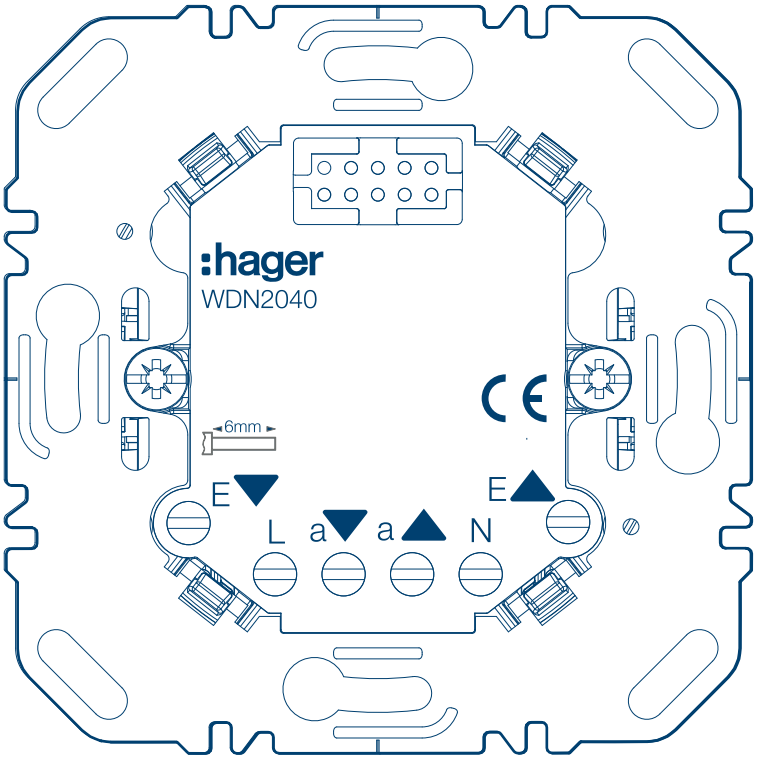
Operating and assembly instructions

Light control

Blinds insert



Blinds insert, 1-gang

WDN2040

CE

:hager

EN

1 Introduction

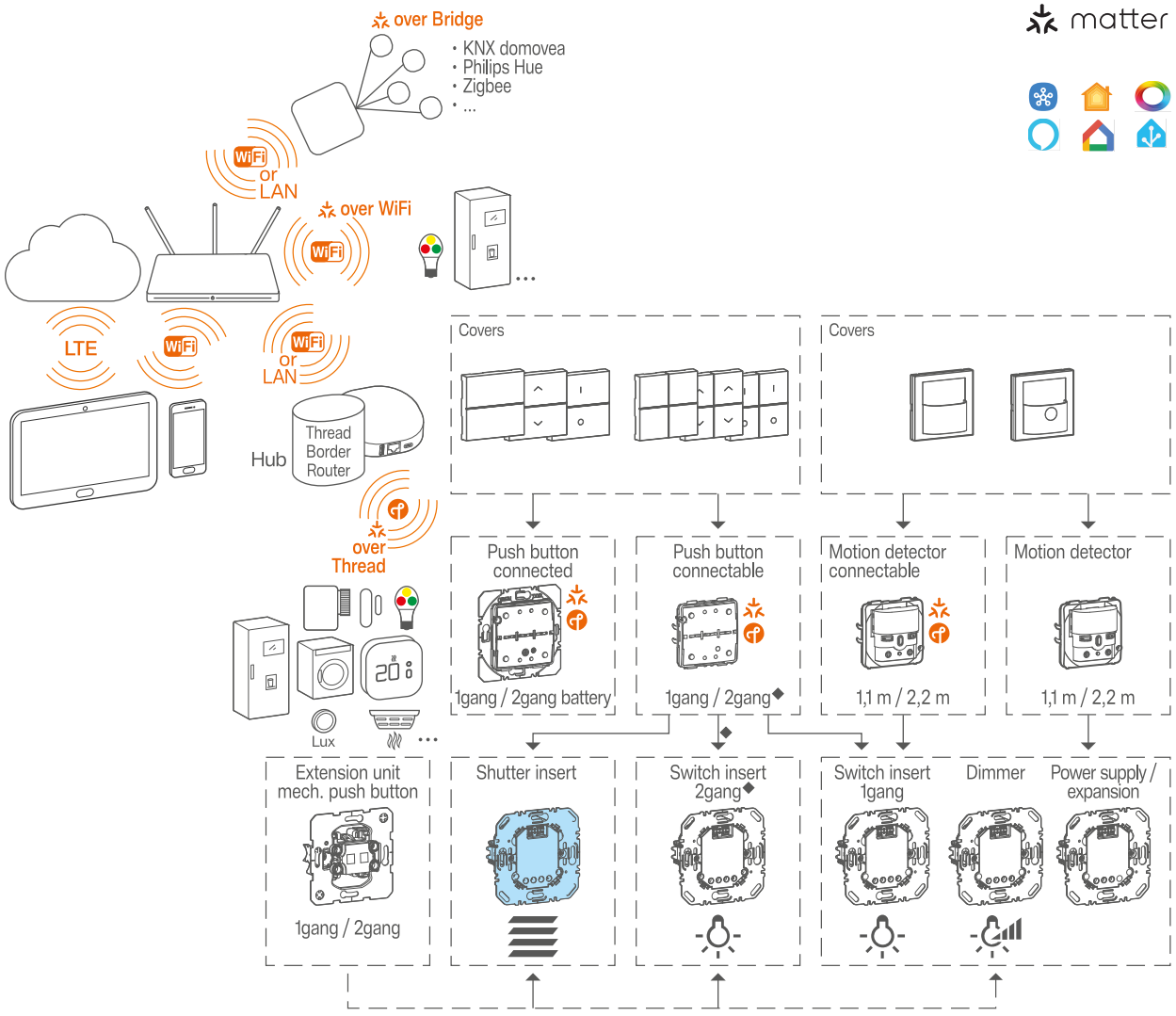
This manual describes the installation of the blinds insert. The device is part of the modular electronics platform, which can be connected via the Matter wireless standard.

