Zigbee Pushbutton Interface 2-gang 230 V
Art. no.: 57004000

Operating instructions

1 Safety instructions

To avoid possible damage, read and follow the following instructions:

Installation only by persons with sound knowledge and experience in the following areas:
– 5 safety regulations and standards for the installation of electrical systems
– Selection of suitable tools, measuring devices, installation materials and, if necessary, personal protective equipment
– Installation of the installation material
– Connection of devices to the building installation under consideration of local connection conditions

Improper installation endangers your own life and the lives of users of the electrical system and there is a risk of serious damage to property, e.g. through fire. You are at risk of personal liability for personal injury and damage to property.
Contact an electrical contractor!

Even a lamp that is visibly switched off is permanently supplied with mains voltage. Therefore, switch off the circuit breaker before replacing the lamp. Otherwise there is a risk of electric shock when touching live parts.

The device must not be used in connection with consumers that could lead to danger to life or limb or damage to property, e.g. heaters or electrical machines.

Read the instructions in full, observe them and keep them for future reference.
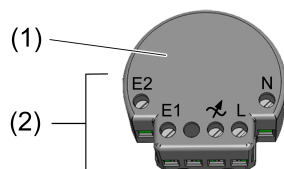
2 Device components

Figure 1: Device components

(1) Push-button interface 2-gang 230 V
(2) Terminals

3 Intended use

– Zigbee transmitter for operating Zigbee-compliant devices, e.g. lamps, lights, plug adaptors, dimmers, venetian blind actuators
– Operation with connected switches or push-buttons (normally open contact) and venetian blind push-buttons
– Use in conjunction with Zigbee gateways from different manufacturers
– Mounting in appliance box according to DIN 49073 with a suitable cover

4 Product characteristics

– Zigbee Certified Product
– 2 inputs for switches or push-buttons
– Switching, dimming, colour temperature control, venetian blind and shutter control, saving and opening scenes

–   Operation without neutral conductor possible when supplied via a lamp wire
–   Parameterising via app
–   Updating via app

5   Operation

If the lamps in a group are in different switching states, they are synchronised when they are first operated. Depending on the desired switching state, further operation is required.

Switching or dimming the light using the push-button

Operating mode "Control" is set in the app.

- ■   Switching: Press the push-button briefly. The light switches on or off.
- ■   Dimming: Long press on the push-button. The dimming process ends when the push-button is released.
- ■   Colour temperature: Press the push-button twice briefly (double-click) in the switched-on state to switch to the "Colour temperature" mode.
  Long press on the push-button to change the colour temperature. With each new long press, the direction of the color temperature change changes.
- ⓘ   After a further double click, the device switches back to normal operation. After one minute without operation, the device also returns to normal operation.

Switching the light using the switch

Operating mode "Switch" is set in the app.

- ■   Switching: Switch using the switch. Light switches off or on to the last brightness value.
- ■   Switching the light to 50% brightness: Switch twice using the switch.
- ■   Switching the light to 100% brightness: Switch three times using the switch.

Operating the curtain using the push-button

Operating mode "Blinds" is set in the app.

- ⓘ   Push-button at input 1 raises the curtain, push-button at input 2 lowers the curtain. This can be switched over in the app.
- ■   Moving the curtain: Press the push-button for longer than 1 second.
- ■   Stopping the curtain: Press the push-button briefly.
- ■   Adjusting the slats (venetian blind only): Press the push-button for less than 1 second.

Saving and opening scenes using the push-button

The Zigbee devices to be saved in a scene must first be assigned to the inputs of the push-button interface in the app.

Operating mode "Scene" is set in the app.

- ■   Saving the scene: Set the device to the required values. Long press on the push-button to save the scene. For confirmation, the devices switch briefly off and on again.
- ■   Opening the scene: Press the push-button briefly.
- ⓘ   To reset the scene, the "All Off" scene must be saved to an input.
- ⓘ   Saving the scenes using the push-button can be deactivated via the app (default: activated).

6   Fitting and electrical connection

⚠️ **DANGER!**

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before carrying out work on the device or load, disengage all the corresponding circuit breakers, secure against being switched on again and check that there is no voltage!

Operation of the push-button interface, in combination with a switch or push-button, is possible with and without neutral conductor.
If there is a neutral conductor, the push-button interface should be connected to it in any case (Figure 2).
When operating without a neutral conductor, the lamp wire must be connected to the load terminal ⚡. With some HV LED Zigbee lamps it may be necessary to connect a compensation module (4) to ensure the power supply of the push-button interface or a trouble-free operation of the lamp (Figure 3).
To connect the push-button interface to a venetian blind push-button for operating curtains, the connection to a neutral conductor is necessary (Figure 4).

ℹ️   Only HV LED Zigbee lamps may be connected to the load terminal ⚡.

■   Make the electrical connection according to the connection diagram (Figure 2), (Figure 3) or (Figure 4). In doing so, note the clampable conductor cross-section (Figure 5).

