

sygonix®

GB Operating instructions

RSL wireless built-in switch mini

2-wire

Item no. 1761738

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
- Operating instructions



Intended use

The Wireless Inbuilt Switch is intended for switching on and off devices connected by suitable wireless remote controls, via the RSL System.

The Wireless Inbuilt Switch may only be used on the mains voltage (230 V/AC, 50 Hz). For information about the switching capacity, see the section "Technical Data".

The product's special design means it does not require a neutral wire, which makes it very easy to install in existing electric installations.

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.

- This product may only be installed by a qualified technician (e.g., an 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 RSL System transmitters only emit relatively weak radio signals, these may lead to the malfunctioning of life-support systems. The same may also be the case in other areas.

- The product may only be operated on the mains voltage (see chapter "Installation and Connection" and "Technical Data"). Never try to operate the product at another voltage as this will cause its destruction.

- Only carry out the installation when all the mains cables to the wireless inbuilt switch are disconnected from the mains voltage. Otherwise, there is a risk of a life-threatening 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.

- The product may only be installed and used in dry indoor spaces, it must not get damp or wet. Never touch the product with wet or damp hands! There is a risk of a life-threatening electric shock!

- Only use the product when it is securely installed and steady. Install the product, for example, in a suitable flush or wall mounted contact box.

- If you have reason to assume that safe operation is no longer possible, disconnect the product immediately and secure it against inadvertent operation. Do not touch the wireless inbuilt switch or any connected device.

Disconnect the wireless inbuilt switch from the mains, by switching off at the appropriate circuit breaker or by pulling out the fuse. Furthermore, turn off the earth leakage circuit breaker to disconnect all the poles of the mains supply. After this, arrange for an expert to 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 refer to the section "Safety instructions"!

- To use, install the wireless inbuilt switch in a suitable flush or wall mounted box or other suitable housing.

- Only use the wireless inbuilt switch when it is securely installed.

- The wireless inbuilt switch must be disconnected from the mains supply during installation. Turn off the mains supply, by switching off at the appropriate circuit breaker or by pulling out the fuse. Secure it against unauthorised reconnection, e.g., with a danger sign.

Furthermore, turn off the earth leakage circuit breaker to disconnect all the poles from the mains voltage.

- Check that the mains connection is current free with a suitable tester.

Installation and connection



Refer to the section "Preparations for installation".

In older domestic electric installation systems, there is frequently no neutral wire in the existing wall sockets. In these cases conventional wireless switch systems cannot be installed without expensive upgrading of the wiring and the resulting necessary masonry work.

Thanks to the special 2-wire design of the inbuilt wireless switch you do not need the neutral wire - the two existing wires (phase "L" and switched phase "L'") are sufficient.

The 2-wire design of the wireless inbuilt switch is therefore ideal, if you want to supplement a conventional wall switch with an additional wireless switch function. This means you can keep your existing wall switch and the light, which has been switched on and off up till now at the wall switch, can now also be operated using a wireless wall transmitter or with a RSL system remote control.

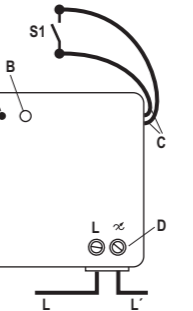
The wall socket has to have sufficient space to install the wireless inbuilt switch behind the existing wall switch.

- Remove the cover of your existing wall switch and remove the switch from the wall socket.

- Remove the two cables (Phase "L" and switched Phase "L'") from the wall switch and connect them to the two screw clamps (D) on the wireless inbuilt switch; see the diagram on the right.

If the "L" and "L'" connections are reversed or, instead of the Phase "L", the Neutral, "N" cable is connected, this may mean it is not being possible to program the wireless inbuilt switch or, where there are LED lights, to their malfunction.

- Connect the two wires (C) on the wireless inbuilt switch to the two switch contacts on your wall switch ("S1"; see the diagram on the right).



- Position the wireless inbuilt switch in the wall socket, so the LED (A) and the push button (B) are pointing towards you.

Take care during installation so as not to inadvertently switch on the push button (B). This is intended, for example, to assign a transmitter or to delete all registered transmitters.

