degree of protection	IP20
IK impact resistance	IK05
Dimensions (W x H x D)	80.5 x 80.5 x 10 mm

Consumption:

Setting	Current	Consumption
Downlight **down**:		
OFF/ ON	10 mA	0.5 W
Ambient lighting **amb**:		
Sufficient (**-**)/ Bright (**+**)	10 mA	0.7 W

5.2 Accessories

1-gang cover frame, illuminated	WADx120xx

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