

Radio Switching Actuator 'Mini'

Order no.: 0413 00

Radio momentary-contact Actuator 'Mini'

Order no.: 0565 00

Function Radio-control switching actuator

The radio-control switching actuator permits switching of electrical loads (AC 230 V ~/ 8 A) by radio remote-control.

After receiving a telegram from a programmed radio detector, the switching actuator is switched on for about 1 minute.

The switching actuator can be programmed to store up to 14 radio channels.

The device is equipped on the front with a programming key ① and a programming LED ②.

Lightsapes

The switching actuator can be included in up to five lightsapes which are activated with the corresponding radio-control transmitters (e.g. hand-held transmitter 'Komfort') and stored. The desired lightscape key must be programmed beforehand into the switching actuator.

All-ON / All-OFF

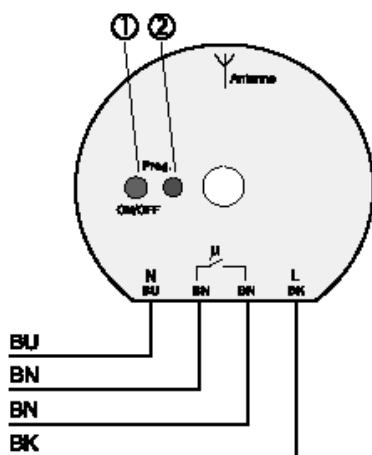
The programming of a radio channel (e.g. hand-held transmitter 'Komfort') always includes the simultaneous and automatic storage of the functions of the All-ON or All-OFF key. The All-ON or All-OFF key of a radio-control transmitter switches the load connected to the switching actuator on or off.

Light control

In combination with a programmed radio-control presence detector, the switching actuator can be used for two-state lighting control functions (load either on or off).

For more information, refer to the operating instructions of the radio presence detector.

A1)

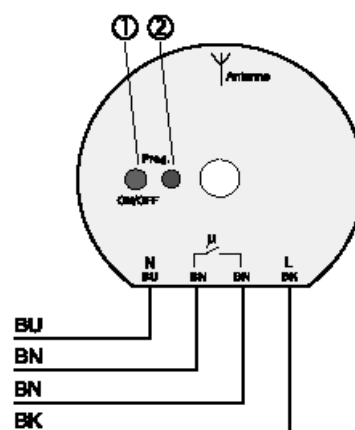
**Function Radio-control momentary-contact actuator**

The radio-control actuator closes its relay contact as long as it receives programmed radio-control switching telegrams (e.g. from a channel key Λ of a hand-held transmitter). When the corresponding channel key is released within the maximum transmitting time, the radio-control momentary-contact actuator re-opens the relay contact.

When the channel key is depressed longer than the maximum transmitting time of the transmitter or when the transmission is disturbed, the relay contact remains closed for approximately 16 s.

After a brief depression of the programmed channel key, the relay contact closes for about 0.3 s.

A2)



The radio-control momentary-contact actuator can be programmed to store up to 14 radio channels. The actuator is equipped with a programming key ① and a programming LED ②.

**Note:**

The radio-control momentary-contact actuator cannot be used with a universal transmitter (order. no. 0521 00).

The radio-control momentary-contact actuator does **not** support the following functions: All-ON, All-OFF, lightscapes, light control and radio-control detector telegrams.

**Warning**

Caution: The installation and assembly of electrical equipment may only be performed by a skilled electrician.

Since the device has only basic insulation, the applicable standards stipulate that also such activities as programming and clearing or testing of the device may be performed by qualified electricians only. This applies only insofar as parts of the electrical system have to be opened for such activities.

Important: Especially in those cases where socket outlets are to be switched with a radio-control actuator, the socket circuit itself must be protected with a 10 A circuit-breaker and the socket accordingly marked.

Installation

Install the radio-control actuator (fig. B ①) in a flush-mounting box behind a blind cover (fig. B ③).

When used outside the flush-mounting box make sure the device is sufficiently protected against accidental contact, for instance, by installing it in a surface-mounted splitting box or in the ceiling-rose of a lamp. When installing the device the inscription side must be in front.

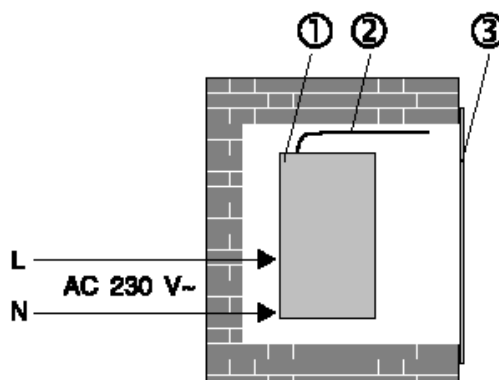
Antenna

To increase the transmitting range, the antenna wire (fig. B ②) must always be unrolled and extended freely. Since the antenna has only basic insulation, it must not be laid outside the flushmounting or surface-mounting box.

