

sygonix®

GB Operating instructions

RSL wireless built-in switch

Item no. 1761743

Latest operating instructions

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Explanation of symbols



The lightning symbol inside a triangle is used when there is a potential risk of personal injury, such as electric shock.



An exclamation mark in a triangle indicates important instructions in this operating manual that absolutely have to be observed.



The arrow symbol indicates specific tips and advice on operation.

Delivery content

- RSL wireless built-in switch
- Operating instructions



Intended use

The radio-controlled flush-mounted switch, in combination with a suitable radio-controlled remote switch of the RSL system is used to wirelessly switch a connected consumer load on or off.

The radio-controlled flush-mounted switch is only suitable for operation on the mains voltage (230 V/AC, 50 Hz). A maximum consumer load of 2000 W (Ohm resistive load) or 300 W (inductive load) can be connected.

It is intended for indoor use only. Do not use it outdoors. Contact with moisture, e.g. in bathrooms, must be avoided under all circumstances.

For safety and approval purposes, you must not rebuild and/or modify this product. If you use the product for purposes other than those described above, the product may be damaged. In addition, improper use can cause hazards such as short circuiting, fire, electric shock etc. Read the instructions carefully and keep them. Make this product available to third parties only together with its operating instructions.

This product complies with the statutory national and European requirements. All company names and product names are trademarks of their respective owners. All rights reserved.

Safety instructions



Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling in this manual, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/guarantee.



- The device is not a toy. Keep it out of the reach of children and pets.

- Do not leave packaging material lying around carelessly. This may become dangerous playing material for children.
- Protect the product from extreme temperatures, direct sunlight, strong jolts, high humidity, moisture, flammable gases, vapours and solvents.
- Do not place the product under any mechanical stress.
- If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use. Safe operation can no longer be guaranteed if the product:
 - is visibly damaged,
 - is no longer working properly,
 - has been stored for extended periods in poor ambient conditions or
 - has been subjected to any serious transport-related stresses.
- Please handle the product carefully. Jolts, impacts or a fall even from a low height can damage the product.
- Also observe the safety and operating instructions of any other devices which are connected to the product.
- The product may only be installed by a qualified technician (e.g. electrician) who is familiar with the relevant regulations (e.g. VDE, German electrical wiring regulations)!

Improper work, carried out on the mains voltage, endangers not only your own life but also the life of others!

If you do not have the expertise required for the installation, do not install it yourself but ask a qualified technician.
- Do not use this product in hospitals or medical institutions. Although the transmitters of the RSL system emit only relatively weak radio signals, these may lead to malfunction of life-supporting systems. The same may be the case in other areas.

- The product may only be operated on the mains voltage (see section "Installation and Connection" and "Technical Data"). Never try to operate the product at another voltage as this will cause its destruction.
- The installation may only be carried out, if all poles of the mains supplies of the wireless flush-mounted switch are disconnected from the mains voltage. Otherwise, there is a mortal danger by an electric shock!
- An all-pole disconnection from the mains voltage (such as a surge protector) must be provided as part of the wiring set-up.
- Never touch the product when your hands are wet or damp! There is a risk of a life-threatening electric shock!
- Only use the product when it is firmly mounted and steady. Insert the product e. g. into a suitable flush-mounted socket or surface box.
- If you have reason to assume that safe operation is no longer possible, disconnect the product immediately and secure it against accidental operation. Neither touch the wireless flush-mounted switch nor any connected device.

Disconnect the wireless flush-mounted switch from the mains voltage by switching off the corresponding circuit breaker or removing the fuse. Furthermore, turn off the earth leakage circuit breaker in order to disconnect all the poles of the mains supply. Let an expert check the product.
- In commercial institutions, the accident prevention regulations of the employer's liability insurance association for electrical systems and operating facilities are to be observed!
- Consult an expert when in doubt about operation, safety or connection of the device.

- Maintenance, modifications and repairs are to be performed exclusively by an expert or at a qualified shop.
- If you have questions which remain unanswered by these operating instructions, contact our technical support service or other technical personnel.

