Radio switching actuator Mini
Order No. : 0413 00
Radio m. contact actuator Mini
Order No. : 0565 00

Operating instructions

1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock. Device is not suitable for disconnection from supply voltage.

Danger of electric shock. Always disconnect before carrying out work on the devise or load. In so doing, take all the circuit breakers into account, which support dangerous voltages to the device and or load.

Danger of electric shock on the SELV/PELV installation. Not suitable for switching SELV/PELV voltages.

Fire hazard. Not suitable for switching of a second outer conductor.

The radio communication takes place via a non-exclusively available transmission path, and is therefore not suitable for safety-related applications, such as emergency stop and emergency call.

Danger of electric shock. The antenna has basic insulation. Do not lead it through the appliance box.

Do not shorten, extend or strip the antenna. Device can be damaged.

These instructions are an integral part of the product, and must remain with the end customer.

2 Device components

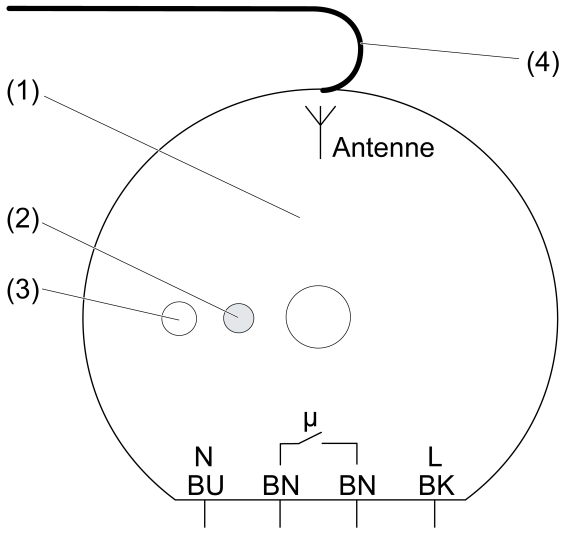

Figure 1

(1) Switch/push-button actuator
(2) LED
(3) Programming button
(4) Antenna

3 Function

System information

By statute, the transmitting power, the reception characteristics and the antenna cannot be changed.

The range of a radio system from the transmitter to the receiver depends on various circumstances.

The range of the system can be optimised by selecting the optimal installation location, taking into account the structural circumstances.

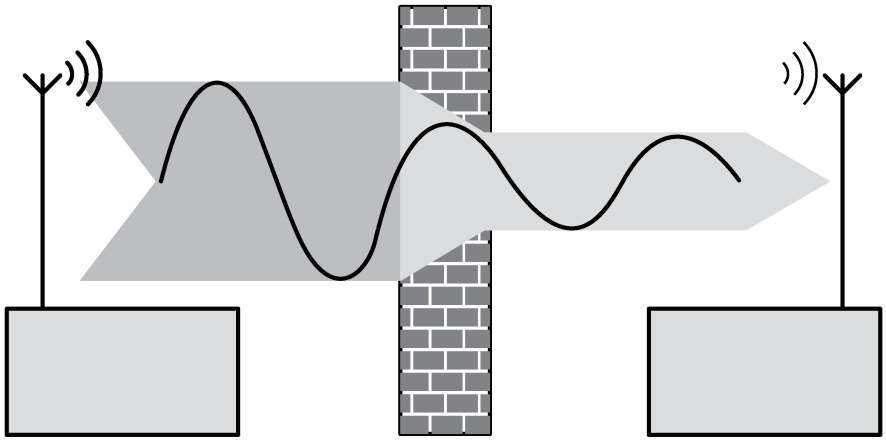

Figure 2: Reduced range due to structural obstacles

Example of penetration of various materials:

Material	Penetration
Wood, Plaster, Plasterboard	approx. 90%
Brick, Chipboard	approx. 70%
Reinforced concrete	approx. 30%
Metal, Metal grid	approx. 10%
Rain, Snow	approx. 1-40%

Intended use

- Radio-controlled switching of incandescent lamps, fluorescent lamps, HV halogen lamps and Tronic or inductive transformers with halogen lamps
- Operation with suitable radio transmitters
- Suitable for mixed operation up to the specified output (Technical data)
- Installation in appliance box to DIN 49073

i No mixed-load operation of Tronic and inductive transformers.

i It is not possible to teach a combination of presence detector and motion detector.

