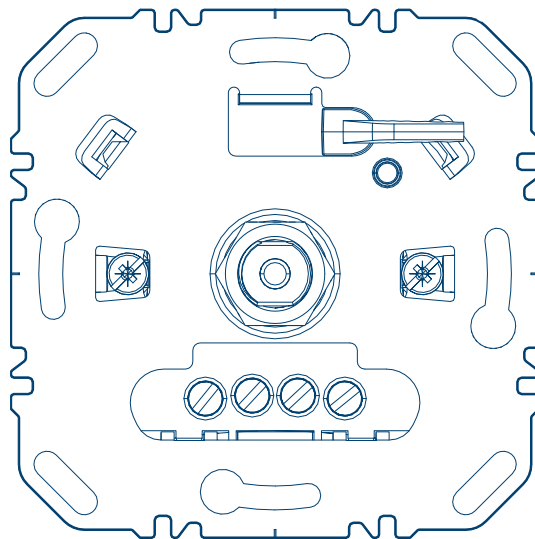


Light control

Rotary dimmer



Connected rotary dimmer
WAC4010



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1 Introduction

1.1 About these instructions

These instructions describe the safe and correct installation and commissioning of the connected rotary dimmer.

The device is part of the modular electronics platform, which can be connected via the Matter wireless standard.



Additional information

Additional settings are described in a separate configuration guide.

► see configuration instructions



Observe the general terms of use:

► developer.hager.com/terms-of-use

2 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.

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

Hazard due to electric shock. The device is not suited for safe disconnection of the mains supply. Even when the device is switched off, the load is not galvanically separated from the mains supply.

Risk of destruction if the set operating mode and load type do not match. Set correct operating mode when connecting or exchanging the load.

3 Scope of delivery

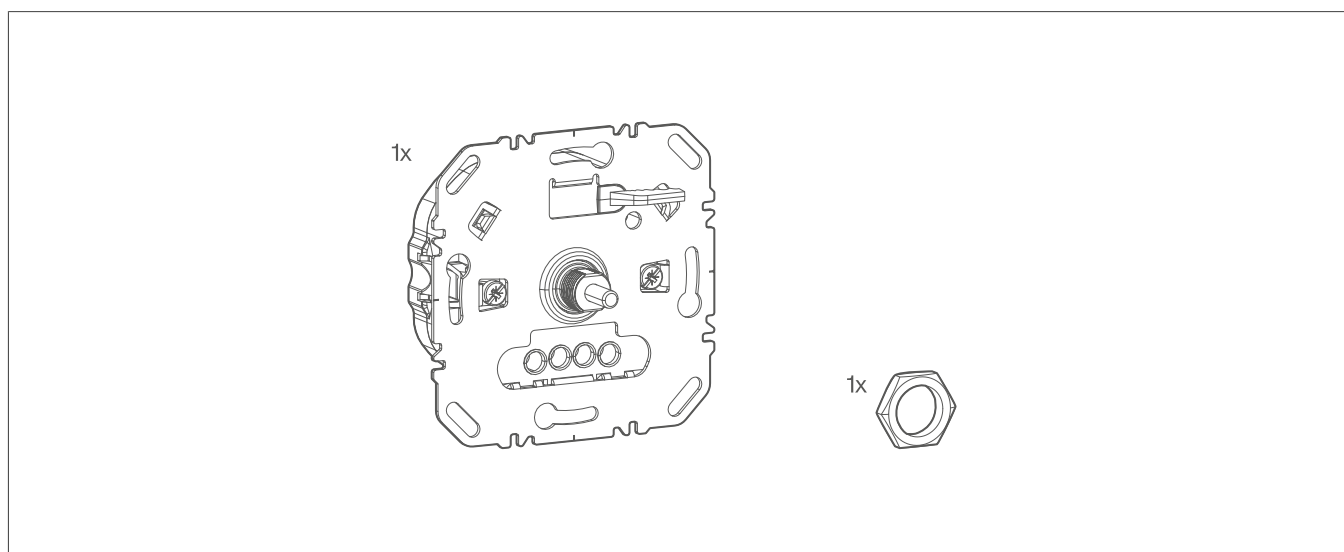
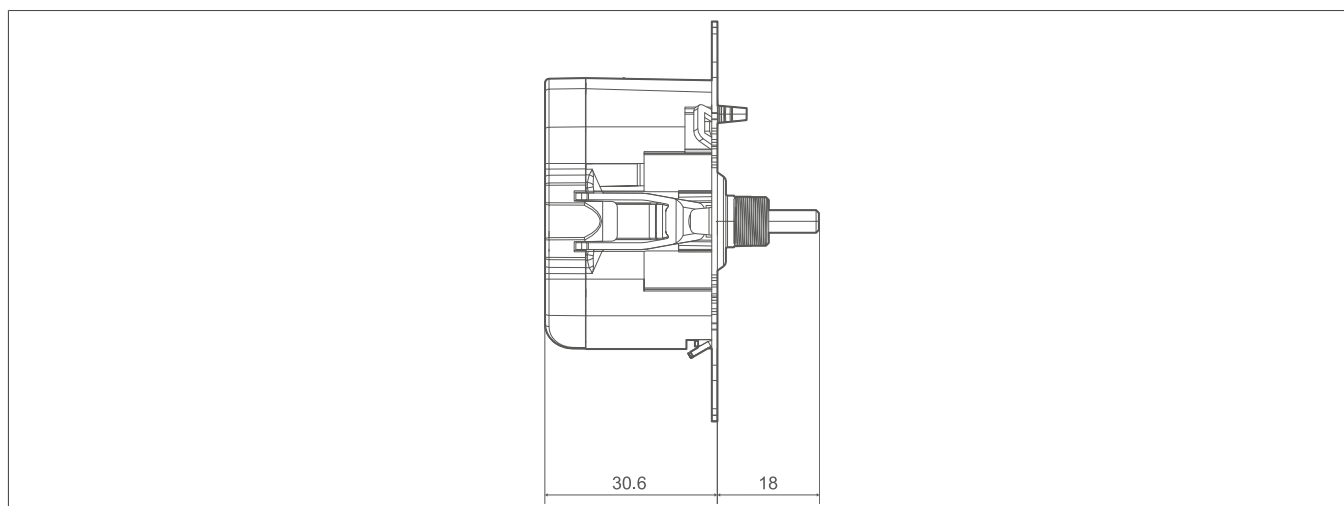


Fig. 1: Scope of delivery WAC4010

Dimensions



4 Design and layout of the device

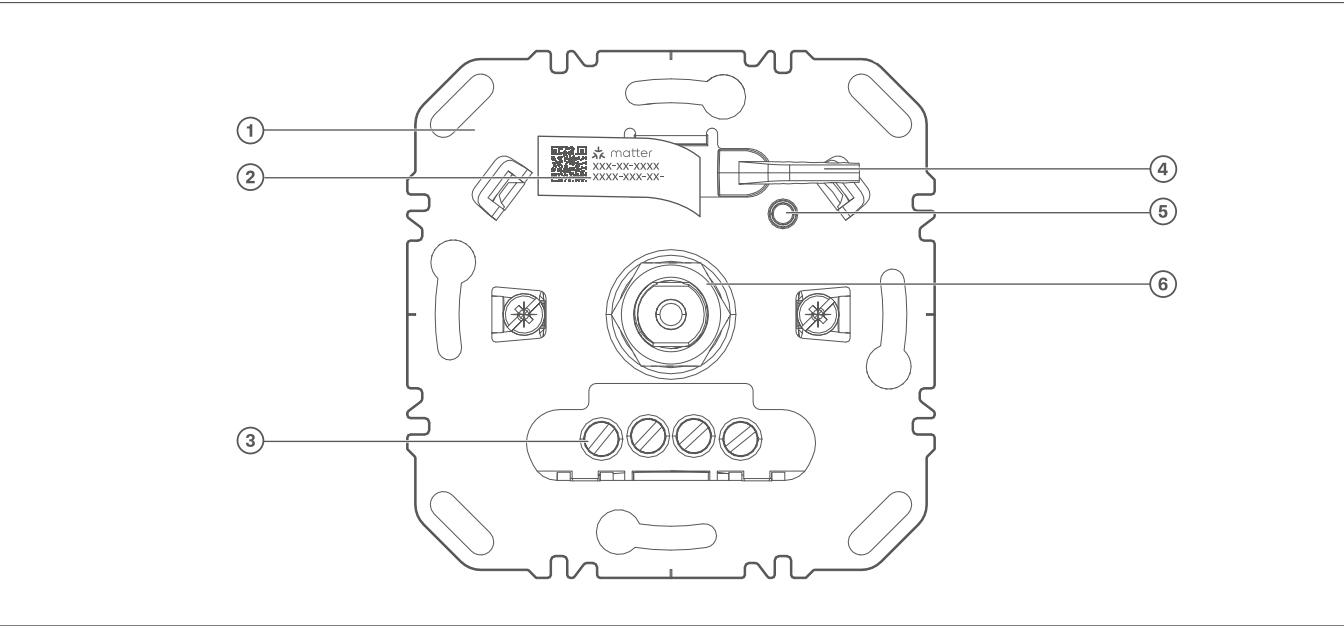


Fig. 2: Design and layout of the device WAC4010

- ① Supporting ring
- ② QR code for Matter commissioning
- ③ Screw terminals
- ④ Status LED
- ⑤ cfg button
- ⑥ Nut

5 Function

The rotary dimmer, which is Matter compatible, is used for light control of a connected load or a load connected via Matter.