In addition to the Quick Guide provided with the product, you can find the applications:

- Individual control with an extension unit for the key push-button for blinds
- Control by sensors
- Master and group control
- Operation with several residual current circuit-breakers

► Also follow the operating instructions for the application module required for operation (e.g. Push button, connectable, 1-gang). They explain the operation of the complete device and the corresponding setting options.

System overview



2 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.

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

Danger due to electric shock. The device is not suitable for safe disconnection of the mains supply.

Danger due to electric shock. Do not operate the device without application module.

If several motors should be connected in parallel to one output, it is mandatory to observe the manufacturer's data; use a cutoff relay where required. Motors could be destroyed.

Use blind drives with mechanical or electrical final position switches only. Check final position switches for correct adjustment. Comply with the motor manufacturer’s data. The device could get damaged.

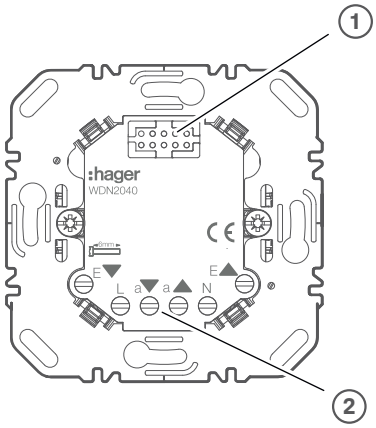
Use blind push-buttons for extension unit operation only. The use of blind push-buttons can cause malfunctions.

Risk of injury. Use the device to control blind and roller shutter motors or awnings only. Do not switch any other loads.

Observe the motor manufacturer’s data regarding change-over time and max. switch-on time.

Do not lay control lines in parallel to the motor lines (danger of coupling).

3 Design and layout of the device



1 Interface between insert/application module

2 Connecting terminals

3.1 Dimensions

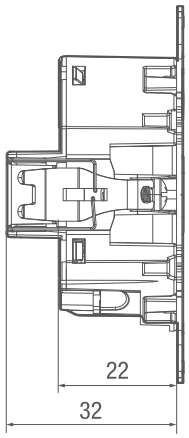


Fig. 1: Built-in depth

4 Function

4.1 Intended use

	Switching electrically operated blinds, roller shutters, awnings and similar shades.
	Suitable for connecting blind push-buttons or key push buttons for blinds as extension units
	Only suitable for use in indoor areas with no drip and no spray of water
	Installation into wall box according to DIN 49073 (recommendation: Deep box)
	Operation with suitable application module (see ‘Accessories’)

4.2 Product characteristics

- Two electronically interlocked relay contacts.
- Electronic overload and blockage detection
- Advanced smart home functions when using a Matter compatible application module

5 Operation

Operation is described in the instructions of the respective application module (see ‘Accessories’).