■   When connecting without neutral conductor, connect a compensation module (4) if necessary (Figure 3).
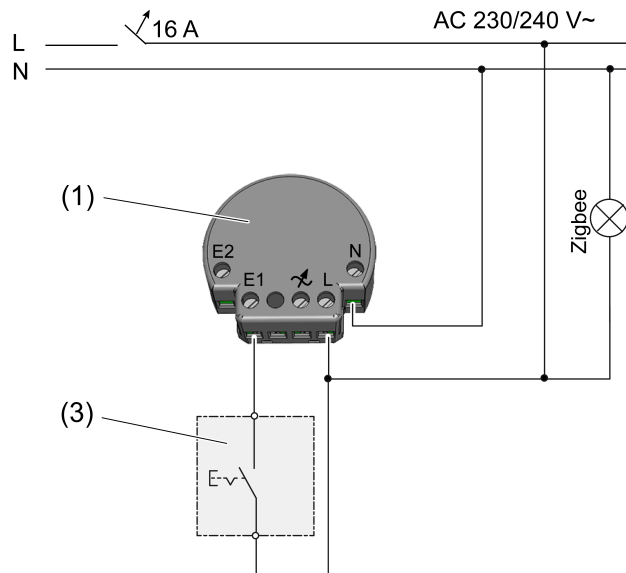
Figure 2: Switch connection diagram (with neutral conductor)

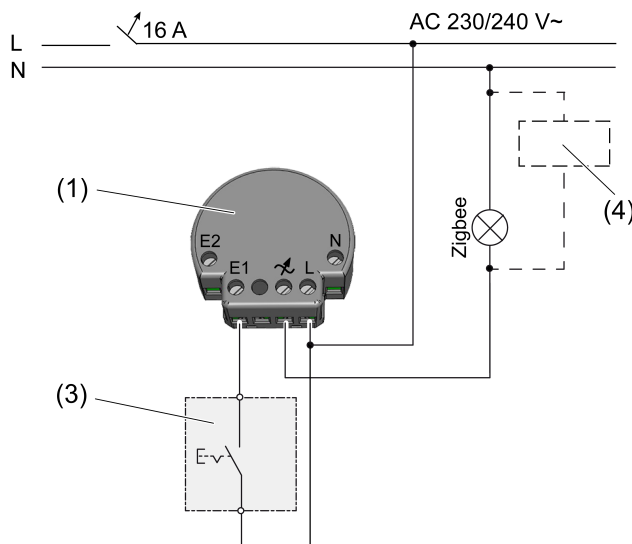(1)   Push button interface
(3)   Switch

Figure 3: Switch connection diagram (without neutral conductor)

(1)   Push button interface
(3)   Switch
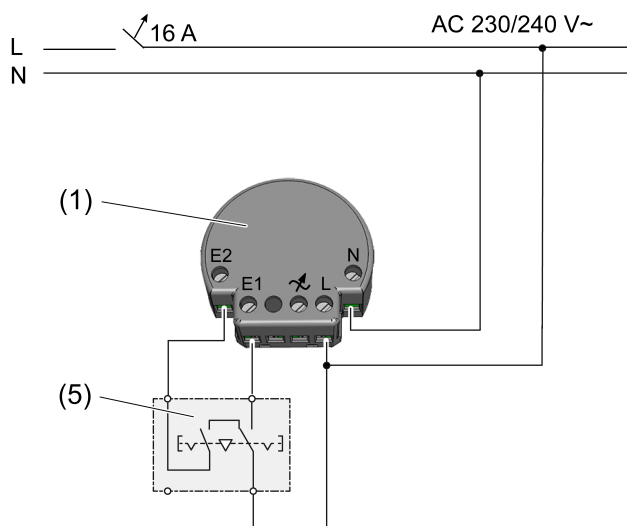(4)   Compensation module (optional)

Figure 4: Venetian blind push-button connection diagram (5)

1 x 0,5 ... 2,5 mm²
2 x 0,5 ... 2,5 mm²

1 x 0,5 ... 4 mm²
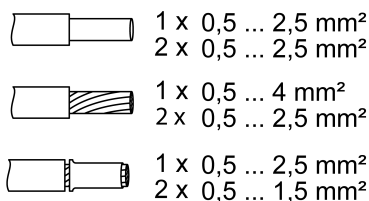2 x 0,5 ... 2,5 mm²

1 x 0,5 ... 2,5 mm²
2 x 0,5 ... 1,5 mm²

Figure 5: Clampable conductor cross-section

7   Commissioning

Commissioning is carried out via the NEXENTRO Config App, which step by step guides you through the commissioning. This requires a mobile end device (smartphone or tablet) with a Bluetooth interface and the Android or iOS operating systems.

ⓘ   The NEXENTRO Config App for the operating systems Android or iOS must be down-loaded from the App Store (iOS) or Google Play Store (Android) and then installed.

