

sygonix®

GB Operating instructions RS2W Radio blind switch

Item no. 1761776

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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 Radio blind switch
- Operating instructions



Intended use

The product can be used to control a window blind motor wirelessly by radio. Each radio transmitter of the RS2W radio system can be used as a transmitter.

The radio blind switch may only be used on mains voltage (230 V/ AC, 50 Hz). A motor with an output of max. 500 W (~2.2 A) 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)!

- 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. Use the product e.g. - in a suitable flush-mounting or surface mounting or other suitable housing, so that the required protection against contact is ensured.

- Keep the product away from strong magnetic fields, such as in the vicinity of machinery, electric motors or speakers.

- Do not use this product in hospitals or medical institutions. Although the transmitter of the RS2W radio system emits only relatively weak radio signals, these may lead to malfunction of life-sustaining systems. The same may also apply to other areas.

- This product should never be touched or operated with wet hands. There is a risk of a life-threatening electric shock!

- The installation may be carried out only if the supply lines to the Radio blind switch are completely 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). The condensation 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 permissible connection load 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 radio blind switch or any device connected to it.

Disconnect the radio blind switch from the mains voltage by switching off the appropriate circuit breaker or by unscrewing 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"!

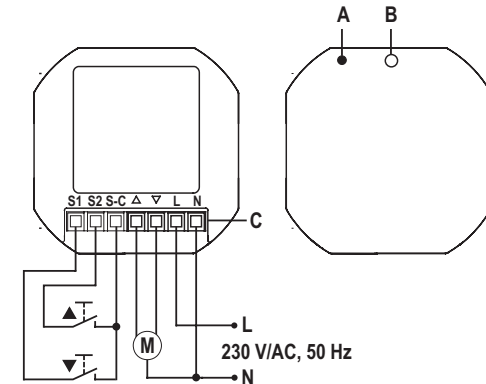
- Only one motor may be connected to the radio blind switch.
- The radio blind switch cannot detect the end position of the blind. Connect only a motor that can switch itself off when the end positions at the top and bottom of the blind are reached.
- The radio blind switch to operate must be installed in a proper flush-mounting or surface box or another suitable housing.
- The installation of the radio blind switch may only be performed when no voltage / current is applied. Turn off all poles of the electrical power supply by switching off the appropriate circuit breaker or by unscrewing the fuse and then turn off the associated residual current circuit breaker (FI circuit breaker).

Secure it against unauthorised reconnection, e.g., with a danger sign. Then check the power supply for absence of voltage using a suitable measuring instrument.

Connection and installation



Observe the chapter "Preparations for installation".



- A LED
- B Control buttons
- C Screw terminals
- ▲ External button for "Raise blinds"

▼ External button for “Lower blinds”

M Motor

L Phase of the power cable

N Neutral line of the power cable

The radio blind switch is ideal to be used to supplement a conventional blind switch with an additional radio operating function. This means that the existing button for “Raise/lower blind” is retained; however, the motor that was previously operated by it can now also be controlled with a radio remote control of the RS2W radio system.

For this purpose, the flush-mounted box needs sufficient space for installing the radio blind switch behind the existing blind button.



For connecting, installation and subsequent operation of the radio blind switch use an appropriate contact protection. Otherwise, there is a risk of a life-threatening electric shock!

Alternatively, the radio blind switch can be inserted in an additional flush-mounted box near the blind button.

→ However, you can also completely replace the blind button with the radio blind switch, so that the blind motor can still be operated only by radio. It is not necessary to connect a blind button to the connections “S1,” “S2” and “S-C”!

- Remove the cover of your existing blind button and remove the button from the wall socket.
- Carry out the electrical connection via the screw terminals (C); see the above diagram.

Connect the screw terminals “S1,” “S2” and “S-C” as shown in the figure above with the available blind button. The “S-C” screw terminal is the common connection of both buttons; the connection “S1” serves for the button function “▼” (downwards), the connection “S2” for the button function “▲” (upwards).

- Place the blind actuator in the flush-mounted socket in such a way that the control key and the LED point outward toward you. Ensure that the cables are not pinched or otherwise damaged.

If the blind switch still needs to be mounted in the same flush mounting box, wait until the programming of the radio blind switch has been carried out; see next chapter.

→ The control button is required to program the radio transmitter of the RS2W radio system.

When mounting make sure there is enough free space around the control button, so it will not be switched on by accident.

- Now, switch on the mains voltage.

Programming the radio-blind switch on a radio transmitter

→ The radio blind switch can be programmed to each radio transmitter of the RS2W radio system.

Before the programming procedure note the operating instructions for the radio transmitter used.

During the programming procedure keep a minimum distance of 20 - 30 cm between the radio blind switch and the radio transmitter. Otherwise, it may happen that the login process fails.

- Start the programming procedure on the radio transmitter.

Example: On the 12-channel radio remote control of the RS2W radio system are the two “ON” and “OFF” buttons of the desired switching channel (e.g. channel 1), press simultaneously until the red LED on the remote hand transmitter flashes. Release the two buttons, the red LED continues to flash, the login mode is activated.

- Hold down the control button on the radio blind switch until the login process on the radio transmitter is completed.

Example: On the 12-channel radio remote control of the RS2W radio system, the LED lights up blue and then goes out again. Now release the control button on the radio blind switch.

- The radio blind switch is activated briefly, the blind motor runs shortly in both directions and switches off again to indicate the end of the login process.

→ On a switch channel of a radio transmitter of the RS2W radio system up to 5 recipients can be tuned in. This allows you to for example activate simultaneously up to 5 radio blind switches with a button.

It is also possible to register the radio-blind switch at several radio transmitters.



The dimmer for the RS2W radio control system may not be registered together with a radio switch in a single switch channel! Always register these on a separate channel of the radio transmitter.

Delete of a previously tuned in radio-blind switches from a radio transmitter

The procedure corresponds exactly to that when tuning the radio blind switches on the radio transmitter. For more information see the operating instructions for the use of radio transmitters of the RS2W radio system.

Blind motor control

To move the blind up: Press the “▲” (up) button on a connected blind button or the “ON” or “I” button of the assigned switch channel of a transmitter briefly.

To move the blind down: Press the “▼” (down) button on a connected blind button or the “OFF” or “O” button of the assigned switch channel of a transmitter briefly.

To stop the blind: Briefly press whichever button indicates the opposite direction of the one the blind is moving in.

→ The maximum motor run time is approx. 90 seconds; after this, the motor switches off automatically.



The radio blind switch cannot detect the end position of the blind. This must be either contained in the motor or in a corresponding control.



If the blind in the radio control is in the wrong direction, you must exchange the motor cable on the radio blind switch (and possibly then also the cable of the available blind switch).

It is necessary to always turn off all poles of the mains, as already mentioned during the installation. Otherwise, there is a risk of a life-threatening electric shock!

Range

The transmission range of the radio signals between a radio transmitter of the RS2W radio system and the radio blind switch is up to 150 m under optimal 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 slabs, drywall walls with metal frame construction
- Coated/metallised insulated glass
- Proximity to metallic & conductive objects (e.g., heating elements)
- Proximity to human bodies
- Other devices on the same frequency (eg, radio headphones, wireless speakers)
- Proximity to electric motors / appliances, transformers, power supplies, 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

Connected load max. 500 W (~2.2 A)

Number of motors that can be connected 1

Transmission/receiving frequency 868.000 - 868.600 MHz

Transmission/receiving range max. 150 m (in open area)

Transmission power <14 dBm

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

Dimensions (W x H x D) 49 x 49 x 25 mm

Weight approx. 38 g

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