Product characteristics of the switch actuator

- Light scene operation possible
- 2-point light control in combination with a radio presence detector possible
- Run-on time of approx. 1 minute in connection with radio motion detectors.

Product characteristics of the push-button actuator

- The push-button actuator closes its relay contact as long as it receives taught radio telegrams for switch-on, e.g. from a channel button of a hand-held transmitter or wall transmitter. If the corresponding channel button is released within the maximum transmission time, the push-button actuator opens the relay contact again.

- If the channel button is pressed for longer than the maximum transmission length of the transmitter, or if the transmission is faulty, then the relay contact is opened after approx. 16 seconds.
- If the taught channel button is pressed briefly, or a radio motion detector telegram is received, the relay contact closes for approx. 0.3 seconds.

i The following functions are not supported by a push-button actuator: All On, All Off, light scenes and light control.

4 Operation

A radio transmitter has to be taught in order to be able to operate the device.

i Observe the instructions for the radio transmitter.

5 Information for electrically skilled persons

5.1 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. Cover up live parts in the working environment.

Connecting and mounting the device

Maintain a distance of at least 0.5 m from metal surfaces and electrical devices, e.g. microwave ovens, hi-fi and TV systems, electronic ballasts or transformers.

Maintain a distance of at least 1 m between transmitter and receiver in order to prevent overmodulation of the receiver.

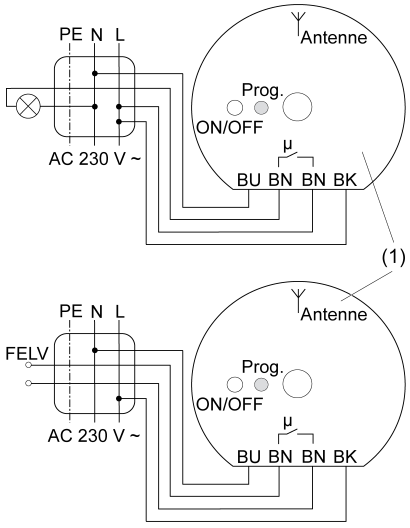

Figure 3

Blue conductor - BU, N, neutral conductor

Black conductor - BK, L, AC 230 V ~

Brown conductors - BN, μ, NO contact

- Connect the Switch/push-button actuator (1) to lamp terminals according to connection diagram (Figure 3) (see Using the lamp terminals).

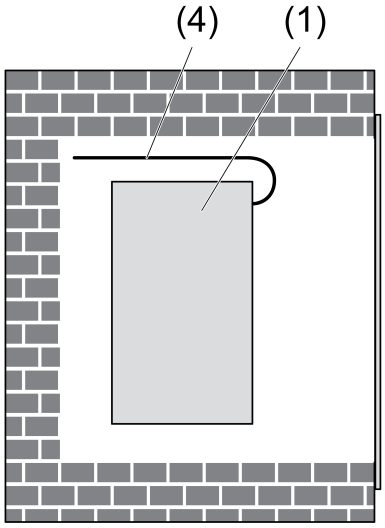

Figure 4

- Insert the Switch/push-button actuator in the appliance box in such a way that the programming button and the LED are visible.

i Lay the antenna stretched out freely if possible(Figure 4).

i For mounting outside of the appliance box, e.g. baldachin luminaires, ensure sufficient protection against electric shock.

- Carry out commissioning (see Commissioning chapter).
- Screw on blank cover.
- Switch on mains voltage.

i The load can be switched on or off by pressing the programming button briefly (for about 1 second).

Using the lamp terminals

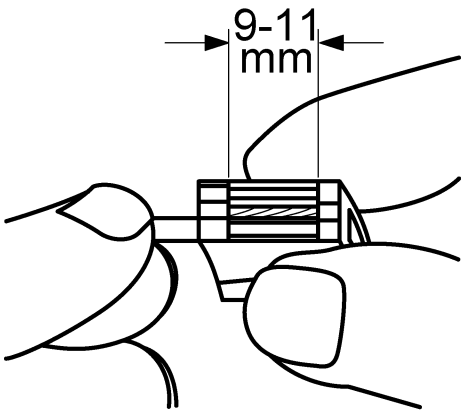

Figure 5: Stripping length

- Strip 9 - 11 mm of the cable (Figure 5).

