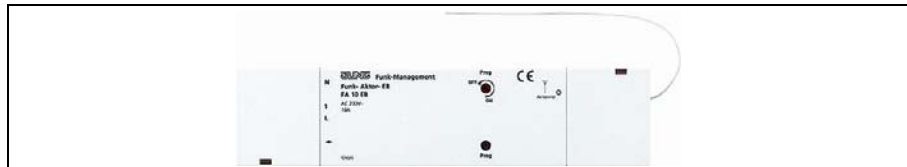


Operating Instructions Radio-control switching actuator (built-in type)



1. Function

1.1. Radio-control switching actuator

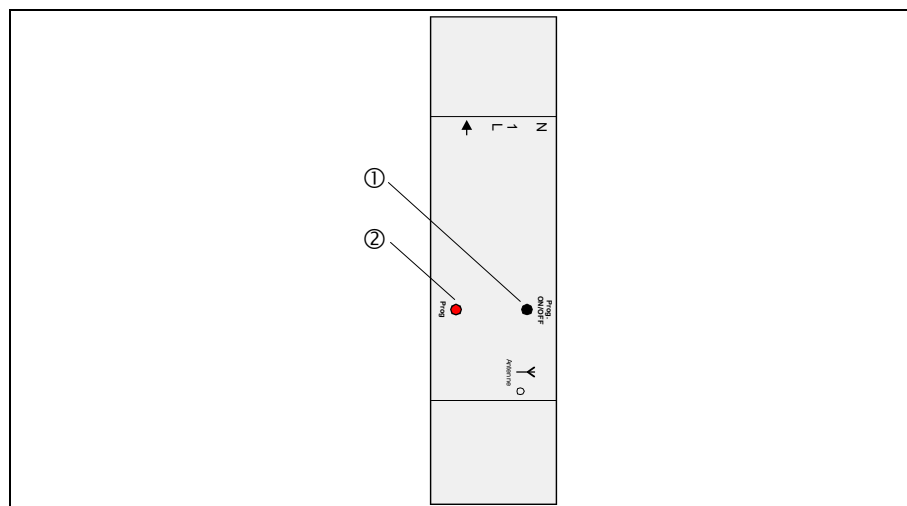
The radio-control switching actuator permits switching of electrical loads (AC 230 V ~/ 10 A) by radio remote-control.

The radio-control switching actuator can also be operated with a standard mechanical pushbutton connected to the extension input (230 V).

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 30 radio channels.

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



Lightscapes

The switching actuator can be included in up to five lightscapes 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

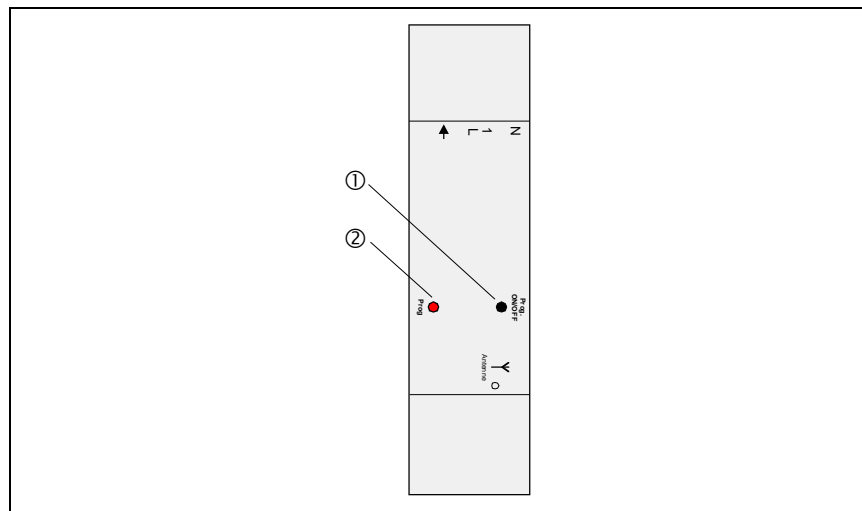
In combination with a programmed radio-control presence detector or light sensor, the switching actuator can be used for two-state lighting control functions (load either on or off). For more information, refer to the operating instructions of the radio presence detector or light sensor.

1.2. Radio-control momentary-contact actuator

The radio-control actuator closes its relay contact as long as it receives programmed radiocontrol switching telegrams (e.g. from a channel key \wedge of a handheld transmitter). When the corresponding channel key is released within the maximum transmitting time, the radio-control momentary-contact actuator reopens 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.

After a brief depression of the programmed channel key, the relay contact closes for about 0.3 s. The radio-control momentarycontact actuator can be programmed to store up to 30 radio channels. The actuator is equipped with a programming key ① and a programming LED ②.



