sygonix®

GB **Operating instructions**

RSL wireless built-in switch mini

Item no. 1761737

CE

Latest operating instructions

Download the latest operating instructions via the link www.conrad.com/downloads or scan the QR code shown. Follow the instructions on the website.

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 mini
- Operating instructions

Intended use

With the built-in radio receiver switch, a connected device can be turned on and off wirelessly using a suitable radio remote control from the RSL system. For example, this includes RSL radio remote controls, door and window contacts, wall-mounted switches and wireless motion detectors.

The built-in radio receiver switch is only suitable for use on a mains connection with a voltage of 230 V/ AC, 50 Hz. A maximum load of 3500 W (ohmic load) / 600 W (inductive load) can be connected. Ohmic loads arise mainly from devices that execute their functions through electrical resistance. Devices with a predominantly ohmic load include incandescent bulbs, heating appliances and other similar devices. Devices with an inductive load include motors, ballasts, conventional transformers (no switched-mode power supplies), energy-saving light sources and other similar devices. These contain coils which produce electrical resistance that counteracts the flow of the current.

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 must only be installed by a qualified electrical technician (e.g. electrician) who is familiar with the relevant regulations (e.g. VDE)!
- Conducting improper work on mains electricity endangers not only yourself but also others!
- If you do not possess the technical knowledge necessary for the installation, do not undertake the installation work yourself; consult a technician.
- In industrial facilities, the accident prevention regulations for electrical equipment and facilities issued by the Industrial Employers' Liability Association must be adhered to!
- Do not use this product in hospitals or medical facilities. Although the sensors of the RSL system transmit relatively weak radio signals, they could lead to malfunctions in life-support systems. The same could also apply to other areas.
- The product must only be operated using mains voltage (see "Connection and installation" and "Technical data"). Never try to operate the device using another voltage as this will destroy the product.
- Installation may only take place when all the cables to the receiver switch have been isolated from the mains connection. Failure to do so may result in risk of death due to electrical shock!
- The product must only be installed and operated in dry, enclosed rooms. It must not become damp or wet! Never touch the product with damp or wet hands! Doing so may result in risk of death due to electrical shock!
- An all-pole disconnection from the mains voltage (e.g. RCD) must be provided as part of the wiring set-up.
- The product must only be installed and operated in a fixed position. For example, mount the product in a suitable flush-mounting or surface-mounting box.
- 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.

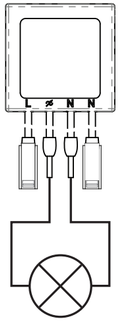
Preparations for installation

Be sure to refer to the "Safety instructions" section.

- The receiver switch must be mounted and operated in a suitable flush-mounting / surface-mounting box or other suitable housing (with a depth of at least 40 mm).
- The receiver switch must only be installed and operated in a fixed position.
- The receiver switch must only be installed when the mains supply is disconnected. Disconnect the mains power supply by disconnecting the circuit breaker and unscrewing the fuse. Protect against unauthorized reconnection, e.g. with a warning sign.
- In addition, disconnect the residual current operated circuit breaker (RCCB) so that the mains cable is fully isolated from the mains voltage.
- For safety, check that there is no current in the power wires using a suitable measuring device.

Connection and installation

Refer to the "Preparations for installation" section.



1. Connect the device that you wish to switch to the two inner connections on the receiver switch; see the schematic diagram on the right.
2. The "N" connection is the neutral conductor; the "⏚" connection is the switched output/phase/L.
3. The outer connections with the two push terminals are for connection to the mains ("N" = neutral conductor, "L" = phase).
4. The RSL Mini 3500 W built-in radio receiver switch is designed to be inserted directly into a flush-mounted or surface-mounted box.
5. When mounting, ensure that the button on the back of the housing is exposed and not pressed accidentally.
6. The button on the back of the housing is used (among other things) to train the receiver switch to connect to a radio transmitter on the RSL system.

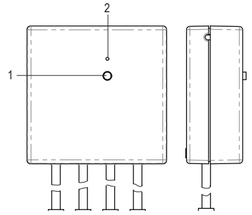
Observe the following sections before sealing the flush-mounted or surface-mounted box and putting the product into operation.

Operation

a) Training the receiver switch to connect to a remote control

The receiver switch can be taught to connect to a radio transmitter on an RSL system such as a wall-mounted radio transmitter or a radio remote control. Pay attention to the details in the instruction manual for the transmitter you are using.

→ Up to 8 different radio transmitters on the RSL system can be learnt. The receiver switch can then be turned on or off from different places.