System information

This device is part of the modular Hager electronics platform, which allows system components to communicate via Matter wireless signals. A Thread Border Router is required for optional wireless networking. The border router is typically integrated into the smart home system unit. A Thread Border Router is required for optional wireless networking. The border router is typically integrated into the smart home system unit. The Matter end device and the border router communicate in encrypted form using the power-efficient Thread wireless network protocol. Hager Matter products create a Thread mesh network that routes signals efficiently, improving both range and signal quality. Configuration and control is performed using the app for the connected smart home system (e.g. Apple Home, Samsung SmartThings, Amazon Alexa or Google Home). All Matter-enabled devices can be operated together in one system. The number of devices depends on the smart home system.

5.1 Intended use

- Switch and dim lighting
- Installation into wall box according to DIN 49073
- Can be connected via smart home systems that support the Thread wireless standard
- The number of connected devices depends on the smart home system used
- Only suitable for use in indoor areas with no drip and no spray of water
- Operation with appropriate cover

5.2 Product characteristics

General product characteristics

- The device works in accordance with the phase-cut on or phase cut-off principle
- Automatically or manually setting the dimming principle suitable for the load
- Switch ON/OFF for non-dimmable loads
- Displays the set operating mode by means of an LED
- Operation without neutral conductor possible
- Switch on using bulb-preserving soft start
- Switch on using the last set brightness or stored switch-on brightness level
- Switch-on brightness level can be permanently stored
- Minimum brightness can be permanently stored
- Maximum brightness can be stored permanently
- Extension units can be connected
- Electronic short-circuit protection with permanent switch-off in the event of a short circuit (> 100 ms)
- Electronic overheating protection

Matter product characteristics

- Matter certified
- Can be integrated into smart home systems that support Matter (e.g. Apple Home, Google Home, Amazon Alexa or Samsung Smart Things)
- Matter functionality depends on the respective smart home system
- Matter commissioning via smartphone or tablet using the Bluetooth Low Energy wireless standard and the app for the smart home system

- Operates with the Thread wireless standard
- Can be updated using smart home apps

6 Operation

The device can be operated locally or via a smart home system. For manual operation, the lighting is controlled directly on the device by turning and pressing the setting knob. Alternatively, the integrated control via Matter allows for remote operation. The allows the device to be integrated and controlled via an app, voice assistant or automation in compatible smart home systems.

Operation at the main unit and a rotary dimmer extension is identical.

Switch the light or set brightness

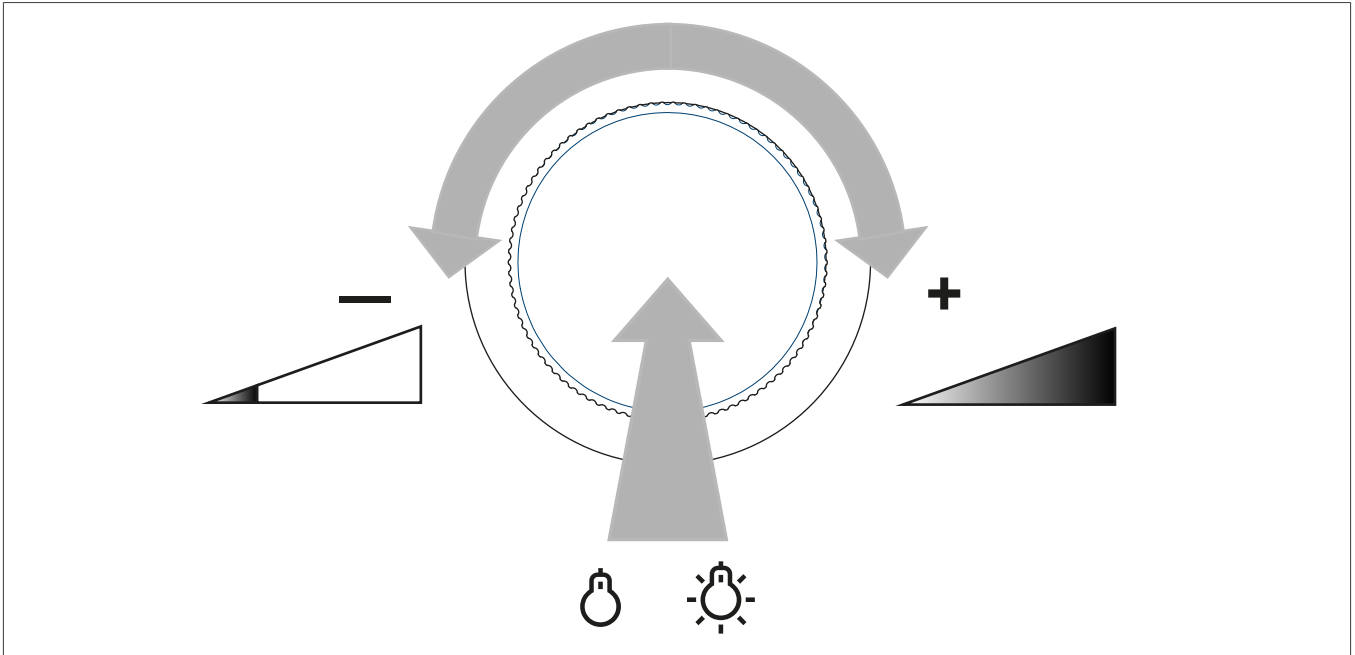


Fig. 3: Switch on the light or adjust the brightness

Switch the light on or off

- Briefly press the setting knob.

Reduce the brightness

- Turn the setting knob anti-clockwise.

Increase the brightness

- Turn the setting knob clockwise.

Turn on the light with minimum or maximum brightness

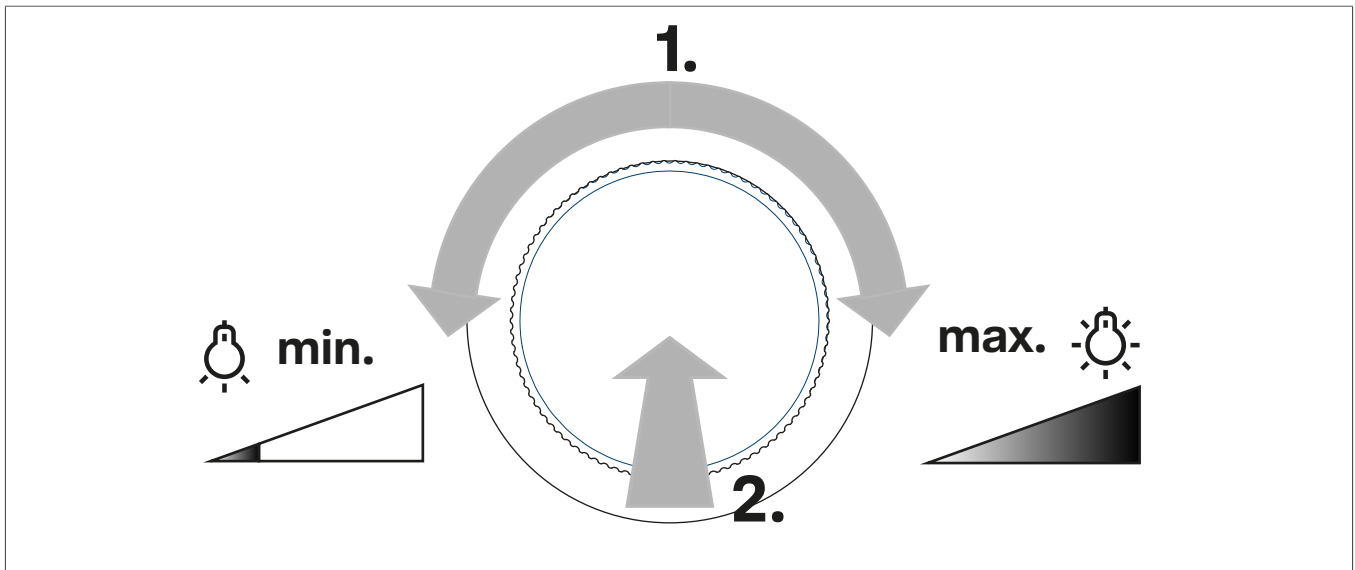


Fig. 4: Turn on with minimum or maximum brightness

☑ The light is switched off.