Keep a distance to large metal parts (e.g. metallic door-frames).

Do not shorten or lengthen the antenna and do not strip off the insulation.

B)

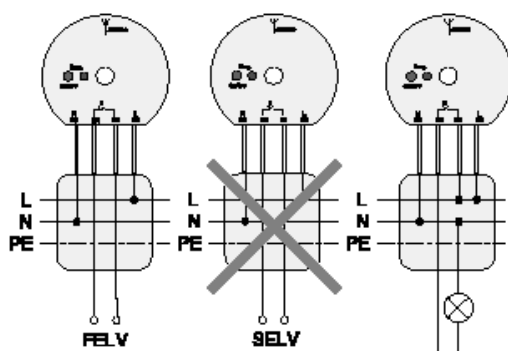


Installation

Connect the radio-control actuator as shown in fig. C.

BU, blue wire: N, neutral conductor
BK, black wire: L, AC 230 V~
BN, brown wire: μ , n.o. contact

C)



Important:

The n.o. contact is separated only internally from the phase by basic insulation. Therefore, only the following potentials may be connected to this contact:

- functional extra-low voltage (FELV)
- one phase L (AC 230 V~) to neutral conductor N

Warning

Do not connect safety extra-low voltage potentials (SELV) to the contact. The corresponding level of protection is no longer ensured. Do not connect the device to different phase conductors.



Important

- The distance from electrical appliances (e.g. microwave oven, hi-fi and TV sets) must be at least 0.5 m.
- To prevent saturation of the radio receiver (actuator), the radiocontrol actuator must be at least 1 m away from the nearest transmitter.

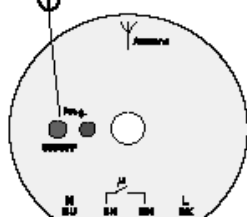
Learning a Radio Transmitter

During programming of a transmitter, the sensitivity of a radiocontrol receiver is reduced to a range of approx. 5 m. The distance between the radio-control actuator and the transmitter to be programmed into the actuator should be between 0.5 m and 5 m.

Procedure

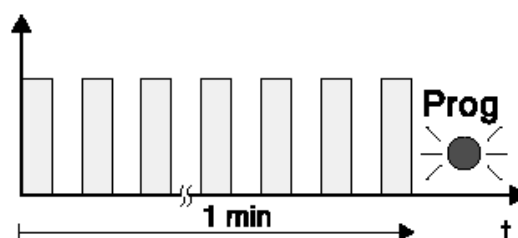
1. Switch off the load connected to the radio-control actuator by depressing the programming key (fig. D ①) briefly (< 1 s).

D)



2. Depress the programming key for about 4 seconds to change over to the programming mode. During these 4 seconds, the load will be switched on. Thereafter, the LED will flash for about 1 minute (fig. E). The radio-control actuator is now in the programming mode.

E)



3. Send a radio telegram from the selected transmitter (fig. F); see „Radio-control transmitter“ operating instructions:

Programming a channel

Depress the channel key for more than 1 second.

Programming a lightscape key

(not with momentary-contact actuator)

Depress the lightscape key for more than 3 seconds.

Programming a detector

(not with momentary-contact actuator)

Remove the battery for about 2 minutes from the detector.

Put the the battery back in place and make a movement inside the detection range of the detector within the next 15 minutes.

Programming a presence detector

(not with momentary-contact actuator)

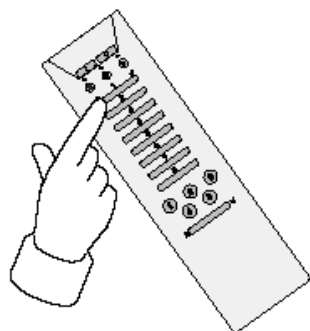
Remove the batteries for about 2 minutes from the transmitter.

After putting the batteries back in place, the device starts transmitting programming telegrams for about 30 s.

Important:

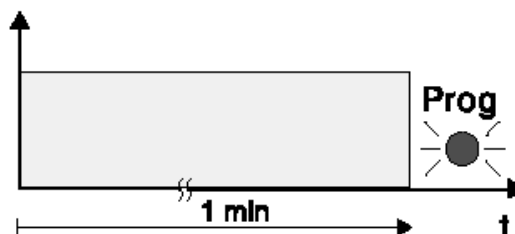
It is not possible to program a combination consisting of presence detector and detector.

F)



4. The radio-control actuator confirms storage of the data transmitted by a permanently lit LED (fig. G).

G)



5. The programming mode ends automatically after about 1 minute or can be terminated by a short depression of the programming key. The radio-control actuator is then again in the normal operating mode.