App functions

– Joining an existing network
– Setting up your own network
– Assigning a device name
– Setting device parameters: Operating mode, venetian blind movement direction, scenes
– Connect the push-button interface to Zigbee actuators and Zigbee lamps
– Displaying the switching status of the connected switches or push-buttons
– Displaying device information: Device type, software version, hardware version
– Performing a software update
– Resetting to the default setting

The following operating modes can be set via the app:

– **Control**: For operation with one or two push-buttons for switching on and off and dimming lights (default setting).
– **Switch**: For operation with one or two switches for switching loads on and off.
– **Blinds**: For operation with two push-buttons for operating a venetian blind or a shutter.
– **Scene**: For operation with two push-buttons for opening individual scenes.
– **OFF**: Input unused.

Coupling and registering new devices

ⓘ The coupling of new devices is always possible for approx. 5 minutes after mains voltage return to prevent unauthorised access. Coupling is possible at any time with devices registered in the app.

■ Couple the end device via Bluetooth with the device.
■ Add the new device to the list of registered devices.
■ Assign a device name.

Performing Zigbee configuration

The push-button interface can be added to an existing Zigbee network that already contains Zigbee devices to be controlled. If no Zigbee network exists, the push-button interface can create an own Zigbee network.

Adding a push-button interface to the Zigbee network of a gateway:

ⓘ With certain gateways, adding to a network is done via the **Touchlink** function.

■ Start the search mode for new devices in the Zigbee system. The function call depends on the gateway, e.g. "Search devices".
■ Set the operating mode for the two inputs of the push-button interface.
■ Select the **Join Network** function.
  The push-button interface is displayed in the app for some gateways.

  According to the current operating mode, the NEXENTRO Config App displays all available Zigbee devices to which the push-button interface can be connected.

■ Select the devices to be controlled with the respective input of the push-button interface.

Creating an own Zigbee network with the push-button interface:

■ Set the operating mode for the two inputs of the push-button interface.
■ Select the **Create Network** function.
  According to the current operating mode, the NEXENTRO Config App displays all available Zigbee devices to which the push-button interface can be connected.

■ Select the devices to be controlled with the respective input of the push-button interface.

Connecting the push-button interface to devices via Touchlink

To connect the push-button interface to another Zigbee device via Touchlink, e.g. a lamp, Touchlink must first be activated on the push-button interface.

Requirement: The distance between the devices to be connected is 10 to 50 cm.

■ Select the **Touchlink** function.
The push-button interface is ready to be connected to a Zigbee device.

■ Trigger Touchlink on the other Zigbee device.
The push-button interface is connected to the Zigbee device.

■ Further optional actions in the NEXENTRO Config App follow.

Restoring the device to default settings

Resetting the device to default settings is done via the app. The device deletes the assignments to a network and all connections to Zigbee devices. The operating mode is set to "Control".

☐ After resetting the device to the default setting, the device has to be removed from the NEXENTRO Config App. On iOS equipment, the device also has to be removed from the list of paired Bluetooth devices (Settings/Bluetooth). Otherwise, re-pairing will not be possible.

Deleting assignment to the Zigbee network and Bluetooth coupling

■ Switch off the supply to the device three times in quick succession and switch it on again. The pause between switching operations must be less than two seconds.
The network assignment and the Bluetooth coupling to mobile end devices are deleted.

8 Technical data

Rated voltage	AC 230 / 240 V ~
Mains frequency	50 / 60 Hz
Connected load at 35 °C	
HV LED Zigbee lamps	max. 100 W

☐ When operating with a neutral conductor, the connection power at the load terminal increases to a maximum of 150 W.

Power reduction	
per 5 °C in excess of 35 °C	-5%
when installed in wooden or dry construction walls	-15%
when installed in multiple combinations	-20%
Standby power	max. 0.2 W
Power loss	max. 1.2 W
Ambient temperature	-5 ... +45 °C
Storage/transport temperature	-25 ... +70 °C
Dimensions (LxWxH)	approx. 48 x 45 x 20 mm
Total line length	
pwr cable	max. 100 m
Input cable	max. 3 m
Zigbee	
Communication protocol	Zigbee 3.0 (router)
Radio frequency	2.400 ... 2.483 GHz
Transmission capacity	1 mW
Bluetooth	

Radio frequency	2.402 ... 2.480 GHz
Transmission capacity	max. 2.5 mW, Class 2
Transmitting range	typ. 10 m

9 Declaration of conformity

Insta GmbH hereby declares that the radio system type art. no. 57004000 meets the directive 2014/53/EU. You can find the full article number on the device. The complete text of the EU Declaration of Conformity is available under the Internet address: www.insta.de/instastorefront/services/downloads

10 Warranty

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

We provide a warranty as provided for by law.

Please send the unit postage-free with a description of the defect to our central customer service office:

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Service Center
Hohe Steinert 10
58509 Lüdenscheid
Germany

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