- ① Turn the setting knob a quarter of a turn.
- ② Briefly press the setting knob.

The light switches on at minimum brightness or maximum brightness.

Save switch-on brightness level

- ① Set brightness.
- ② Press and hold the setting knob > 5 seconds.

Switch-on brightness level is saved. As confirmation, the lighting switches off briefly and on again.

Delete switch-on brightness level

- ① Short press setting knob: Light switches on with stored switch-on brightness level.
 - ② Press and hold the setting knob > 5 seconds.
- The switch-on brightness level is deleted. The light is switched on at the last set brightness value. As confirmation, the light switches off briefly and on again.

Operation via push-switch button as extension unit

- Short press: Light switches on or off.
- Press and hold when the light is switched off: Switching on with minimum brightness.
- Press and hold when the light is switched on: Set brightness. The dimming process stops at the respective end value.



Note

The dimming direction changes with each new long actuation.

The switch-on brightness level cannot be saved or deleted using the button on the extension unit.

6.1 Special functions

Pressing and holding the setting knob activates special functions (Fig. 5).



Note

If no further actions are selected in a setting menu within the next 10 seconds, the device switches back to normal operation.

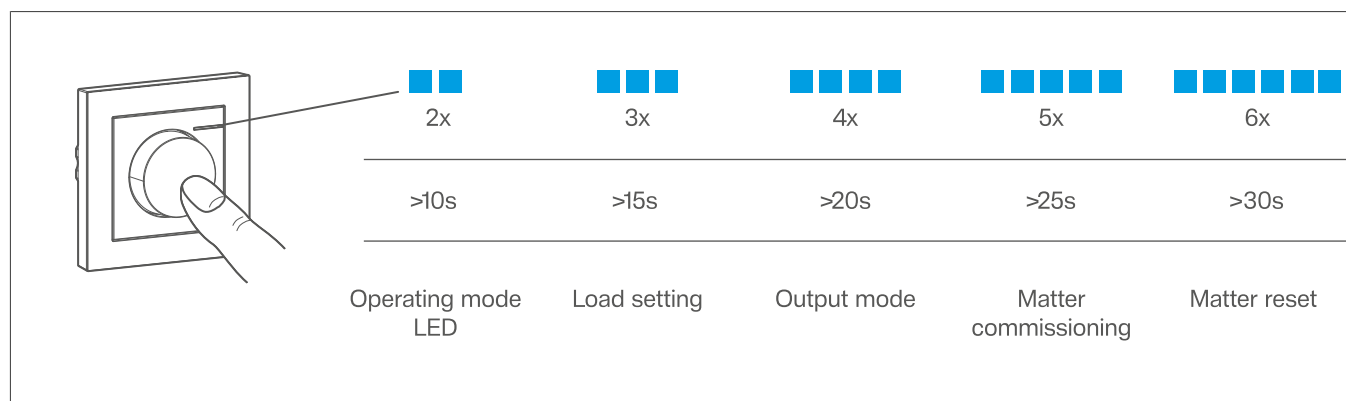


Fig. 5: Special functions

Special function	Duration of the button press	Status LED	Setting mode
Set LED operating mode	> 10 seconds	2x blue flash	- LED off - LED 100% day - LED 50% night - Status - Remotely controlled Smart Home
Load setting	> 15 seconds	3x blue flash	- Factory load setting* - LED mode 1 - LED mode 2 - Fine setting of minimum brightness - Fine setting of maximum brightness
Set the output mode	> 20 seconds	4x blue flash	- Standard dimming mode* - Switching operation
Matter commissioning	> 25 seconds	5x blue flash	- Starting the Matter commissioning
Reset the Matter connection	> 30 seconds	6x blue flash	- Matter reset

Table 1: Special functions and associated setting modes

* Factory setting

Set LED operating mode

Configure the white LED using the special function for the LED operating mode.

- 1 Press and hold the setting knob > 10 seconds, until the LED flashes 2x blue (Tab. 1).
The device is in selection mode and the LED repeatedly flashes 1x for the first setting mode.
- 2 Within 10 seconds, briefly press the setting knob several times to select the desired setting mode (Tab. 2).
- 3 Within 10 seconds, confirm the selection by pressing the setting knob > 2 seconds.
The confirmation is reported by the blue LED flashing once.

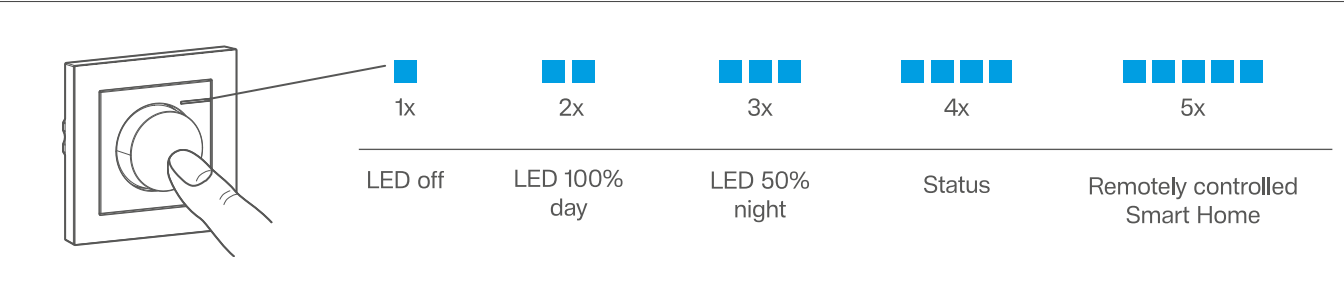


Fig. 6: Operating mode LED

Briefly press the button	Setting mode	Information for use
1x	LED off*	The LED on the device is not illuminated.
2x	LED 100% day	The LED on the device acts as an orientation light and is switched on at a fixed dimming value.
3x	LED 50% night	The LED on the device acts as an orientation light and is switched on at another fixed dimming value.
4x	Status	The LED on the device is used to indicate the status of the connected load. When activated, the light intensity of the LED automatically adjusts to the currently set dimming value.
5x	Remotely controlled Smart Home	The LED on the device is controlled from a smartphone via Matter. The LED can be switched on or off; it is not possible to dim the LED on the device.

Table 2: Set LED operating mode

* Factory setting

Load setting

If the switching/dimming performance of a universal dimmer is not satisfactory after commissioning, load setting may need to be performed.



Note

A load adjustment must be performed again after each change impacting the load.

☑ The load is switched off.

- 1 Press and hold the setting knob > 15 seconds, until the LED flashes 3x blue (Tab. 1).
The device is in selection mode and the LED repeatedly flashes 1x for the first setting mode.
- 2 Within 10 seconds, briefly press the setting knob several times to select the desired setting mode (Tab. 3).
- 3 Within 10 seconds, confirm the selection by pressing the setting knob > 2 seconds.
The confirmation is reported by the blue LED flashing once.