Preparations for installation



Please observe the chapter "Safety instructions"!

- The wireless flush-mounted switch must be mounted and operated in a suitable flush-mounted socket or surface box, or in another housing suitable for this purpose.
- Only use the wireless flush-mounted switch when it is firmly mounted.
- The radio flush-mounted switch must be disconnected from the power supply during installation. For this purpose, switch off the electrical mains supply by switching off at the corresponding circuit breaker or removing the fuse. Secure it against an unauthorised re-start, e.g. with a danger sign.

Furthermore, turn off the earth leakage circuit breaker in order to disconnect all poles of the mains supply from mains voltage.
- Check that the mains supply is current free with a suitable tester.

Installation and connection



Observe the chapter "Preparations for installation"

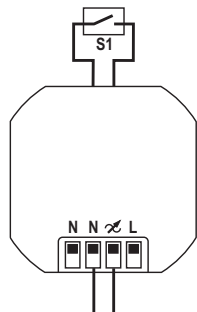
The wireless flush-mounted switch can be used as a complementary component providing an additional wireless switching function for a wall switch. This means the existing wall switch is still used. However, the consumer load (e. g. a room lighting) connected to the wall switch can now be controlled additionally using a wireless flush-mounted switch or a wireless remote control of the RSL system.

This implies that the flush-mounted socket provides sufficient space to install the wireless flush-mounted switch behind the existing wall switch.

- Loosen the cover of the wall switch and remove the wall switch from the flush-mounted socket.
- Connect both cables of the wireless flush-mounted switch with the two switching contacts of your wall switch ("S1"), see picture on the right.
- Connect the consumer load to the two middle screw terminals, see picture on the right.

The connection "N" is the neutral conductor, the connection "⌘" is the connected output/phase/L.
- The outer two screw terminals are used for the connection to the mains voltage ("N" = neutral conductor, "L" = phase).
- Insert the wireless flush-mounted switch into the flush-mounted socket.

Pay attention that the push-button on the housing's rear is exposed during installation and not accidentally pushed.



- The push-button on the housing's rear is used to "train" or tune the switch to the radio transmitter of the RSL switching system.

Therefore, observe the following chapters before you reinsert and refasten the wall switch in the flush-mounted socket.

Operation

a) Tuning the wireless flush-mounted switch to a radio transmitter

The radio flush-mounted switch can be programmed to any radio transmitter of the RSL system, e.g. to a radio-controlled wall transmitter or a wireless remote control.

- The switch can be programmed to a total of 10 different radio transmitters of the RSL system. Thus, the wireless flush-mounted switch can e. g. be switched on or off from several locations.

Proceed as follows:

- Press and hold the push-button on the wireless flush-mounted switch (longer than 3 seconds) until the LED next to the push-button starts to blink. The programming mode will be activated for approx. 15 seconds and then exited automatically.
- When the programming mode is activated (LED next to the button flashes), press and hold the "On" key of the radio-controlled wall transmitter ("I" key) or the corresponding "ON" key of a wireless remote control (longer than 3 seconds) until the LED lights permanently and the connected consumer load is turned on.
The tuning process has been completed successfully. The programming mode will be exited automatically.

If you wish to tune the switch to another radio transmitter, the programming mode must be activated first. Please proceed as described above.

- The programming mode will also be activated (LED flashes) when the mains voltage is connected (e. g. during initial start-up). Now a radio-controlled wall transmitter or a wireless remote control can be programmed within approx. 15 seconds, see above.

b) Disabling a programmed, wireless flush-mounted switch from a radio transmitter

If you wish to use the switching channel of a radio-controlled transmitter (radio wall switch or wireless remote control) e. g. for another wireless flush-mounted switch, this channel can be released as follows:

- For approx. 3 seconds, press and hold the two operating keys of your radio-controlled transmitter for the "On" and "Off" function of the switching channel that you wish to release.
 - Wireless wall switch: Press the "I" and "O" keys simultaneously for more than 3 seconds.
 - Radio remote control: Press the "ON" and "OFF" keys simultaneously for more than 3 seconds.
- The LED on the wireless inbuilt switch starts blinking. The programming mode is now activated for approx. 15 seconds and afterwards, will be exited automatically.
- Press and hold the "O" key on a wireless wall switch or the "OFF" key of the corresponding switching channel on a wireless remote control for at least 3 seconds.
- The LED on the wireless wall switch goes out.