- Read the following sections carefully before installing and securing the wall switch in the wall socket.

Assigning the first switching channel/transmitter

The wireless inbuilt switch can be assigned to any wireless transmitter in the RSL System, e.g. a wireless wall transmitter or a remote control.

- A total of 10 different switching channels/wireless transmitters in the RSL System can be assigned. Thus, the wireless inbuilt switch can be turned on and off from different locations.

When it is used for the first time, at least one switching channel/transmitter must be assigned. Each assigned switching channel can be used for assigning further switching channels/transmitters.

Proceed as follows:

- Switch on the power supply. The LED light on the wireless inbuilt switch will then flash on and off for approx. 15 seconds, during which time the wireless inbuilt switch is in the programming/assign mode.



To restart the programming/assign mode after these 15 seconds, hold down the push button (B) on the wireless inbuilt switch for approx. 3 seconds, until the LED (A) starts flashing. This can also be used, if you want to register additional switching channels/transmitters.

Use a suitable electrician's screwdriver for this! Never touch the screw clamps, the cable wires or the wall switch during this process! There is a risk of a fatal electric shock!

- Additional switching channels/transmitters can be assigned later with a switching channel/transmitter that has already been assigned. The push button on the wireless inbuilt switch is not required for this. Please consult the section "Operation".

- During these 15 seconds (with LED flashing) press and hold the "on" button on a wall-mounted radio transmitter or a wireless remote control (marked "ON" or "I") for at least 3 seconds, until the LED light becomes steady and the connected lamp is turned on.

The switching channel/transmitter has been assigned and the programming/assign process is finished.

- Switch the power supply off again. Check that the mains connection is current free using a suitable tester. Now install the wall switch in the wall socket.

- Take care during this process that you do not inadvertently switch on the push button (B), for example, make sure the wall switch, once inserted, does not press against the wireless inbuilt switch.

- Attach the front casing and the wall switch's rocker switch.
- Switch on the voltage supply.

- The wireless inbuilt switch is now ready for operation. The light that is connected to it can now either be operated as before, at the wall light switch, or via the assigned transmitter.

→ Additional switching channels/transmitters can be assigned with the switching channel/transmitter that was assigned first. The push button on the wireless inbuilt switch is not required for this. Please consult the section "Operation".

Operation

a) Assigning additional switching channels/transmitters

- Start the wireless inbuilt switch in the programming/assign mode. To do this, use a transmitter that is already registered for your wireless inbuilt switch.

For a minimum of 3 seconds, press **simultaneously** the "ON" and "OFF" push buttons on the transmitter (marked, e.g. "ON" and "OFF" or "I" and "O"). Make sure the two push buttons are for the same switching channel.

→ For example, if you have assigned Switching Channel 1 on a 4-channel remote control to the wireless inbuilt switch, press both buttons on Switching Channel 1 for 3 seconds.

Please note: If this switching channel is already assigned to another RSL receiver, this also changes to the programming/assign mode (for example the wireless inbuilt switch and a wireless switch socket, if both devices have been assign to Switching Channel 1 on a remote control).

Therefore, to avoid this happening, you should only start the programming/assign process for the wireless inbuilt switch using a transmitter/switching channel that is not assigned to another RSL receiver!

- The programming/assign mode of the wireless inbuilt switch is then activated for 15 seconds (the LED **(A)** flashes, but of course, due to the installation location, it is not visible). During this period the new switching channel/transmitter must be assigned.



You can also start the programming/assign process by pressing the push button **(B)** on the casing of the wireless inbuilt switch for at least 3 seconds, until the LED **(A)** starts flashing.

However, because this requires the wall switch installed in front of the wireless inbuilt switch to be removed from the wall socket, this process may only be carried out by a qualified electrician.

- Now move on to the next transmitter that you want to assign.

→ You can also assign several switching channels to a **single** transmitter. For example, on a 4-channel remote control, Channel 1 might only operate the ceiling light in the kitchen, Channel 2 could then control the ceiling light and a wireless socket in the RSL system simultaneously while Channel 3 could be dedicated solely to the wireless switch socket. While channel 4 could operate the ceiling lights in the kitchen and bathroom simultaneously.