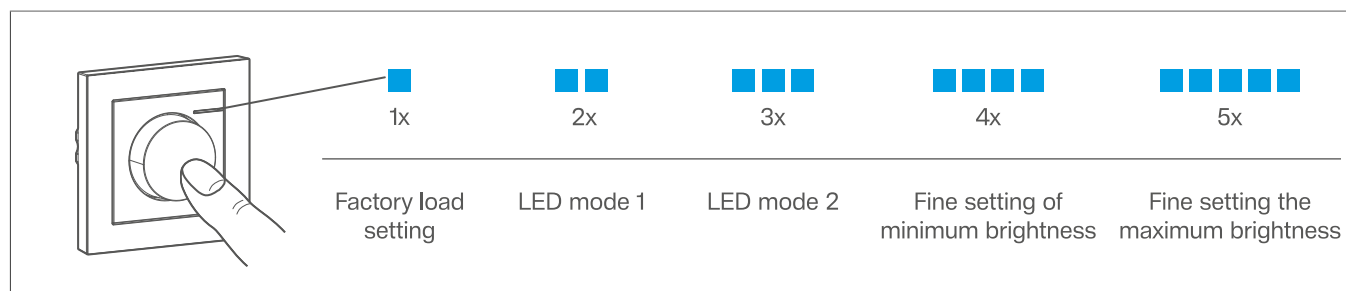


Fig. 7: Load setting

Briefly press the button	Setting mode	Duration and confirmation of the load setting	Information for use
1x	Factory load setting*	Settings duration: approx. 30 sec. Note: Load switching/dimming phases may occur during the automatic settings process. Finally, the device returns to normal operation.	Factory setting with automatic load recognition. If the switching/dimming performance is not satisfactory after this, restart selection mode and select the appropriate option.
2x	LED mode 1 (phase cut-on)	After approx. 5 seconds, the device returns to normal operation.	Recommended for lower 230 V LED loads up to max. 60 W if the switching/dimming performance is unsatisfactory after automatic load setting.
3x	LED mode 2 (phase cut-off)	Setting time ≤ 50 seconds Note: Load switching/dimming phases may occur during the automatic settings process. Finally, the device returns to normal operation.	Recommended for higher 230 V LED loads from 50 W, which can be operated in the phase cut-off. Observe manufacturer's data.

Table 3: Load setting

Briefly press the button	Setting mode	Duration and confirmation of the load setting	Information for use
4x	Fine setting of minimum brightness ^[1]	Five predefined minimum brightness levels are repeatedly cycled through for 2.5 seconds each (3 cycles). Once the connected load shows a satisfactory minimum brightness, confirm by pressing a button > 2 seconds. After approximately five seconds, the load flashes four times to confirm and remains switched on. Finally, the device returns to normal operation.	To optimise the switch-on behaviour, or if the load flickers in the lower dimming range, the minimum brightness setting can be manually adjusted.
5x	Fine setting of maximum brightness ^[1]	Five predefined maximum brightness levels are repeatedly cycled through for 2.5 seconds each (3 cycles). Once the connected load shows a satisfactory maximum brightness, confirm by pressing a button > 2 seconds. After approximately five seconds, the load flashes four times to confirm and remains switched on. Finally, the device returns to normal operation.	To optimise the switch-on behaviour, or if the load flickers in the upper brightness range, the maximum brightness setting can be manually adjusted.

Table 3: Load setting

* Factory setting

^[1] If the device is set to switching operation, setting mode cannot be performed.

Set the output mode

Output mode allows you to switch between stepless dimming and pure switching operation for non-dimmable lamps.

- 1 Press and hold the setting knob > 20 seconds, until the LED flashes 4x blue (Tab. 1).
The device is in selection mode and the LED repeatedly flashes 1x for the first setting mode.
- 2 Within 10 seconds, briefly press the setting knob several times to select the desired setting mode (Tab. 4).
- 3 Within 10 seconds, confirm the selection by pressing the setting knob > 2 seconds.
The confirmation is signalled by the blue LED flashing once.

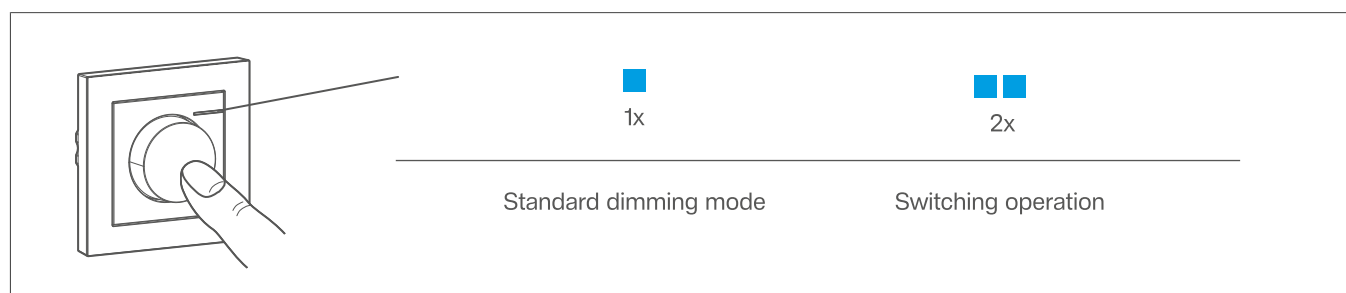


Fig. 8: Output mode

**Briefly press the
button**

Setting mode

Information for use

	Setting mode	Information for use
1x	Standard dimming mode*	Standard operation, for dimmable loads.
2x	Switching operation	Intended for non-dimmable loads, to switch them on or off.

Table 4: Set the output mode

* Factory setting

Matter commissioning

To make the device visible and ready to be added to a smart home system, connection mode can be activated for 15 minutes. The device can be operated normally while the connection mode is being signalled.



Note

There is a QR code sticker on the device that is identical to the QR code on the device. This is used to commission the device. The QR code sticker must be removed and stored by the customer so that the device can be recommissioned without removing the cover.

If the QR code on the button cover cannot be scanned, the digital code printed on the sticker can be entered manually under "Add device" in the relevant app.

☑ The load is switched off.

- 1 Press and hold the setting knob > 25 seconds, until the LED flashes 5x blue (Tab. 1).
The LED repeatedly flashes 1x to indicate the start of connection mode for 15 minutes.
- 2 Within 10 seconds, start connection mode for 15 minutes by pressing the setting knob > 2 seconds.
The confirmation is reported by the blue LED flashing once.

Connection mode is started for 15 minutes and the LED flashes once every 5 seconds. The connection mode enables the device to be configured in a smart home system (► see configuration instructions).

During commissioning, the Bluetooth function is active and the LED flashes 2x within 5 seconds.

Operating status	Status LED
Connection mode: The device is in pairing mode and ready for integration	Flashes blue, 1 s ON, 4 s OFF Cycle duration: 5 s
Commissioning phase: The device is configured and integrated into the target environment	Flashes blue, 1 s ON, 1 s OFF, 1 s ON, 2 s OFF Cycle duration: 5 s
Commissioning failed.	Flashes red quickly 100 ms ON, 100 ms OFF (10x) Cycle duration: 2 s
Identification phase: The device reports its presence to enable unique identification and assignment in the smart home system.	Flashes white quickly 200 ms ON, 200 ms OFF

Table 5: Matter commissioning



Note

If the LED flashes red quickly, the device is already paired with a smart home system. Re-commissioning requires calling up the device in the Smart Home app of the system with which it is currently paired. If access to the existing smart home system is not possible or if the device is to be integrated into another system, a Matter reset must be performed (see [Reset the Matter connection](#)).

Reset the Matter connection

The device deletes the connection data for the thread and the smart home systems.

- ① Press and hold the setting knob > 30 seconds, until the LED flashes 6x blue ([Tab. 1](#)).
- ② Within 10 seconds, confirm the Matter reset by pressing the setting knob > 2 seconds.
- ③ Remove the device from the Smart Home System app.

The confirmation is reported by the blue LED flashing once.

**Note**

To reconnect the device, it must be reintegrated into the Smart Home system.

7 Information for qualified electricians

7.1 Installation and electrical connection

Mounting location

The performance of the system can be optimised by selecting the best possible mounting location:

- Maintain a minimum distance of approx. 1 m between the transmitter and the corresponding receiver.
- A minimum distance of approx. 0.5 m must be respected from electronic devices that emit high-frequency signals, such as computers, electronic transformers or microwave devices.