- This disables the connection between the radio-controlled flush-mounted switch and the radio-controlled transmitter. Now the radio-controlled inbuilt switch does no longer react to the corresponding radio transmitter.

- Observe the operating instructions for the radio-controlled transmitter of the RSL system you are using.

c) Switching on/off via the push-button on the wireless flush-mounted switch

- For a function test the consumer load connected to the wireless inbuilt switch can also be switched on and off using the push-button.
- Briefly press the button on the wireless flush-mounted switch to turn the consumer load on (LED on the switch lights up) or off (LED goes out).

Function test

- If haven't already programmed the wireless flush-mounted switch, you have to program or tune it to a radio transmitter of the RSL system (e. g. to a radio-controlled wall switch or a wireless remote control).
- Make sure that the wireless inbuilt switch is supplied with mains voltage (230 V/AC 50 Hz).
- Press the "I" button on the radio-controlled wall switch or the switching channel's "ON" button of a radio remote control to which the wireless inbuilt switch was tuned.
The red LED on the wireless flush-mounted switch lights up and the switching output will be activated and a connected consumer load switched on.

- To deactivate the switching output and to switch off the consumer load, briefly press the "O" button on the radio-controlled wall switch or the switching channel's "OFF" key of the a wireless remote control to which the inbuilt switch was tuned/programmed.

The red LED on the wireless inbuilt switch goes out.

Range

Depending on the radio transmitter of the RSL system used, the range is up to 70 m.

- This value, however, is the so-called "open space range" (the range the transmitter and receiver are visible to each other, without disturbing influences).

In practical operation, however, there are walls, the ceilings of rooms etc. between the transmitter and the receiver which reduce the range correspondingly.

Due to the different influences on the radio transmission, no specific range can be guaranteed. However, trouble-free operation is usually possible in a detached house.

The range can sometimes be limited considerably by:

- Walls, reinforced concrete ceilings
- Coated/vapour-deposited, metallized insulating glass panes
- Proximity to metal & conducting objects (e.g. radiators)
- Proximity to human bodies
- Broadband interferences, e.g. in residential areas (DECT telephones, mobile phones, radio-controlled headphones, radio-controlled speakers, radio-controlled weather stations, baby phones etc.)

- Proximity to electric motors, transformers, power-supply units, computers
- The proximity to improperly shielded or uncovered operating computers or other electric appliances

Care and cleaning

The product does not require any maintenance and should never be opened or disassembled for any reason. Repair or maintenance work must be carried out by a specialist.

Declaration of Conformity (DOC)

Conrad Electronic SE, Klaus-Conrad-Straße 1, D-92240 Hirschau hereby declares that this product conforms to the 2014/53/EU directive.

- Click on the following link to read the full text of the EU declaration of conformity: www.conrad.com/downloads

Select a language by clicking on a flag symbol and enter the product order number in the search box. You can then download the EU declaration of conformity in PDF format.

Disposal



Electronic devices are recyclable waste and must not be disposed of in the household waste. At the end of its service life, dispose of the product according to the relevant statutory regulations.

You thus fulfil your statutory obligations and contribute to the protection of the environment.

Technical data

Operating voltage 230 V/AC, 50 Hz
Switching capacity 2000 W (resistive load)
300 W (inductive load)

- Consumer loads with mainly resistive load are e.g. light bulbs, heaters etc.

Devices with inductive load are e.g. engines, control gears, conventional transformers, energy saving light sources etc.

Receiving frequency 433.05 - 434.79 MHz
Receiving range max. 70 m (in open area)
Ambient temperature 0 to +35 °C
Dimensions (W x H x D) 48.5 x 48.5 x 25 mm
Weight approx. 39 g

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