① Notes: The radio-control momentarycontact actuator cannot be used with a universal transmitter (Art. no. 20 FP).

2. Montage



Safety instructions

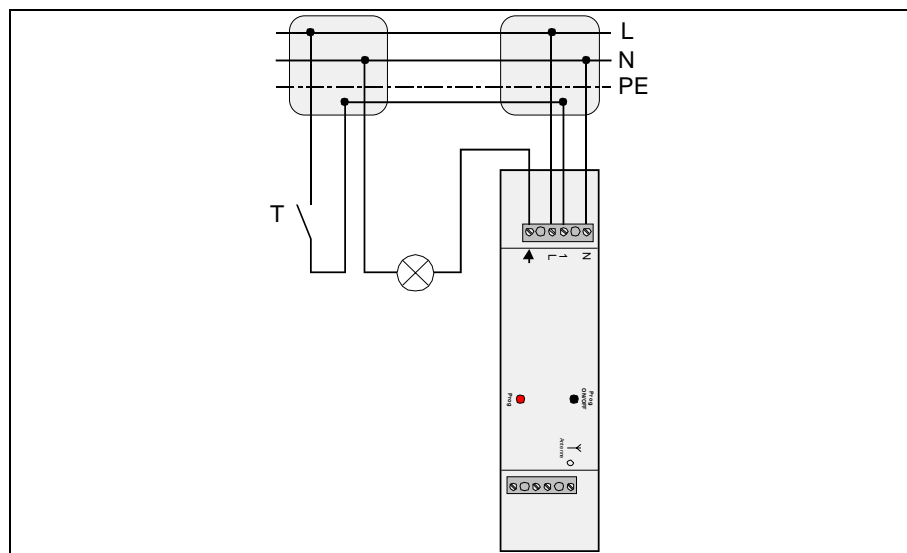
Attention: Electrical equipment must be installed and fitted by qualified electricians only.

Antenne:

To increase the transmitting range, the antenna wire must always be unrolled and extended freely. Keep a distance to large metal parts (e.g. metallic doorframes). Do not shorten or lengthen the antenna and do not strip off the insulation.

3. Installation

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



Extension input signal

Connect the extension pushbutton T as shown in fig. B.

Radio-control switching actuator:

with a momentary-contact pushbutton T (make contact) used as extension unit (230 V), the radiocontrol switching actuator can be switched alternately on and off. Depressing the pushbutton for more than 4 seconds activates the programming mode. Radio-control momentary-contact actuator: The radio-control momentary-contact actuator closes its relay contact as long as pushbutton T (make contact) is held depressed. Depressing the pushbutton for more than 4 seconds activates the programming mode.

Important:

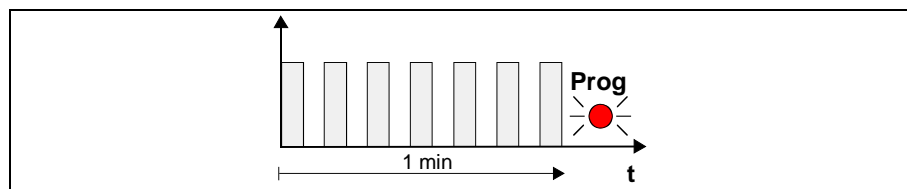
- ① The distance from electrical appliances (e.g. microwave oven, hi-fi and TV sets) must be at least 0.5 m.
- ① To prevent saturation of the radio receiver (actuator), the radio-control actuator must be at least 1 m away from the nearest transmitter.

4. Programming of a radio transmitter

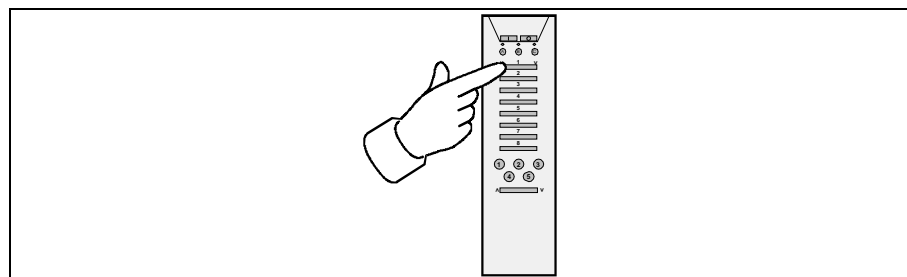
During programming of a transmitter, the sensitivity of a radiocontrol receiver is reduced to a range of approx. 5 m. The distance between the radio-control actuator and the transmitter to be programmed into the actuator should be between 0.5 m and 5 m.

Local activation

1. Switch off the load connected to the radio-control actuator by depressing the programming key briefly (< 1 s).
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. C). The radiocontrol actuator is now in the programming mode.