Operation, including operation of extension units, is only possible if an application module is attached to the insert.

6 Installation and electrical connection

6.1 Connecting the device

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!

Individual control

☑ A miniature circuit breaker in accordance with the connection diagram must be installed as device protection.

- For individual control, connect the blinds insert in accordance with the connection diagram (Fig. 2).

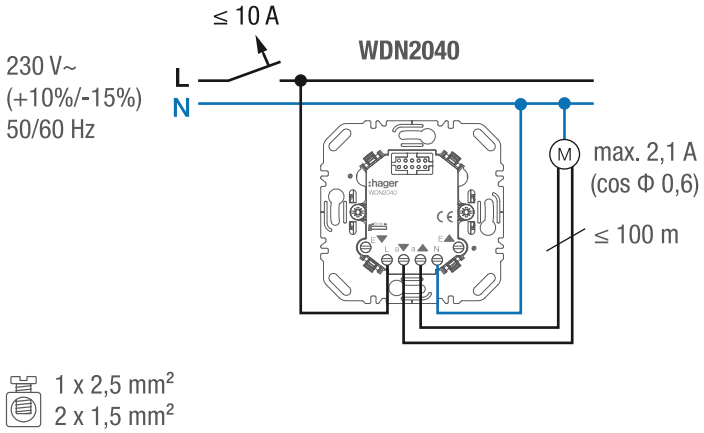


Fig. 2: Individual control

Individual control with an extension unit for the blind push-button

☑ A miniature circuit breaker in accordance with the connection diagram must be installed as device protection.

- Connect the individual control unit with the blind button extension unit in accordance with the connection diagram (Fig. 3).

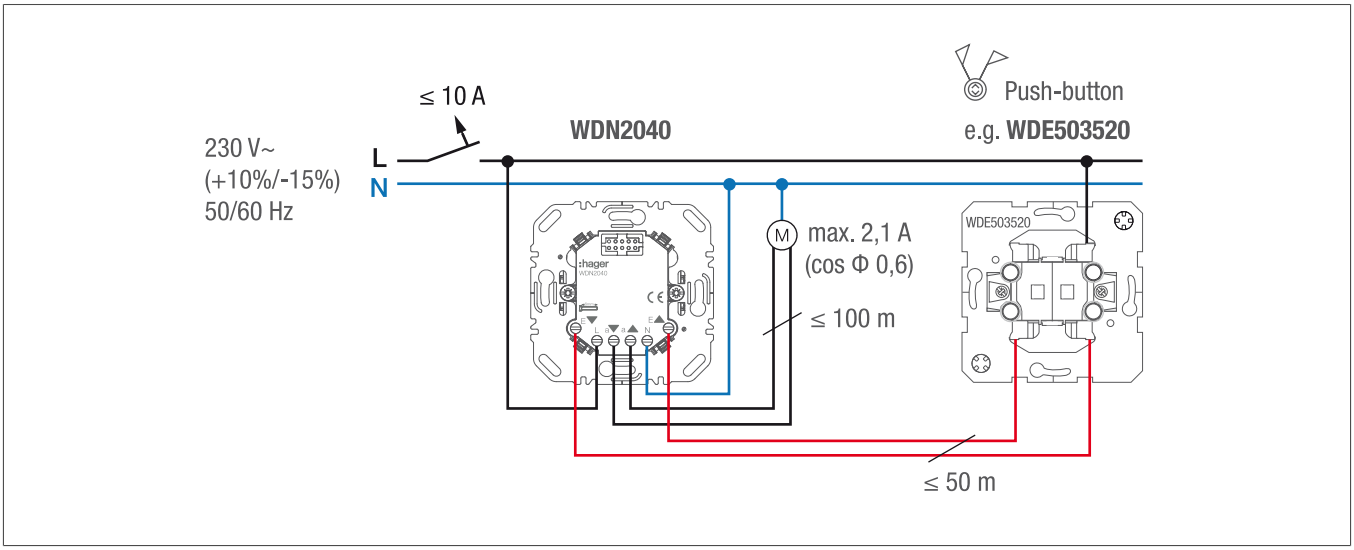


Fig. 3: Individual control with an extension unit for the blind push-button

Individual control with an extension unit for the key push-button for blinds

☑ An MCB of max. 10 A must be installed as device protection.