- Press the "on" button on a switching channel or a remote control (e.g. the "I" button on a wireless wall transmitter or the "ON" button on a remote control) for at least 3 seconds, until the light connected to it switches on. Then, release the button again.

- The new switching channel/transmitter has been assigned and the programming/assign process is finished.

- If you wish to program further wireless transmitters, you have to reactivate the programming/assign process. Please proceed as described above.

→ Any programmed switching channel/ transmitter can be used to start the programming/assign process on the wireless inbuilt switch and to assign other switching channels/transmitters.

b) Deleting a single assigned switching channel/transmitter from the Wireless Inbuilt Switch

If the wireless inbuilt switch no longer appropriate for a switching channel / transmitter (e.g. if you want to use the switching channel for a different wireless receiver in the RSL system), the switching can be deleted from the wireless inbuilt switch's registry.



Leave at least one switching channel/transmitter registered on the wireless inbuilt switch. Otherwise, you will have to go back to the installation and getting started procedure.

However, because this requires the wall switch installed in front of the wireless inbuilt switch to be removed from the wall socket, there is a risk of a fatal electric shock. Therefore, this work must only be carried out by a qualified electrician (exactly as required for the initial connection and installation procedure!)

Proceed as follows:

- Use the transmitter with the switching channel you want to delete from the wireless inbuilt switch.

- Press the "ON" and "OFF" push buttons for the switching channel you want to delete, for at least 3 seconds.

- The wireless inbuilt switch's programming/assign mode is then activated (the LED **(A)** flashes, but of course, due to the installation location, it is not visible); it stops automatically after 15 seconds. During this period the switching channel/transmitter must be deleted.

- Press the "ON" or "O" push button for the switching channel you want to delete for at least 3 seconds.

- The switching channel is deleted from the wireless inbuilt switch and the programming/assign mode ends automatically.

c) Deleting all switching channels/transmitters and restoring to factory settings



However, because this requires the wall switch installed in front of the wireless inbuilt switch to be removed from the wall socket, there is a risk of a fatal electric shock. Therefore, this work must only be carried out by a qualified electrician (exactly as required for the initial connection and installation procedure!)

- The LED on the wireless inbuilt switch must be off; if necessary, briefly press the push button **(B)** to switch off the light connected to it, which will extinguish the LED **(A)**.

- Press the push button **(B)** on the wireless inbuilt switch for longer than 3 seconds, so that the programming/assign mode is activated. The LED **(A)** flashes.

- Press the push button **(B)** on the wireless inbuilt switch for longer than 3 seconds again. The LED **(A)** goes out. All the stored switching channels/transmitters are deleted.

- Now proceed as described in the section "Assigning the first switching channel/transmitter".

Operation

- The connected light can be switched on or off at the wall switch as usual.

→ Due to the operating principle, when using a wireless transmitter switch it is sometimes the case that it is no longer possible to use the ON/OFF rocker switch on the wall to operate the light.

Example: The light is off, but the rocker switch is in the down position. In which case, you switch the light on using the transmitter and you turn off the light switch on the wall. Now, the rocker switch is pointing up!

- Alternatively, the wall switch can be activated, to turn the light on or off, via the RSL system, which has been registered on the wireless inbuilt switch.

- Switching on: Briefly press the "I" button (Wireless wall transmitter) or the "ON" button on a remote control.

- To switch off: Briefly press the "O" button (Wireless wall transmitter) or the "OFF" button on a remote control.

Information about the range

- Dependent on the type of wireless transmitter you use, 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 accordingly.

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 / metallised insulating glass
- 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
- Proximity to badly shielded or uncovered computers in use or other electrical 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

Minimum load 5 W

Switching capacity max 300 W resistive load or
max. 100 W inductive load

→ Devices with mainly resistive load are, e.g. light bulbs.

Devices with inductive loads are, e.g. ballasts, conventional transformers, energy saving bulbs, 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) 41 x 41 x 13.5 mm

Weight approx. 23 g

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