GEIGER
ANTRIEBSTECHNIK

Radio Switching Actuator GFU003 for flush mounted installation

GFU003

Operating instructions

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1. General

The radio-controlled switching actuator **GFU003** is suitable for flush-mounted installation in a switch box or a junction box. It can switch lights or other electrical devices up to 500 W resistive load with 230 V.

A 434 MHz radio receiver is integrated into the switching actuator **GFU003**. You can easily operate the switching actuator with a radio handheld transmitter or a radio wall-mounted transmitter.

During assembly, please make sure that the stationary transmitters are more than 2 m away from the receiving antenna.

You also have the option to connect a switch with two buttons / two switching functions in order to allow selective turning on and off. These buttons must be potential-free. Please do not use here 230 V. This would damage the control.

Different acoustic signals are emitted by the control during programming.

1.1 Operation via push button and two-key transmitter

Operated key	Reaction of the control
ON	Light / electric device on
ON	Relay is closed, light /electric device is on
OFF	Light / electric device off
OFF	Relay is open, light / electric device is off

The assignment of the transmitter buttons to the control commands is determined by the user while learning.

1.2 Disabling the learning mode

For safety reasons, the control programming is only possible within the first 30 minutes after switching on the mains voltage. After the control blocks the learning procedure so that unauthorized persons have no access to the programmed parameters. To modify the control setting, please power off and then back on.

2. Learning mode / control set up

- A maximum of three different transmitters can be learned. The control can therefore be a part of three independent groups.
- If three transmitters have already been learned and if an attempt is made to learn a 4th one, the last transmitter actually stored is deleted and the new transmitter stored instead.
- If you try to learn a transmitter whose radio code has already been learned, then the learning will be denied and a rapid succession of short tones is emitted. The control expects a different radio code.
- Should no action be taken within 30 seconds, the learning mode will be deactivated! You will hear six signal tones and the control returns to normal operation.
- You can only delete all learned remote codes together.

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2.1 Learning a transmitter

The order sequence is specified: the first input on a transmit button receives the function ON, the second input the function OFF.

2.1.1 Learning the transmitter

1. Hold the transmitter to be learned directly to the receiving antenna and press a key about 3 seconds until an audible signal is emitted. The learning mode is activated.
2. Keep holding the transmitter to the receiving antenna and activate briefly the key for the ON command. The radio code is learned and an audible signal is emitted for acknowledgement.
3. The control returns to normal operating mode.

2.1.2 Deleting the learned transmitter

1. Hold any transmitter directly to the receiving antenna and actuate a key about 3 seconds until an audible signal is emitted. The control has changed over to learning / deleting mode.
2. Hold the transmitter directly to the receiving antenna and actuate any key about 5 seconds until a long tone is emitted. All stored radio codes - radio codes of the sensors as well – will be deleted. Then the control returns to normal operating mode.

2.1.3. Factory setting

The device is delivered pre-coded with GEIGER coding.

For the first learning, the GEIGER code will be replaced by a transmitter code. Set the individual code on the handheld transmitter via DIP switch (see operating instructions handheld radio transmitter).

2.2 Audible signals emitted by the control for fault diagnosis

1 long and 3 short tones	“Power on” signalling message after mains power on
1 long tone	The learning mode operation was activated
1 long tone	A radio code has been learned and stored
Rapid succession of short tones	Error message: The radio code to be learned is already assigned otherwise
6 tones	Error message: the learning procedure was aborted because time has expired
1 very long tone	All radio codes are deleted.
Control signals SOS	Error message: memory module is defective. The control needs to be mended
Short tones emitted in intervals of approx. 500 ms	Error message: Data stored in the memory module got lost. Submit the control to a new learning procedure. In the event this fault reoccurs, the control should be repaired.

3. Technical characteristics GFU003

Supply voltage	230 V (+/-10%) / 50 Hz
ON/OFF switching	2-chanel
Switch-on time	unlimited
Relay switching current (resistive)	3 A
Protection class	IP 00
Dimensions	about 52 x 47 x 27 mm

Subject to technical modifications

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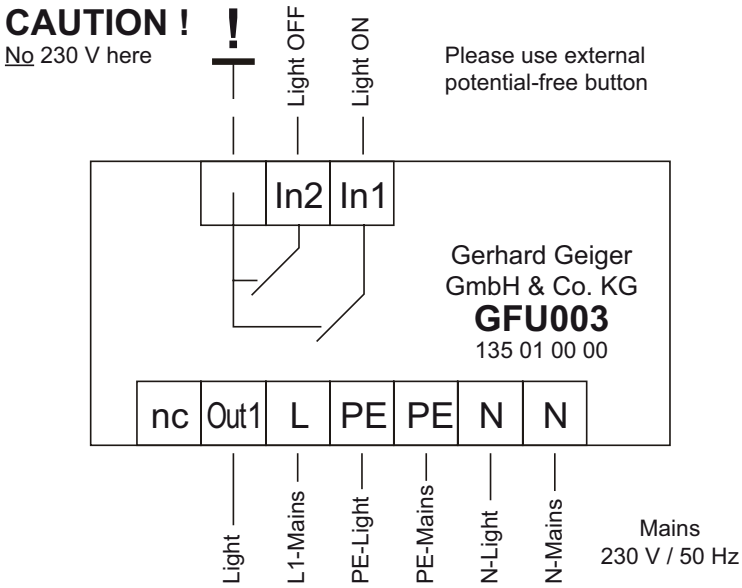
4. Declaration of Conformity

We herewith explicitly declare that this product complies with the essential requirements and relevant directives. It is authorised for use in all EC member states and in Switzerland without any need of prior registration.

The Declaration of Conformity concerning this product is available on our website: www.geiger.de.

5. Connection Diagram



6. Waste Disposal

Recycling of packaging materials

In the interest of environmental protection, please contact your local government's recycling or solid waste management department to learn more about the services it provides.

Waste disposal of electric and electronic equipment

Electronic equipment or batteries cannot be discarded along with the normal household waste. Keep for more information on the recycling and disposal methods envisaged by the local regulations in your area.

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For technical questions, please call our service team at: +49 (0) 7142 938 333. They will be happy to assist you.

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