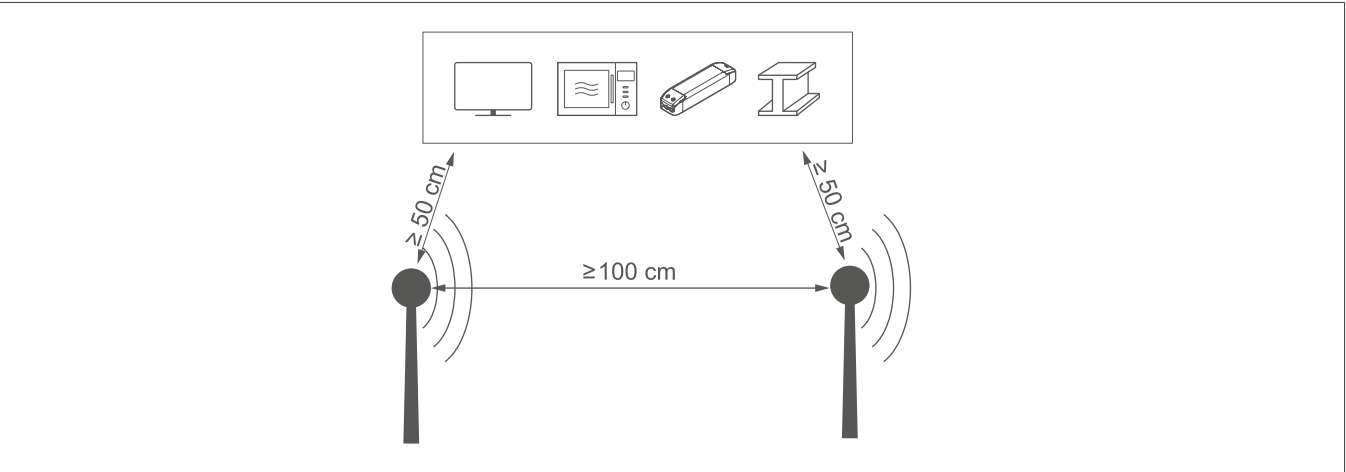


Fig. 9: Note on minimum distance

- Take material penetration into account (see Tab. 6).

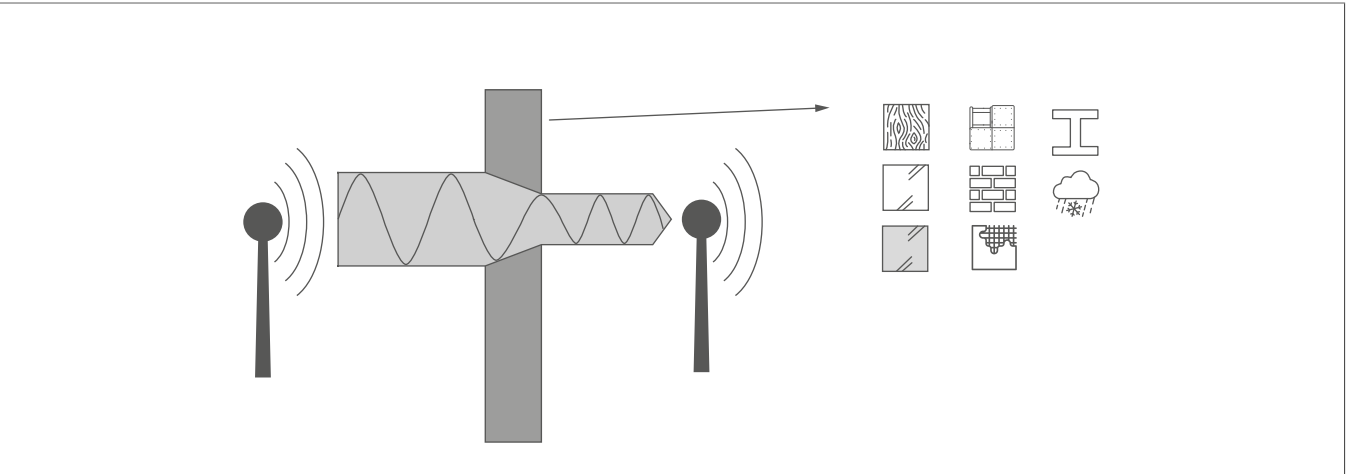


Fig. 10: Note on material penetration

Symbol	Material	Degree of material penetration
 	Wood, plaster, plasterboard, uncoated glass	approx. 90 %

Table 6: Material penetration

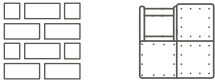
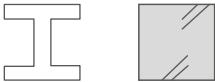
Symbol	Material	Degree of material penetration
	Brick, chip board	approx. 70 %
	Reinforced concrete, underfloor heating	approx. 30 %
	Metal, metal grids, aluminium laminates, coated glass	approx. 10 %
	Rain, snow	approx. 1 ... 40 %

Table 6: Material penetration



Note

Installing the device on or close to metal surfaces may cause interferences with the radio transmission.

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!



Connect a maximum of one 200 W LEDs per 16-A circuit breaker. When connecting transformers, observe the manufacturer's specifications.

The device takes into account the different electronic characteristics of most LED lamps on the market. However, it cannot be excluded that the desired results will not be achieved in individual cases.

The device distinguishes between two conditions immediately after power is supplied:

Condition	LED
The device is not integrated into a smart home system	Flashes white 500 ms ON, 500 ms OFF Cycle duration: 5 s
The device is already integrated into a smart home system	Does not flash

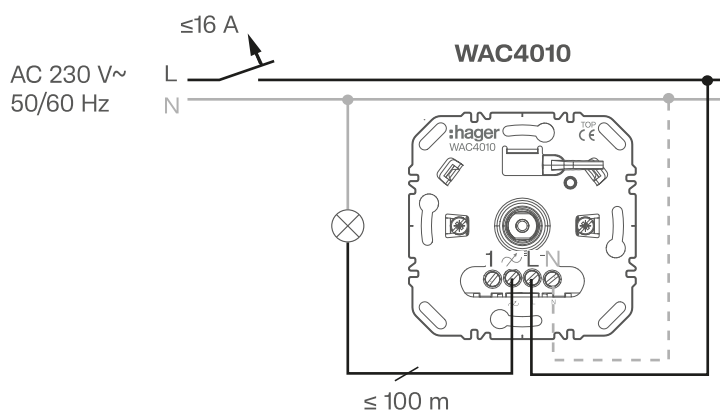


Fig. 11: Connection diagram

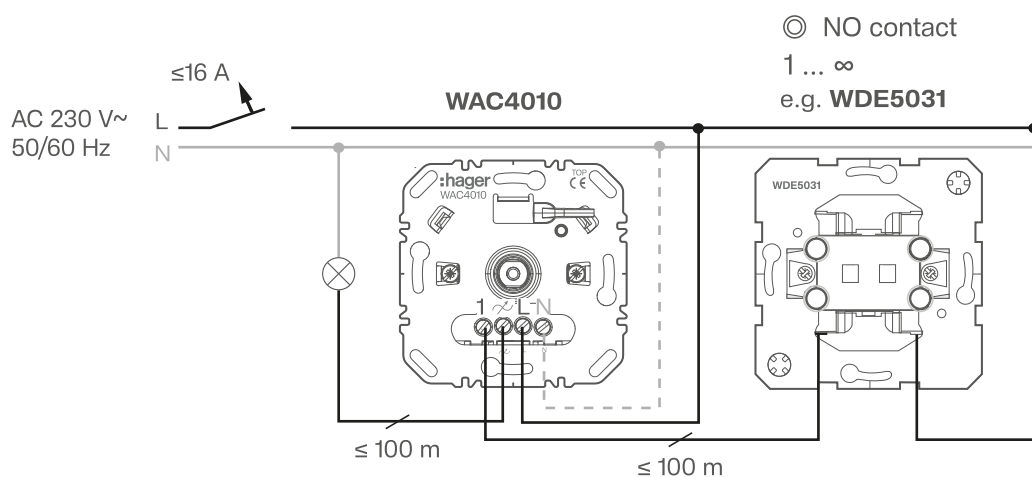


Fig. 12: Connection diagram with optional push button extension unit

WAC4010:

Ⓞ	1 x 0.5 ... 4 mm ² 2 x 0.5 ... 2.5 mm ²
Ⓞ	1 x 0.5 ... 4 mm ² 2 x 0.5 ... 2.5 mm ²
Ⓞ	1 x 0.5 ... 4 mm ² 2 x 0.5 ... 1.5 mm ²

Fig. 13: Cable cross-sections

- Connect the device according to the connection diagram (Fig. 11 or Fig. 12).