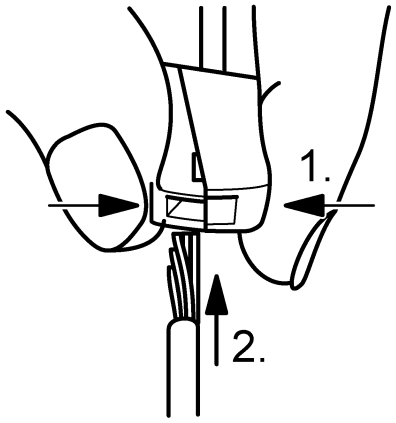

Figure 6: Connection of the fine-wire cable

- Push the terminal together on the side with the square opening and connect a fine-wire cable (Figure 6).

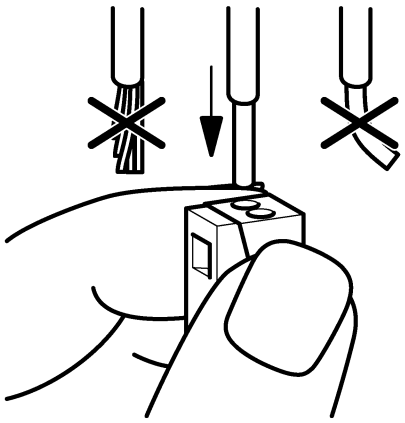

Figure 7: Connection of the single-stranded cable

- Push the single-stranded cable into the round opening on the installation side up to the stop (Figure 7).

5.2 Commissioning

DANGER!
Electrical shock when live parts are touched.
Electrical shocks can be fatal.
Before working on the device, cover up live parts in the working environment.

i Observe the instructions for the radio transmitter.

Teaching a radio transmitter

i If all memory slots are occupied, a radio transmitter which has already been taught must first be deleted. To do this, delete all taught channels and light scenes of the radio transmitter individually.

The distance between the receiver and the radio transmitter is from 0.5 m to 5 m.

Load is switched off.

- Press the programming button for approx. 4 seconds.
  The LED blinks. Load is switched on for 4 seconds, after which the switch/push-button is in programming mode for approx. 1 minute.

- Trigger teach telegram on radio transmitter (see instructions for radio transmitter).
  LED lights up. The radio transmitter has been taught.
- Press the programming button briefly.
  The load switches on. The device is in operating mode.

i The programming mode is exited automatically after about 1 minute.

i Only for switch actuator: Teach light scene push-buttons separately.

i Only switch actuator: When a radio transmitter is taught, All On and All Off buttons that are present are automatically also taught.

Deleting radio transmitters individually

- Teach the radio transmitter to be deleted again (see Teaching a radio transmitter).
  LED blinks quickly. The radio transmitter has been deleted.

i If several channels or light scenes of a radio transmitter have been taught, they all must be deleted individually.

6 Appendix

6.1 Technical data

Rated voltage	AC 230 V ~
Mains frequency	50 / 60 Hz
Ambient temperature	-20 ... +55 °C
Relative humidity	approx. 0 ... 65 % (No moisture condensation)
Circuit breaker	max. 10 A

Connected load

i Power specifications including transformer power dissipation.

i Operate inductive transformers with at least 85% nominal load.

Incandescent lamps	1000 W
HV halogen lamps	1000 W
Electronic transformers	750 W
Inductive transformers	750 VA
Fluorescent lamps, uncompensated	500 VA
Fluorescent lamps, parallel compensated	400 VA (47 µF)
Fluorescent lamps, duo circuit	1000 VA

Switching current for AC 230 V ~

Ohmic	8 A
Contact type	µ contact, potential-free NO contact

Connection

single stranded	1.0 ... 2.5 mm²
Dimensions Ø×H	52×23 mm
Ø Centre hole	7.5 mm
Radio frequency	433.05 MHz ... 434.79 MHz
Receiver category	2
Teachable radio transmitter	max. 14

6.2 Troubleshooting

Device does not respond, or only sometimes.

Cause 1: battery in the radio transmitter is empty.
Change the battery in the radio transmitter.

Cause 2: Radio range exceeded. Structural obstacles reduce the range.
Check the installation situation.
Check routing of antenna. Laying the antenna stretched out increases the range.
Using a radio repeater.

6.3 Conformity

Gira Giersiepen GmbH & Co. KG hereby declares that the radio system type
Order No. 0413 00 / 0565 00
corresponds to 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.gira.de/konformitaet

6.4 Warranty

The warranty follows about the specialty store in between the legal framework as provided for by law

Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/electrical specialist trade). They will forward the devices to the Gira Service Center.

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