- Connect the individual control unit with the extension unit for the key push button for blinds according to the connection diagram (Fig. 4).

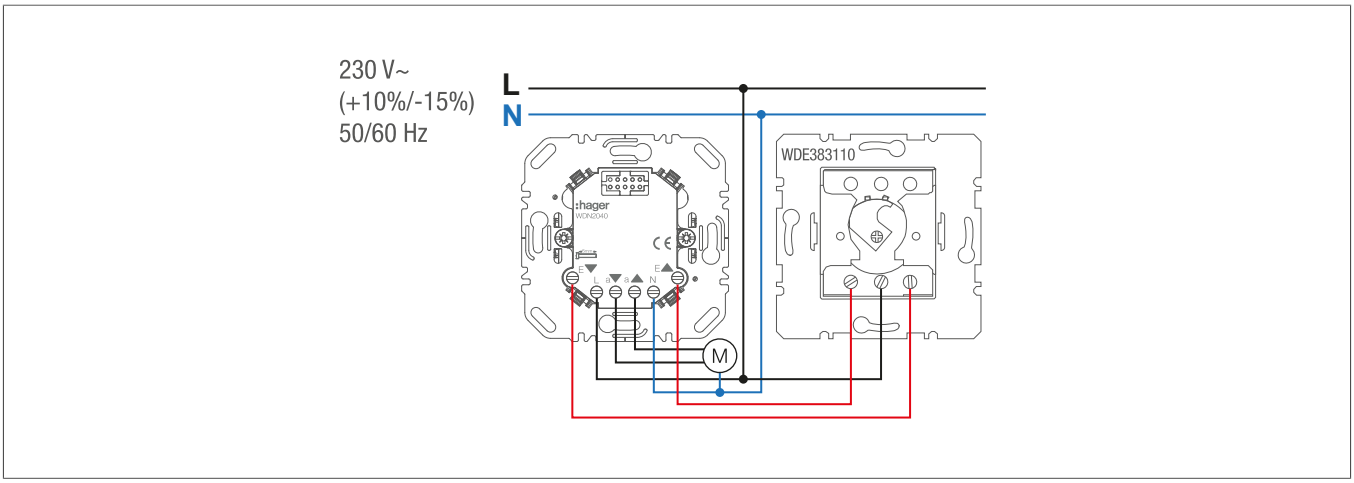


Fig. 4: Individual control with an extension unit for the key push-button for blinds

Control by sensors

Sensors such as wind/precipitation sensors are used e.g. to protect awnings from damage. If a threshold value at the sensor is exceeded, shades such as blinds are raised for safety; awnings are retracted.

☑ An MCB of max. 10 A must be installed as device protection.

- Connect the sensor according to the connection diagram (Fig. 5).

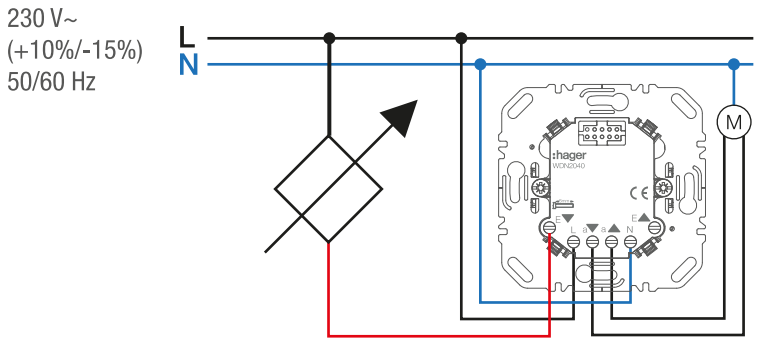


Fig. 5: Control by sensors

Master control and group control

☑ An MCB of max. 10 A must be installed as device protection.

- Connect the master control and group control in accordance with the connection diagram (Fig. 6).