3. Send a radio telegram from the selected transmitter (fig. D); 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.

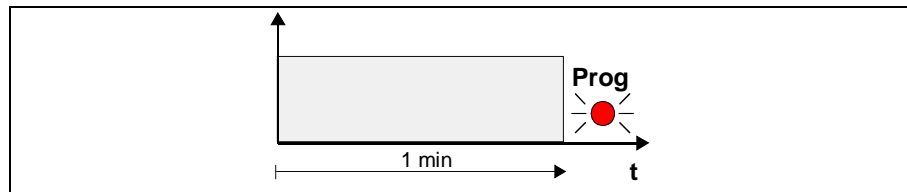
Programming a detector (not with momentary contact actuator)

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 or a light sensor (not with momentary contact actuator)

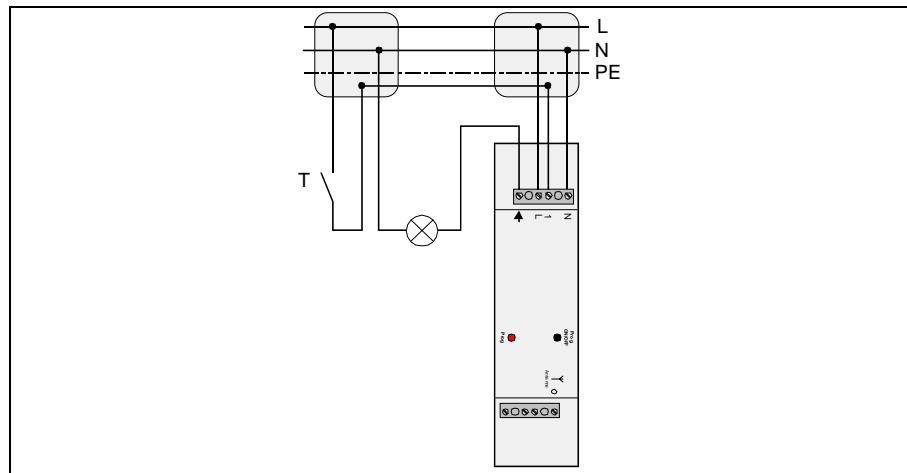
Remove the battery(ies) for about 2 minutes from the transmitter. After putting the battery back in place, the device starts transmitting programming telegrams for about 30 s.

- ① It is not possible to program a combination consisting of presence detector, light sensor and detector.
4. The radio-control actuator confirms storage of the data transmitted by a permanently lit LED (fig. E).

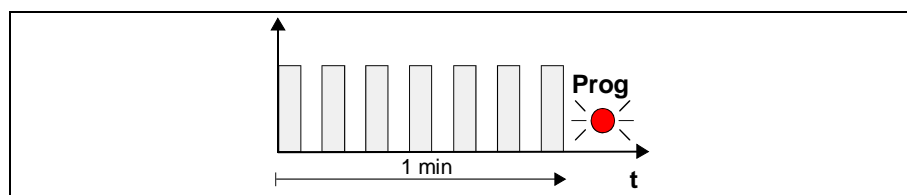


- The programming mode ends automatically after about 1 minute or can be terminated by a short depression of the programming key. The radiocontrol actuator is then again in the normal operating mode.

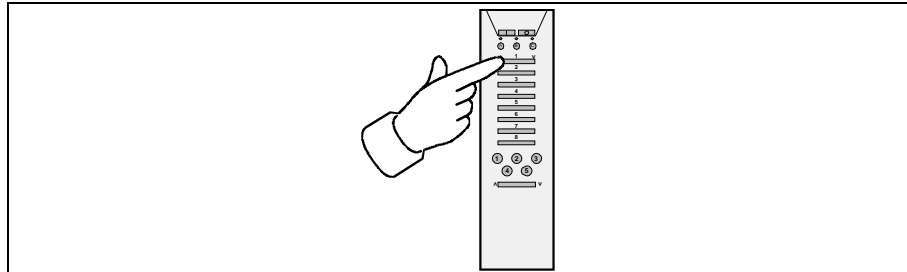
Activation from extension pushbutton T



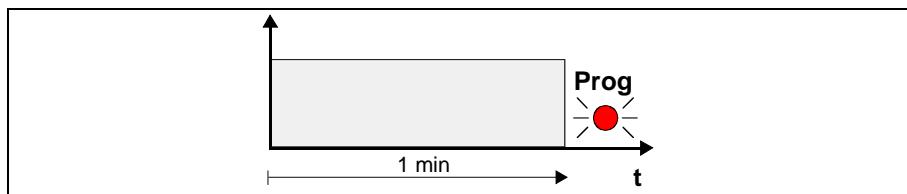
- Switch off the connected load by a short (< 1 s) depression of extension pushbutton T.
- Depress the extension pushbutton for about 4 seconds to change over to the programming mode. During these 4 seconds the load will be switched on. Thereafter, the LED will flash for about 1 minute (fig. G). The radio-control actuator is now in the programming mode.