Important

- When all 14 memories are occupied, it is necessary to delete an already stored transmitter before a new one can be programmed.
- The programming of a radio channel (e.g. handheld transmitter 'Komfort') always includes the simultaneous and automatic storage of the functions of the All-ON or All-OFF key.

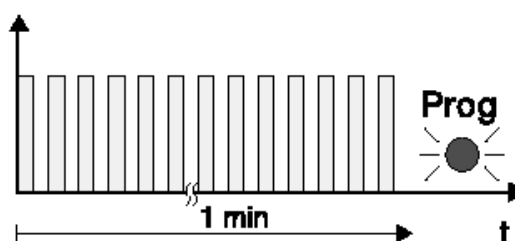
Deleting a radio-control transmitter

A radio-control-transmitter in the actuator's memory is deleted when the same transmitter is programmed again into the memory (see above).

All channels and lightscape keys must be deleted one by one.

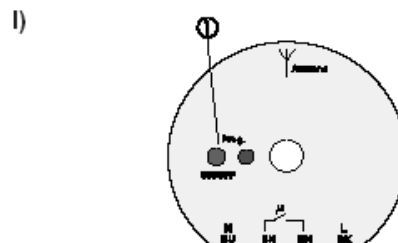
Successful deletion is signalled by the LED blinking faster (fig. H).

H)



Test Run

After the installation the radio-control actuator can be tested by brief depressions (< 1 s) of the programming key (fig. I ①).



Radio Transmission

Radio transmission takes place on a non-exclusive path. Therefore, interference cannot be excluded. This type of radio transmission is not suitable for safety applications such as emergency stops or emergency calls.

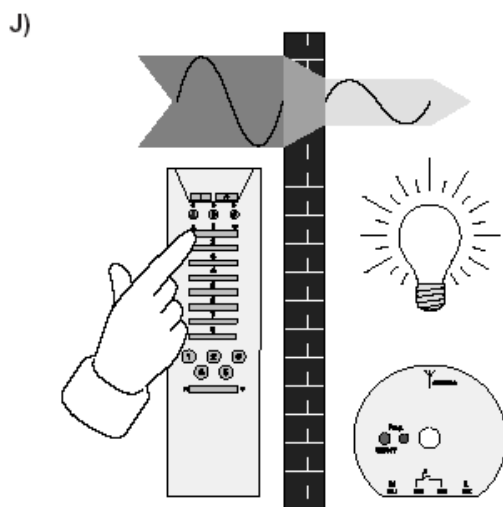
The range of a radio-control system depends on transmitter power, receiver characteristics, air humidity, fitting height and building conditions. Fig. J illustrates the penetration of building materials by radio waves:

<u>Dry material</u>	<u>Permeability</u>
Timber, gypsum, gypsum-plasterboards	approx. 90 %
Brickwork, particle boards	approx. 70 %
Reinforced concrete	approx. 30 %
Metal, metal grating, aluminium lamination	approx. 10 %
Rain, snow	approx. 0 - 40 %

Radio operation

- The inter-connection of this radio system with other communication networks must comply with national legislation.
- This radio system must not be used for communication beyond property boundaries.
- If utilized in conformity with its designated use, this unit fulfills the requirements of the R&TTE Directive (1999/5/EC). The complete declaration of conformity can be found in the internet under: www.gira.de/konformitaet

The radio-control switching actuator or the radio-control momentary-contact actuator may be operated in all countries of the EU and the EFTA.



Specifications

Nominal voltage: AC 230/240 V~, 50/60 Hz

Switching contact: relay, 8 A

Circuit-breaker: 10 A

Especially in those cases where socket outlets are to be switched with a radio-control actuator, the socket circuit itself must be protected with a 10 A circuit-breaker and the socket accordingly marked.

Switching capacity

incandescent lamps: 1000 W

HV halogen lamps: 1000 W

LV halogen lamps

conven. transformer: 750 VA,
with min. 85% rated load

Gira Tronic transf.: 750 W

fluorescent lamps

non-compensated: 500 VA

parallel comp. (47µF): 400 VA

lead-lag circuit: 1000 VA

Energy-saving lamps:

When switched on, energy-saving lamps produce high inrush currents which may weld the switching contacts together. Check therefore whether the lamps are suitable before using them.

Receive frequency: 433.42 MHz, ASK

Degree of protection: IP 20

Dimensions (Ø x H): 52 x 23 mm

Center hole Ø: 7.5 mm

Temperature range: appr. -20 °C ... +55 °C

Relative humidity: appr. 0 % to 65 %

Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

Please return the unit postage paid to our central service department giving a brief description of the fault:

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Service Center
Dahlienstrasse 12
D-42477 Radevormwald

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