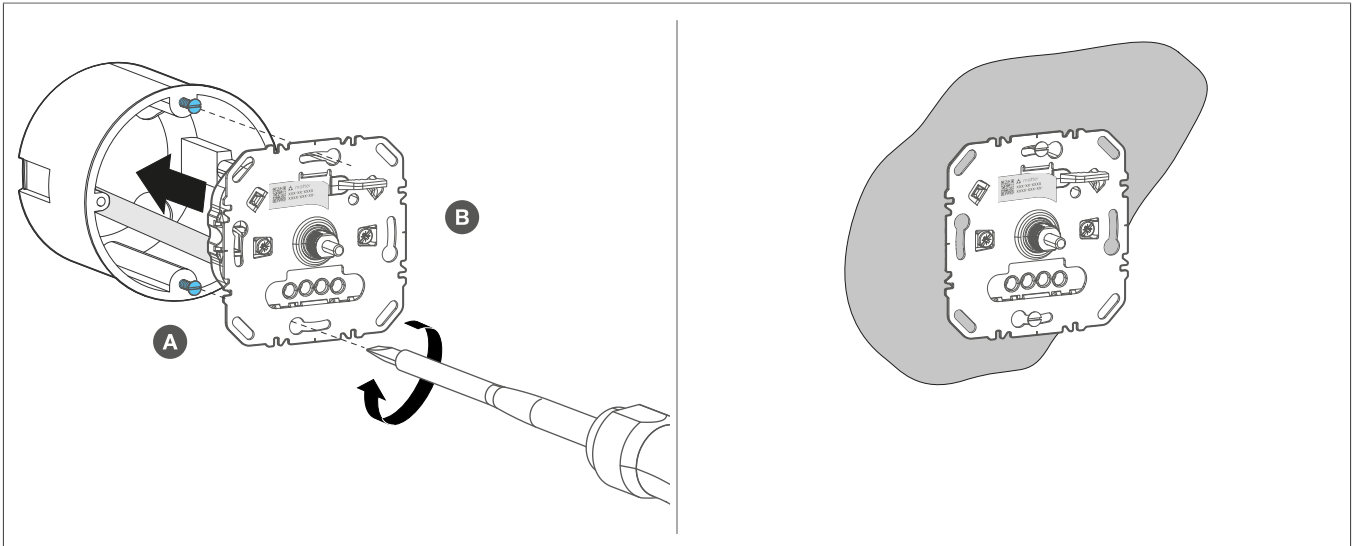


Note

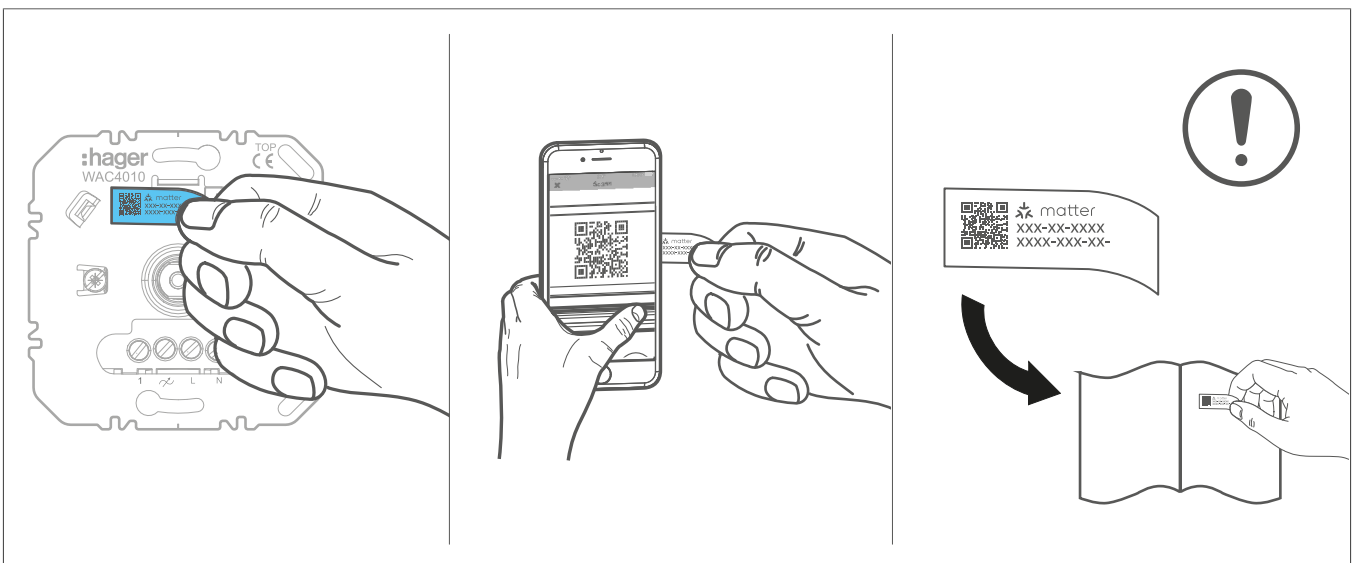
The dimmer insert has an optional N-terminal. Operation without neutral conductor possible.

Installation

- ☑ Device installation box fitted.
- ☑ Device wired.



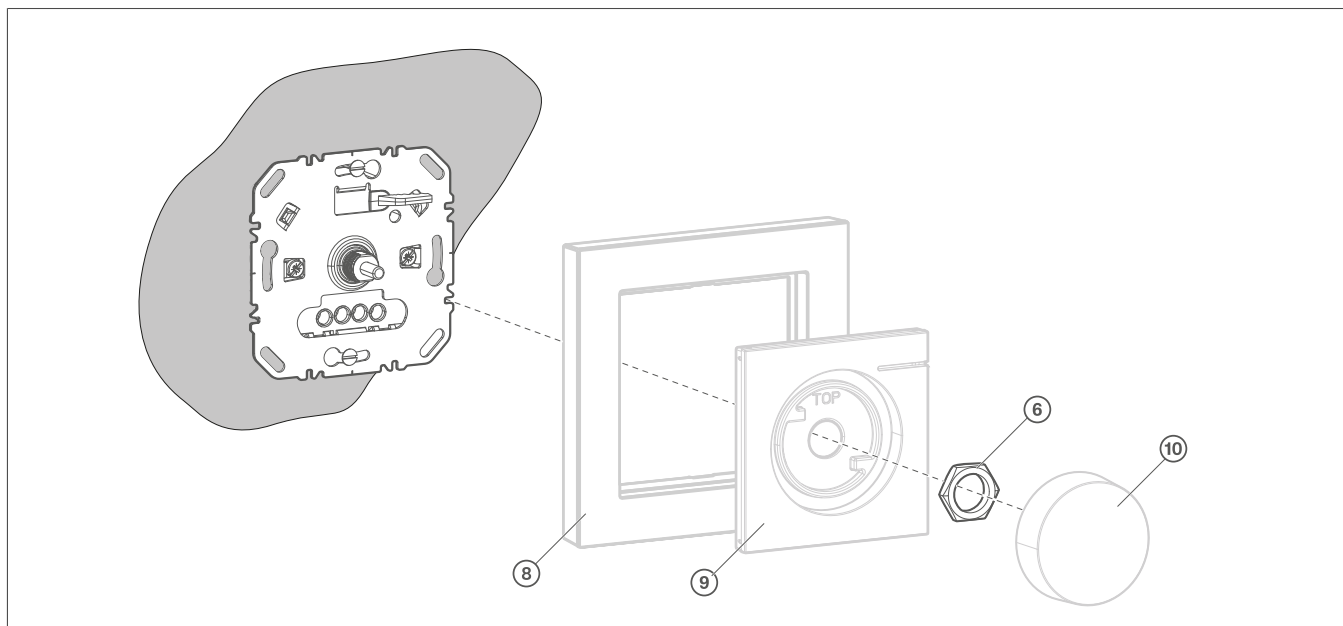
- 1 Screw the insert for the rotary dimmer (7) into the device installation box.



Note

The device ID is required for re-pairing after a Matter zreset.

- 2 Scan the QR code (device ID) on the identification label to commission the device for the first time.
Note: The device cannot be commissioned until connection mode has been activated ([Matter commissioning](#))
- 3 Remove the identification label from the device and leave it with the end customer for later use.



- ⑥ Nut
- ⑦ Insert for connected rotary dimmer
- ⑧ Frame (not included in the scope of delivery)
- ⑨ Centre piece for rotary dimmer (not included in the scope of delivery)
- ⑩ Setting knob (not included in the scope of delivery)

- ④ Place the frame (8) and the centre piece of the rotary dimmer (9) on the insert (7).
- ⑤ Attach the centre piece of the rotary dimmer (9) using the supplied nut (6).
- ⑥ Fit the setting knob (10) onto the nut (6).

7.2 Commissioning

Press and hold the cfg button to perform commissioning (Fig. 14).



Note

If no further actions are selected in a setting menu within the next 10 seconds, the device switches back to normal operation.