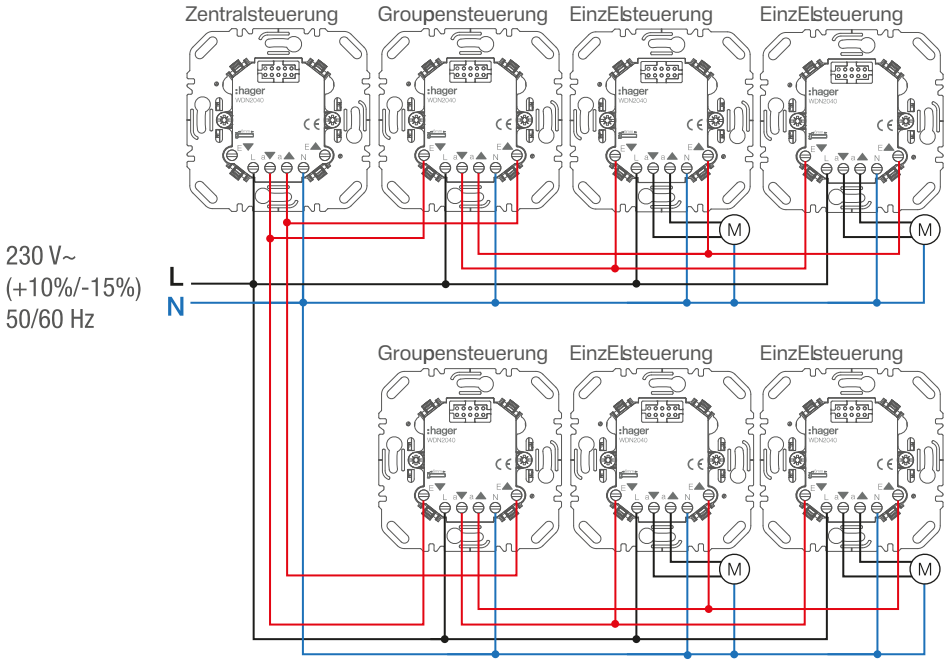


Fig. 6: Master control and group control

Master control on several residual current circuit breakers

☑ An MCB of max. 10 A must be installed as device protection.

- Connect the master control to several residual current circuit breakers in accordance with the connection diagram (Fig. 6).

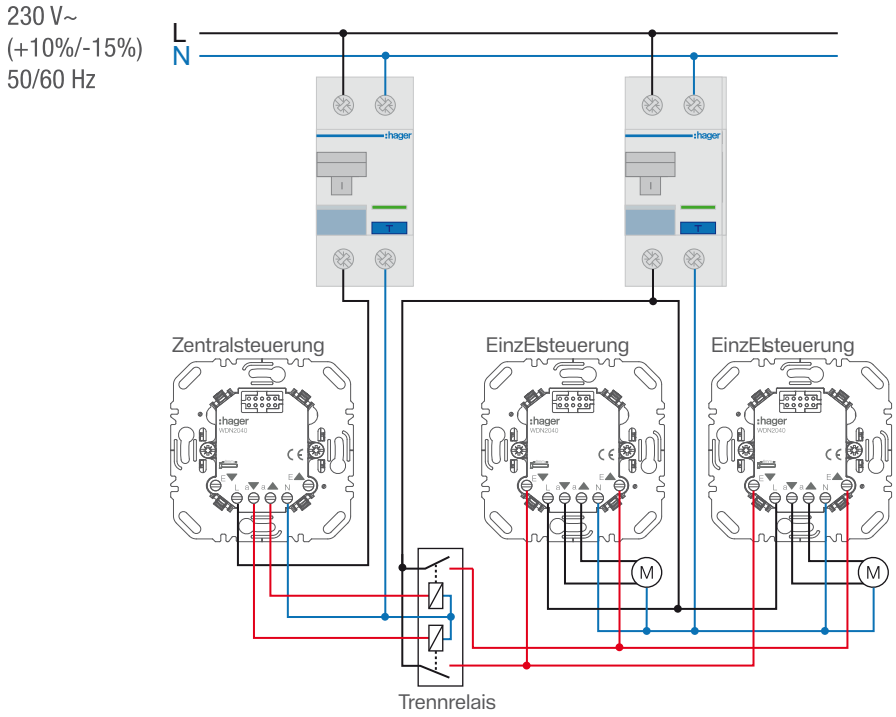


Fig. 7: Master control on several residual current circuit breakers

6.2 Installing the device

Danger

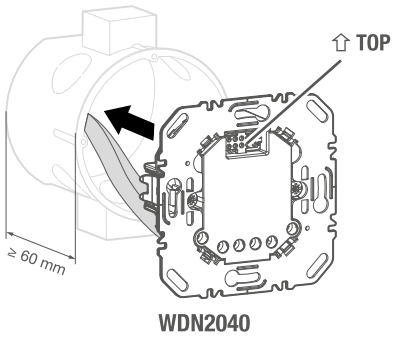
Electric shock when live parts are touched!