- Send a radio telegram from the selected transmitter (fig. H); see also „Local activation“.



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

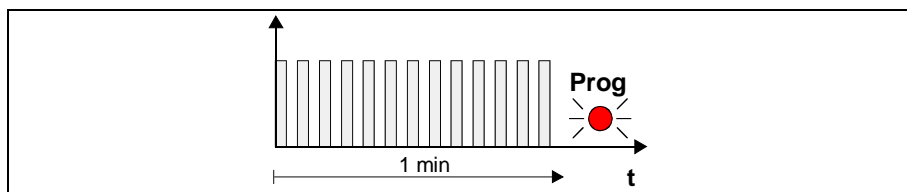


- The programming mode ends automatically after about 1 minute or can be terminated by a short depression of the extension pushbutton. The radio-control actuator is then again in the normal operating mode.

- ① When all 30 memories are occupied, it is necessary to delete an already stored transmitter before a new one can be programmed.
- ① 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.

4.1. 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. J).

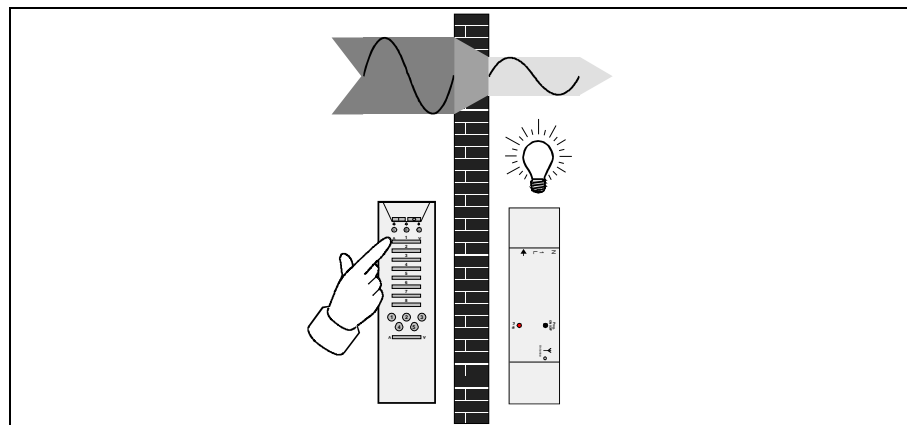


5. Radio transmission

Radio transmission takes place on non-exclusive frequencies. Interference can therefore not be excluded. This type of radio transmission is not suitable for safety applications such as emergency shut-off or emergency calling functions.

The transmitting range of a radio transmitter (max. 100 m in free space) is dependent on local building conditions:

Dry material	Penetrability
Wood, plaster, gypsum	abt90 %
Brickwork, chipboarding	abt70 %
Reinforced concrete	abt30 %
Metal, metal gridding, aluminium	abt10 %
rain, snow,	abt.0– 40 %



5.1. 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/EG). The complete declaration of conformity can be found in the Internet under: www.jung.de/ce.

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

6. Technical Data

Voltage:	AC 230 V~, 50/60 Hz
Switch contact:	Relais, 10 A
Switching capacity	
incandescent lamps:	2300 W
HV halogen lamps:	2300 W
LV halogen lamps	
-conv. transformer:	1000 VA
-Jung Tronic transformer:	1500 W
fluorescent lamps	
-non-compensated:	1200 VA
-parallel compensated.:	920 VA
-lead-lag circuit:	2300 VA

Energy-saving lamps:

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

Temperature:	-20 °C bis +55 °C
Frequency:	433,42 MHz, ASK
Dimensions:	175x42x18 mm

Technical specifications subject to change.!

7. 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:

ALBRECHT JUNG GMBH & CO. KG

Service-Center

Kupferstr. 17-19

D-44532 Lünen

Service-Line: 0 23 55 . 80 65 51

Telefax: 0 23 55 . 80 61 89

E-Mail: mail.vki@jung.de

General equipment

Service-Line: 0 23 55 . 80 65 55

Telefax: 0 23 55 . 80 62 55



E-Mail: mail.vkm@jung.de

instabus EIB equipment

Service-Line: 0 23 55 . 80 65 56

Telefax: 0 23 55 . 80 62 55

E-Mail: mail.vkm@jung.de

 The -sign is a free trade sign addressed exclusively to the authorities and does not include any warranty of any properties.