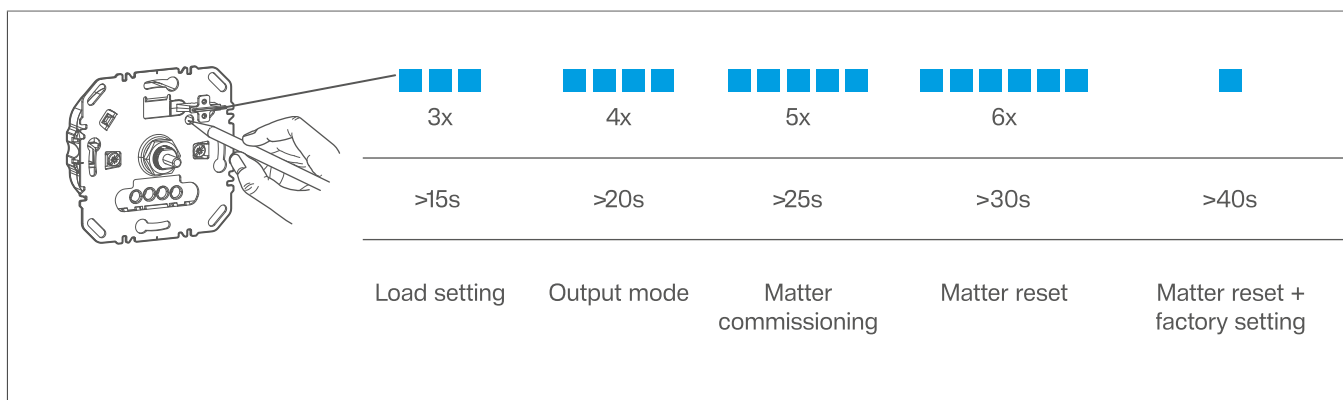


Fig. 14: Functions via the cfg button

Function	Duration of the button press	Status LED	Setting mode
Load setting	> 15 seconds	3x blue flash	- Factory load setting* - LED mode 1 - LED mode 2 - Fine setting of minimum brightness - Fine setting of maximum brightness
Set the output mode	> 20 seconds	4x blue flash	- Standard dimming mode* - Switching operation
Matter commissioning	> 25 seconds	5x blue flash	- Starting the Matter commissioning
Reset the Matter connection	> 30 seconds	6x blue flash	- Matter reset
Reset to factory setting	> 40 seconds	Constant blue	- Matter reset + reset to factory settings

Table 7: Functions and associated setting modes

* Factory setting

Load setting

If the switching/dimming performance of a universal dimmer is not satisfactory after commissioning, load setting may need to be performed.



Note

A load adjustment must be performed again after each change impacting the load.

☑ The load is switched off.

- 1 Press and hold the cfg button > 15 seconds, until the status LED flashes 3x blue (Tab. 7).
The connected load flashes once. The device is in selection mode.
- 2 Briefly press the cfg button several times to select the desired setting mode (Tab. 8).
- 3 Within 10 seconds, confirm the selection by pressing the cfg button > 2 seconds.
The confirmation is signalled by the blue LED flashing once.

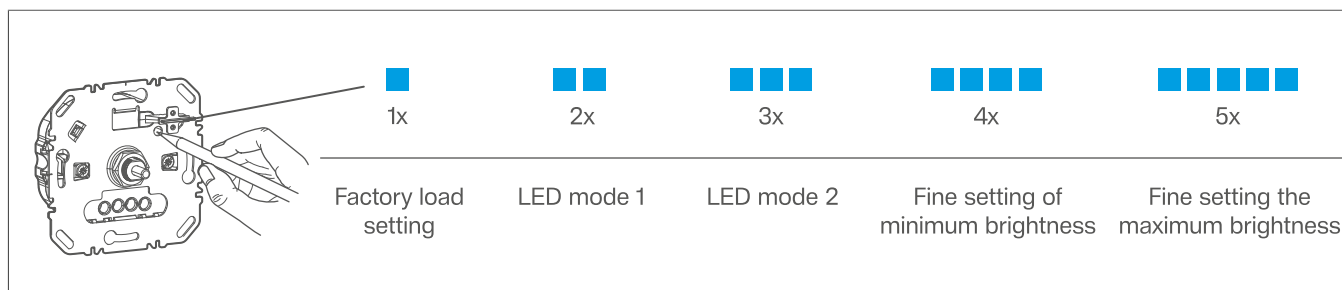


Fig. 15: Load setting

Status LED	Setting mode	Duration and confirmation of the load setting ^[1]	Information for use
1x	Factory load setting*	Settings duration: approx. 30 sec. Note: Load switching/dimming phases may occur during the automatic settings process. Finally, the device returns to normal operation.	Factory setting with automatic load recognition. If the switching behaviour is not satisfactory, the selection mode must be restarted and the appropriate option selected.
2x	LED mode 1 (phase cut-on)	Settings duration: approx. 5 sec. Finally, the device returns to normal operation.	Recommended for lower 230 V LED loads up to max. 60 W if the switching/dimming behaviour is unsatisfactory after automatic load setting.
3x	LED mode 2 (phase cut-off)	Settings duration: ≤ 50 sec. Note: Load switching/dimming phases may occur during the automatic settings process. Finally, the device returns to normal operation.	Recommended for higher 230 V LED loads from 50 W, which can be operated in the phase cut-off. Observe manufacturer's data.
4x	Fine setting of minimum brightness ^[2]	5 predefined minimum brightness levels are repeatedly cycled through for 2.5 seconds each (3 cycles). Once the connected load shows a satisfactory minimum brightness, confirm with a short press of a button. Finally, the device returns to normal operation.	To optimise the switch-on behaviour, or if the load flickers in the lower dimming range, the minimum brightness setting can be manually adjusted.
5x	Fine setting of maximum brightness ^[2]	Five predefined maximum brightness levels are repeatedly cycled through for 2.5 seconds each (3 cycles). Once the connected load shows a satisfactory maximum brightness, confirm by pressing a button > 2 seconds. After approximately five seconds, the load flashes four times to confirm and remains switched on. Finally, the device returns to normal operation.	To optimise the switch-on behaviour, or if the load flickers in the upper brightness range, the maximum brightness setting can be manually adjusted.

Table 8: Setting mode for setting the load

* Factory setting

[1] The load flashes for confirmation at 50% brightness.

[2] If the device is set to switching operation, setting mode cannot be performed.

Set the output mode

Output mode allows you to switch between stepless dimming and pure switching operation for non-dimmable lamps.

- 1 Press and hold the cfg button > 20 seconds, until the LED flashes 4x blue (Tab. 7).
The device is in selection mode and the LED repeatedly flashes 1x for the first setting mode.
- 2 Within 10 seconds, briefly press the cfg button several times to select the desired setting mode (Tab. 9).
- 3 Within 10 seconds, confirm the selection by pressing the cfg button > 2 seconds.
The confirmation is reported by the blue LED flashing once.

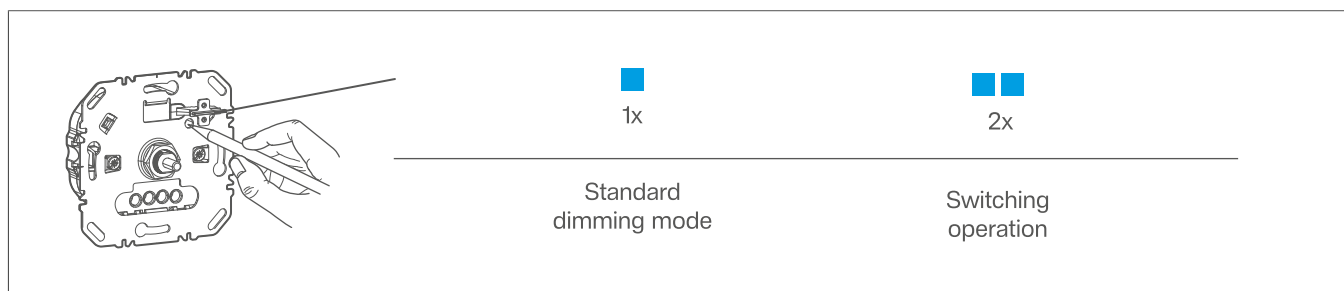


Fig. 16: Output mode

Briefly press the button	Setting mode	Information for use
1x	Standard dimming mode*	Standard operation, for dimmable loads.
2x	Switching operation	Intended for non-dimmable loads, to switch them on or off.

Table 9: Set the output mode

* Factory setting

Matter commissioning

To make the device visible and ready to be added to a smart home system, connection mode can be activated for 15 minutes.



