

sygonix®

GB Operating instructions

RS2W wireless switch micro

Item no. 1761759

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.



The product is only intended to be installed and used in dry, indoor rooms; it must not get damp or wet.



Observe the operating instructions!

Delivery content

- RS2W wireless switch micro
- Operating instructions



Intended use

The wireless switch is intended for wireless switching on and off connected devices using suitable radio transmitter of the RS2W system.

The wireless switch may only be used on mains voltage (230 V/AC, 50 Hz). A maximum consumer load of 3500 W/15.2 A (resistive load) or 600 W/2.6 A (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.
- 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.
- Only use the product when it is securely installed and steady. Install the product, e.g. in a suitable flush or wall-mounted box or other suitable housing, so that the required protection against contact is ensured.
- Keep the product out of strong magnetic fields that occur near machines, electric motors or loudspeakers.

- Do not use this product in hospitals or medical institutions. Although RS2W radio system transmitters only emit relatively weak radio signals, these may lead to the malfunctioning of life-support systems. The same may also apply to other zones.
- Never touch or handle the product with damp or wet hands. There is a risk of a life-threatening electric shock!
- Only carry out the installation when all the mains cables to the wireless 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.
- Never connect the product to the power supply immediately after it has been transferred from a cold room into a warm one (e.g., during transport). Condensation water that forms might destroy the device. Moreover, there is danger of electric shock!

Allow the device to reach room temperature before switching it on. Wait until the condensation has evaporated. This might take several hours. Only after this should it be plugged in to the mains supply and put into use.

- Never overload the product. Observe the maximum connected load allowed in the "Technical Data" chapter.
- Do not use the product if it is damaged. There is a risk of a life-threatening electric shock! In this case, dispose of the product in an environmentally correct manner.
- If it can be assumed that safe operation is no longer possible, the device must be turned off and precautions must be taken to ensure that it is not used unintentionally. Do not touch the wireless switch or any device connected to it.

Disconnect the wireless 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.

- Use the product only in a temperate climate, never in a tropical climate.
- 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"!

- To use, install the wireless switch in a suitable flush or wall-mounted box or other suitable housing.
- The wireless switch must be disconnected from the power supply during installation. First, switch off all poles of the mains supply by switching off at the associated circuit breaker or removing the fuse and then also switch off the associated RCD (residual current device).
Secure it against unauthorised reconnection, e.g., with a danger sign. Check the mains connection for absence of voltage using a suitable tester.

Installation and connection



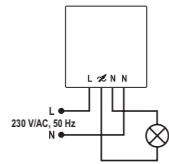
Refer to the "Preparations for installation" chapter.

The wireless switch is ideally suitable for switching a consumer load on/off wirelessly. The wireless switch can be used universally due to its particularly small size.



Ensure appropriate contact protection during connection, installation and subsequent operation of the wireless switch. Otherwise, there is a risk of a life-threatening electric shock!

- Connect the consumer load to the two middle screw terminals. The connection "N" is the neutral wire, the connection "L" is the connected output of phase/L.
- The outer two screw terminals are used for connecting to the mains voltage ("N" = Neutral wire, "L" = Phase).
- Install the wireless switch in the flush/wall-mounted box or the housing you are using such that the little control key and the LED point to the front/outside towards you.



→ The control key is required for teach-in to a radio transmitter of the RS2W radio system.

Take care during installation that there is enough free space around the control key, so it will not be switched on by accident.

- Now, switch on the mains voltage.

Function test: Turn the connected load on/off using the control key

Briefly press the control key on the wireless switch to turn the connected consumer load on/off.

An LED next to the control key shows the current switching state:

- LED is on: Consumer load switched on
- LED is off: Consumer load is switched off

Teach-in of the wireless switch to a radio transmitter

→ The wireless switch can be taught-in to each radio transmitter of the RS2W radio system.

Refer to the operating instructions for the radio transmitter to be used prior to the teach-in procedure.

Keep a minimum distance of 20 - 30 cm between the wireless switch and the radio transmitter during the teach-in procedure. Otherwise, it may happen that the registration process fails.

- If the wireless switch is turned on (LED next to the control key is on, the connected consumer load is enabled), then turn off the wireless switch first.

To do this, briefly press the control key; the LED next to the control key must go out as a result.

→ The wireless switch must be turned off (LED next to the control key is off); otherwise, the registration process cannot be performed.

- Start the teach-in procedure on the radio transmitter.

Example: On a 12-channel hand-held radio transmitter of the RS2W radio system, both of the "ON" and "OFF" keys should be held down simultaneously until the red LED of the hand-held radio transmitter flashes. Release the two keys; the red LED continues to flash and the registration mode is enabled.

- Hold down the control key on the wireless switch until the registration process on the radio transmitter is complete.

Example: On a 12-channel hand-held radio transmitter of the RS2W radio system, the LED lights up blue and then goes dark. Now release the control key of the wireless switch.

- The wireless switches on to indicate that the registration process is complete.

→ Up to 5 receivers can be taught-in to a switch channel of a radio transmitter of the RS2W radio system. This allows you to simultaneously turn on/off, e.g. up to 5 wireless switches by a single keystroke.

It is also possible to register the wireless switch on several radio transmitters.

However, do not register the dimmer supplied with the RS2W radio switching system and the wireless switch together on a single switching channel of a radio transmitter! Always register the wireless switch on a separate channel of the radio transmitter.

Deleting a taught-in wireless switch on a radio transmitter

The procedure corresponds exactly to the teach-in procedure of the wireless switch on the radio transmitter. For more information, see the operating instructions for the radio transmitter of the RS2W radio system to be used.

Switching on/off the load

The wireless switch and the load connected with it can be turned on/off wirelessly only when it has been registered on a radio transmitter of the RS2W radio system.

Refer to the above description and the operating instructions for the radio transmitter to be used.

Range

The transmission range of the radio signals between a radio transmitter of the RS2W radio system and the wireless switch is up to 150 m under optimum conditions.

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

In practice, however, there may be walls, room ceilings, 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 single family house.

Sometimes the range can be considerably reduced due to:

- Walls, reinforced concrete ceilings, drywalls with metal post and beam construction
- Coated/metallised insulated glass
- Proximity to metallic & conductive objects (e.g., heating elements)
- Proximity to human bodies

- Other devices using the same frequency (e.g. wireless headphones or loudspeakers)
- Proximity to electric motors/devices, transformers, power-supply units, computers

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

Power consumption approx. 0.7 W (off) or 1.4 W (on)

Power rating resistive load:

max. 3500 W (max. 15.2 A)

inductive load: max. 600 W (max. 2.6 A)

→ Devices 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 bulbs, etc.

Transmission/receiving

frequency 868.000 - 868.600 MHz

Transmission/receiving

range max. 150 m

Transmission power <14 dBm

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

Dimensions (W x H x D) 41 x 41 x 17 mm

Weight approx. 36 g

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