An electric shock can lead to death!

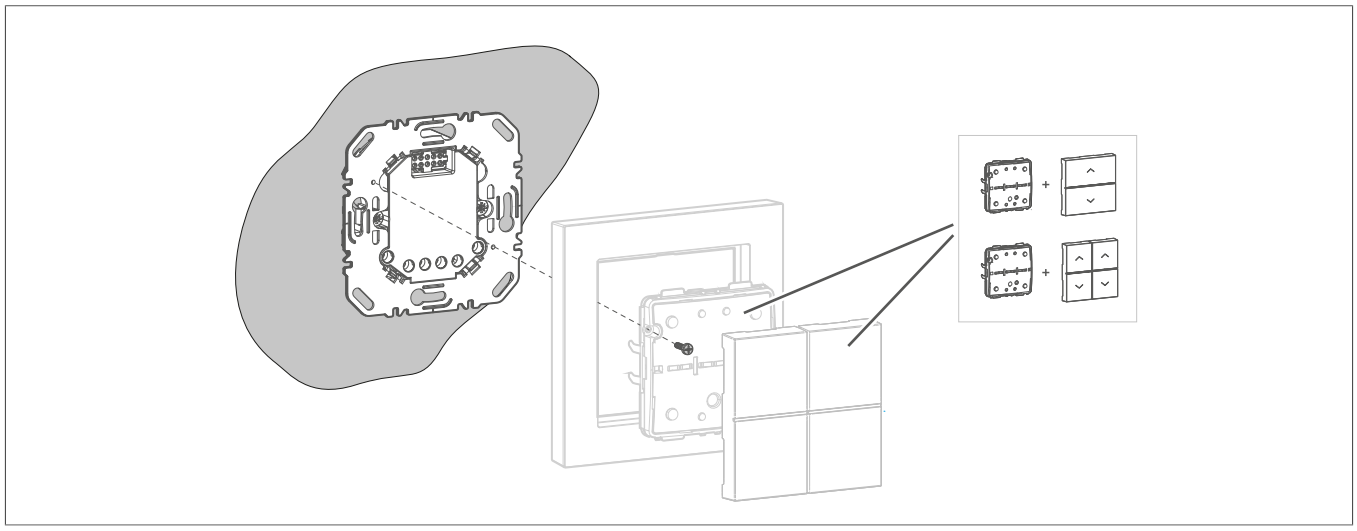
- Disconnect all connection cables before working on the device and cover any live parts in the area!

☑ The device is wired according to the connection diagram (see ‘Connecting the device’).

1. Install the device into a wall box The connection terminals must be at the bottom.



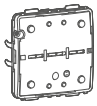
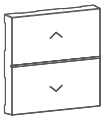
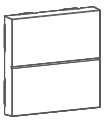
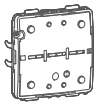
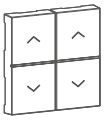
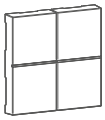
2. Mounting the frame and application module ► Follow the instructions for the application module used.
3. Secure the application module to the insert using the fixing screw.
4. Install the appropriate cover.



7 Technical data

Nominal voltage	AC 230 V~ (+10% / -15%)
Mains frequency	50/60 Hz
Miniature circuit breaker	max. 10 A
Switching current (cos ϕ 0.6)	max. 2.1 A
Change-over time for switching direction	0.6 sec.
Power consumption (standby)	< 0.1 W
Power cable length	Max. 100 m
Extension unit cable length	Max. 50 m
Number of extension unit push buttons, unilluminated	unlimited
Connecting terminals	1 x 2.5 mm² or 2 x 1.5 mm²
Built-in depth housing	22 mm
Claw guidance installation depth	32 mm
Operating temperature	-5°C … +45°C
Storage/transport temperature	-20°C … +60°C
Relative humidity	5 ... 85% (without condensation)
Degree of protection	IP20

8 Accessories

Compatible application modules			+	Correct covers			
	WAC1010	Push button (Matter compatible), 1-gang			WAN7050xx		WAN7010xx
	WAC1020	Push button (Matter compatible), 2-gang			WAN7051xx		WAN7020xx

9 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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