1 Button

2 LED indicator

Follow the steps below to train the switch:

Usage scenario: No radio codes saved

1. Connect the receiver switch to the mains. The LED indicator (2) begins to flash red; the receiver switch is in learning mode.
2. Press the control button on the RSL radio transmitter. The on/off control buttons are often marked with “ON” or “OFF”. Keep the button on the RSL radio transmitter pressed down until the LED indicator next to the button on the receiver switch stops flashing. The radio code for this transmitter is now recognised and saved.
3. The learning procedure has been successfully completed; the device exits automatically from the learning mode.

Usage scenario: Radio code/s already saved

1. Connect the receiver switch to the mains. The LED indicator does not flash. Keep the button (1) on the receiver switch pressed down until the LED indicator (2) starts to flash. The receiver switch is now in learning mode for a new additional code.
2. Press the control button on the RSL radio transmitter. The on/off control buttons are often marked with “ON” or “OFF”. Pay attention to the details in the instruction manual for the transmitter you are using. Keep the button on the RSL radio transmitter pressed down until the LED indicator next to the button on the receiver switch stops flashing. The radio code for this transmitter is now recognised and saved.
3. The learning procedure has been successfully completed; the device exits automatically from the learning mode.
4. Repeat these configuration steps to save more RSL radio transmitters until the maximum number of transmitters that can be saved is reached.

b) Deleting saved radio transmitters from the receiver switch

You can clear all radio codes simultaneously, or if, for example, you want to use the switching channel of a radio transmitter (wall-mounted switch or radio remote control) for another receiver switch, the switching channel can be cleared individually. Pay attention to the details in the instruction manual for the transmitter you are using.

Usage scenario: clear all radio codes

1. When the receiver switch has turned off the device, press the button until the LED indicator (2) starts to blink. The receiver switch is now in learning mode.
2. Release the switch, then press again and hold until the LED indicator (2) goes off. All saved radio codes are now deleted.

Usage scenario: delete an individual radio code

1. Hold down the receiver button (1) until the indicator LED (2) starts flashing.
2. Hold down the channel button (the button the channel was assigned to) on your remote control until the indicator LED goes off.

c) Turning on/off using the button on the receiver switch

- For a functional test, the device connected to the receiver switch can also be switched on/off with the button.
- Briefly press the button on the receiver switch to turn the device on (the LED on the receiver switch illuminates) or off (the red LED goes off).

Functional test

- If you have not already done so, you must first train the receiver switch to connect to an RSL system radio transmitter (e.g. a wall-mounted switch or a radio remote control).
- Ensure that the receiver switch is connected to the mains (230 V/ AC 50 Hz) .
- Press the ON button on the RSL transmitter that the receiver switch was trained to connect to. The red LED indicator on the receiver switch illuminates and the switching output is activated. The connected device is turned on.
- To deactivate the switching output and turn off the connected device, briefly press the OFF button on the RSL transmitter that the receiver switch was trained to connect to. The red LED on the receiver switch turns off.
- If the functional test fails, delete the code, retrain the RSL switch and test again as described above.

Range

The transmission range is up to 70 m, depending on the RSL system radio transmitter used.

→ However, this transmission range value refers to the so-called “open area transmission range”. This transmission range denotes the idealized distance between the transmitter and receiver within unhindered and direct eye contact and without disruptive influences.

In practice, however, there are walls, ceilings and other structures between the transmitter and receiver, which correspondingly reduce the transmission range.

Due to the different effects these have on radio transmission, it is unfortunately not possible to guarantee a specific transmission range. Nevertheless, the device can normally be operated without problems in a detached house.

The transmission range can be significantly reduced by:

- Walls, reinforced concrete ceilings
- Laminated/metallized insulating glass
- Proximity to metal and conductive objects (e.g. radiators)
- Proximity to the human body
- Broadband interference, e.g. in residential areas (DECT cordless phones, mobile phones, wireless headphones, wireless speakers, wireless weather stations, baby monitoring systems etc.)
- Proximity to electrical motors, transformers, power adaptors and computers
- Proximity to poorly covered or open computers or other electrical devices

Care and cleaning

This product is maintenance-free, never open/dismantle it. Consult a technician for maintenance or repair.

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

Compatible radio remote controls.....Item no. 646614, 1761732, 1761735, 1761740, 1761742, 1761744, 1761745, 1761747, 1761748, 1761749, 1761750, 1761752, 1761753

Operating voltage .....230 V/AC, 50 Hz

Switching power .....3500 W (ohmic load), 600 W (inductive load)

Transmission frequency.....433.05 - 434.79 MHz

Transmission range .....max. 70 m (in open area)

Receiving frequency .....433.05 - 434.79 MHz

Receiving range.....max. 70 m (in open area)

Operating conditions.....0 to +45 °C, 0 - 90 % RH (non-condensing)

Storage conditions.....0 to +45 °C, 0 - 90 % RH (non-condensing)

Dimensions (W x H x D) .....41 x 41 x 18 mm

Weight .....32 g