Note

There is a QR code sticker on the device that is identical to the QR code on the device. This is used to commission the device. The QR code sticker must be removed and stored by the customer so that the device can be recommissioned without removing the cover.

If the QR code on the button cover cannot be scanned, the digital code printed on the sticker can be entered manually under "Add device" in the relevant app.

☑ The load is switched off.

- 1 Press and hold the cfg button > 25 seconds, until the LED flashes 5x blue (Tab. 7).
The LED repeatedly flashes 1x to indicate the start of connection mode for 15 minutes.
- 2 Within 10 seconds, confirm the selection of connection mode for 15 minutes by pressing the cfg button > 2 seconds.
Connection mode is started for 15 minutes and the LED flashes once every 5 seconds. The connection mode enables the device to be configured in a smart home system (► see configuration instruc-

tions).

During commissioning, the Bluetooth function is active and the LED flashes 2x within 5 seconds.

Operating status	Status LED
Connection mode: The device is in pairing mode and ready for integration	Flashes blue, 1 s ON, 4 s OFF Cycle duration: 5 s
Commissioning phase: The device is configured and integrated into the target environment	Flashes blue, 1 s ON, 1 s OFF, 1 s ON, 2 s OFF Cycle duration: 5 s
Commissioning failed.	Flashes red quickly 100 ms ON, 100 ms OFF (10x) Cycle duration: 2 s
Identification phase: The device signals its presence to enable unique identification and assignment in the smart home system.	Flashes white quickly 200 ms ON, 200 ms OFF

Table 10: Matter commissioning



Note

If the LED flashes red quickly, it indicates that the device is already paired with a smart home system. Re-commissioning requires calling up the device in the Smart Home app of the system with which it is currently paired. If access to the existing smart home system is not possible or if the device is to be integrated into another system, a Matter reset must be performed (see [Reset the Matter connection](#)).

Reset the Matter connection

The device deletes the connection data for the thread and the smart home systems.

- 1 Press and hold the cfg button > 30 seconds until the LED flashes blue 6x ([Tab. 7](#)).
- 2 Within 10 seconds, confirm the Matter reset by pressing the cfg button > 2 seconds.
- 3 Remove the device from the Smart Home System app.

The confirmation is reported by the blue LED flashing once.



Note

To reconnect the device, it must be reintegrated into the Smart Home system.

Reset to factory setting

The device removes the connection data to Thread and the smart home system. In addition, all settings made on the device are reset to the factory settings.

- 1 Press and hold the cfg button > 40 seconds until the status LED lights up constant blue ([Tab. 7](#)).
- 2 Within 10 seconds, reset to the factory setting by pressing the cfg button > 2 seconds.
- 3 Remove the device from the Smart Home System app.

The confirmation is reported by the blue LED flashing once.



Note

To reconnect the device, it must be reintegrated into the Smart Home system.

8 Appendix

8.1 Accessories

Compensation module LED

Compensation module LED for dimmer optimisation

WDN9021

Cover

Centre piece for connected rotary dimmer

WAC7061xx

8.2 Technical data

	Electrical specification
Nominal voltage	AC 230 V~ (+10%/-15%)
Mains frequency	50/60 Hz
Standby power	≤ 0.35 W
Power loss	≤ 1.1 W

Connected load at 25°C:

@ 25 °C	UNI 		
 ①	20 ... 200 W	20 ... 200 W	20 ... 150 W
 ②	20 ... 150 VA	20 ... 200 VA	20 ... 150 VA
 ③	3 ... 30 W	3 ... 200 W	3 ... 30 W
 ④	20 ... 100 W	20 ... 200 W	20 ... 100 W

- ① Incandescent bulbs, high-voltage halogen lamps
- ② Electronic Transformer with NV Halogen Lamps
- ③ HV LED Lamps
- ④ Electronic LED Ballast with LED Lamps



Performance specifications including transformer loss.

Inductive transformers with at least 85% of nominal load in universal operating mode.

Resistive-inductive mixed load: a maximum of 50% of resistive load. Otherwise incorrect calibration may be possible.

Operation without neutral conductor: Minimum load 50 W. Does not apply to loads with HV LEDs.

Connecting terminals

 (rigid)	1 x 0.5 to 4 mm ² or 2 x 0.5 to 2.5 mm ²
 (flexible)	1 x 0.5 to 4 mm ² or 2 x 0.5 to 2.5 mm ²
 (flexible, with conductor sleeve)	1 x 0.5 to 4 mm ² or 2 x 0.5 to 1.5 mm ²

Performance reduction

per 5 °C exceeding 25 °C	-10 %
if built into wood or drywall	-15 %
if built into a multiple combination	-20 %
Number of extension units	
Rotary dimmer extension	unlimited
Spring-return push-button	unlimited
Total length of cable	
Load cable	≤ 100 m
Extension unit	≤ 100 m
Wireless communication	
Frequency transmission	2400 ... 2483.5 MHz
Transmission power	Max. 100 mW
Radio protocol	Thread, Bluetooth
Receiver category	2
Transmitter duty cycle	0.1 %
Connection standard	Matter
Number of smart home systems	5
Environmental conditions	
Ambient temperature	-5 ... +45°C
Storage temperature	-20 ... +60°C
Relative humidity (without condensation)	0 ... 65 %
Degree of protection	IP20
Degree of contamination	2

8.3 Troubleshooting

Connected LED or compact fluorescent lamps switch off or flicker in the lowest dimming position.

The set minimum brightness is too low.

💡 Increase the minimum brightness.

Connected lamps do not switch on or switch on late in the lowest dimming position.

The set minimum brightness is too low.

💡 Increase the minimum brightness.

Connected LED or compact fluorescent lamps flicker or buzz, correct dimming is not possible, device buzzes.

Lamps are not dimmable.

💡 Check the manufacturer's specifications. Replace the lamps with another type.

Operating mode (dimming principle) and lamps do not optimally match.

💡 Check operation in another operating mode; reduce the connected load if necessary. Set the operating mode manually. Replace the lamps with another type.

The dimmer is connected without a neutral conductor.

💡 If possible, connect the neutral conductor, otherwise replace the lamp with another type.

Connected LED or compact fluorescent lamps are too bright in the lowest dimming position; dimming range is too small.

The set minimum brightness is too high.

💡 Reduce minimum brightness.

Operating mode (dimming principle) does not optimally match the connected HV LED lamps.

💡 Check operation in another operating mode; reduce the connected load if necessary. Set the operating mode manually. HV- LED- Replace the lamps with another type.

Dimmer briefly switches off and on again.

Short circuit protection has triggered, but in the meantime there is no longer a fault.

The dimmer has switched off and cannot be switched on again.

Overheating protection has tripped.

💡 Disconnect the dimmer from the mains by switching off the circuit breaker.

LED phase cut-off: Reduce connected load. Replace the lamps with another type.

LED phase cut-on: Reduce connected load. Check operation in the LED phase cut-off setting. Replace the lamps with another type.

Allow the dimmer to cool down for at least 15 minutes.

Switch on the circuit breaker and dimmer again.

Overvoltage protection has tripped.

💡 LED phase cut-off: Check the operation in the LED phase cut-on setting; reduce the connected load if necessary.

Replace the lamps with another type.

Load failure.

💡 Check the load, replace the lamp. For inductive transformers, check the primary fuse.

Short circuit protection has tripped.

💡 Disconnect the dimmer from the mains by switching off the circuit breaker. Repair short circuit.

Switch on the circuit breaker and dimmer again.



Short circuit protection is not based on a conventional fuse, no galvanic isolation of the load circuit.

LED lamp lights up dimly when dimmer is switched off.

LED lamp is not suitable for this dimmer.

💡 Use a different type of LED lamp or an LED lamp from a different manufacturer.

Commissioning is not possible.

The device is already paired with a Smart Home System.

💡 Check if the device is already registered.

💡 If access is not possible: Reset the Matter connection of the device to the factory settings.

Commissioning failed.

Communication problems

💡 Check the network connection and make sure that the device is reachable.

💡 Reset the Matter connection of the device to the factory settings.

8.4 EU Declaration of Conformity

Hereby Berker GmbH & Co. KG declares that the radio system type WAC4010 is in compliance with the directive 2014/53/EU. The complete text of the EU declaration of conformity is available at the following Internet address: hager.com

8.5 Disposal note

Disposal note



Correct disposal of this product (electrical waste).

(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 dealer 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.

Commercial 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.



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