

sygonix®

GB Operating instructions

RSL wireless blind actuator

Item no. 1761739

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 blind actuator
- Operating instructions



Intended use

The product can be used to control a window blind motor wirelessly by radio. The transmitter can be any transmitter in the RSL wireless switching system.

The blind actuator may only be used on mains voltage (230 V/AC, 50 Hz). For information on the power input required, see the section "Technical Data".

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! There is a risk of a life-threatening electric shock!

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 mains voltage (see sections "Installation and Connection" and "Technical Data"). Never try to operate the product at another voltage as this will cause its destruction.

- Perform installation only when all mains supply cables are disconnected from the mains voltage. Otherwise, there is a risk of a life-threatening electric shock!

- The product may be installed and used only 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!

- An all-pole disconnection from the mains voltage (such as a surge protector) must be provided as part of the wiring set-up.

- Only use the product when it is securely installed and steady. Place the product e.g. into an appropriate flush-mounted socket.

- 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 blind actuator or any device connected to it.

Disconnect the blind actuator 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"!

- Only one motor may be connected to the blind actuator.
- The blind actuator 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 blind actuator may be mounted and operated only in a suitable flush-mounted socket. It may only be operated when it is securely mounted.
- The blind actuator must only be installed when the mains voltage is switched off. Turn off the mains supply by switching off 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 the mains connection for absence of voltage using a suitable tester.

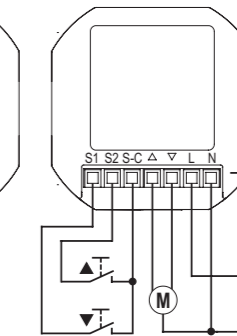
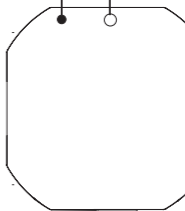
Installation and connection



Please refer to the section "Preparations for Installation".

A

B



A Control LED

B Control key

C Screw clamps

▲ External button for "Raise blind"

▼ External button for "Lower blind"

M Motor

L Phase of the mains cable

N Neutral line of the mains cable

The blind actuator can be used as a complementary component providing an additional wireless operation function for an existing blind button. This means that the existing button for "Raise/lower blind" remains intact; however, the motor that was previously operated by it can now also be controlled with a wireless remote operation of the RSL system.

For this purpose, the flush-mounted box needs sufficient space for installing the blind actuator behind the blind button. Alternatively, the blind actuator can be inserted in an additional flush-mounted box near the blind button.

However, you can also completely replace the blind button with the blind actuator, 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 clamps (C); see the above diagram.

Connect the screw clamps "S1," "S2" and "S-C" as shown in the figure above with a blind button, if present.

The "S-C" screw clamp is the common connection of both buttons; the connection "S1" serves for the button function "▼" (downwards), the connection "S2" for the button function "▲" (upwards).



If the electrical wires for the motor's direction control are accidentally reversed at this point, then the rotation direction can later be changed during the programming process.

- 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 button still needs to be mounted in the same socket, wait until the programming of the blind actuator has been carried out; see next chapter.

Assigning a transmitter

a) Assignment using the blind actuator

- Press the control key **(B)** on the blind actuator for longer than 2 seconds, until the control LED **(A)** flashes.

- Within 15 seconds, press the “On” button of a switch channel on a wireless wall transmitter or a remote control device (e.g. marked “ON” or “I”) for at least 3 seconds, until the motor connected to the blind actuator briefly runs in both directions and stops again. This indicates that the programming is correct.

Then the motor can be controlled with the “ON” and “OFF” buttons of the already programmed switch channel; see chapter “Moving the blind.” Briefly pressing the respective other button stops the blind motor.

- The programming/assigning mode will end automatically. If you wish to assign further wall transmitters or remote controls (a maximum of 10 are possible), then proceed again as described above.

→ You can also assign several switching channels to the same transmitter. With a 4-channel remote control, for example, Channel 1 can control the blind in the kitchen, Channel 2 the blind in the living room and Channel 3 can operate both blinds at the same time.

b) Assignment using an already assigned transmitter

- Press both buttons of an already assigned switch channel on a transmitter at the same time and hold for at least 3 seconds.

→ Make sure the two push buttons are for the same switching channel.

- The control LED **(A)** flashes (possibly not visible, since the blind actuator is installed in the flush-mounted socket).

- Now pick up the wall transmitter or the remote control that you want to reassign. Within 15 seconds, press and hold the “On” button of the switching channel there (e.g. labelled “ON” or “I”) for at least 3 seconds.

→ If you wait too long to report a new transmitter (longer than 15 seconds), the blind actuator leaves the learning mode automatically. In this case, start the learning mode again as described above.

The blind motor will move briefly in both directions and then stop. This indicates that the programming is correct.

- The programming/assigning mode will end automatically. If you wish to assign further wall transmitters or remote controls (a maximum of 10 are possible), then proceed again as described above.

→ You can also assign several switching channels to the same transmitter. With a 4-channel remote control, for example, Channel 1 can control the blind in the kitchen, Channel 2 the blind in the living room and Channel 3 can operate both blinds at the same time.

Deleting a single switch channel/transmitter

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

a) Deletion using the blind actuator

- Press the control key **(B)** and hold for longer than 2 seconds, until the control LED **(A)** flashes.
- Press the “ON” or “OFF” button of an already assigned switch channel on a wireless wall transmitter or a remote control device that you wish to delete until the control LED **(A)** light goes out.

The blind motor will move briefly in both directions and then stop. This indicates that the deletion has been carried out successfully.

b) Deletion using a transmitter

- Press both buttons of the already assigned switch channel of the transmitter that you wish to delete and hold for at least 3 seconds.

→ Make sure the two push buttons are for the same switching channel.

- The control LED **(A)** flashes (possibly not visible, since the blind actuator is installed in the flush-mounted socket).

- Press the “ON” or “OFF” button of an already assigned switch channel on a wireless wall transmitter or a remote control device that you wish to delete until the control LED **(A)** light goes out.

The blind motor will move briefly in both directions and then stop. This indicates that the deletion has been carried out successfully.

Deleting all assigned switch channels/transmitters

- Press the control key **(B)** and hold for longer than 2 seconds, until the control LED **(A)** flashes. Then release the button.
- Press the control key **(B)** and hold for longer than 2 seconds, until the control LED **(A)** goes out.

The blind motor will move briefly in both directions and then stop. This indicates that the deletion has been carried out successfully.

Then all assigned switch channels/wireless transmitters are deleted; the blind actuator does not react to any existing transmitter of the RSL system and must be reprogrammed.

Reversing the rotation direction

- Press the control key **(B)** briefly. The blind motor runs a short way in both directions and then stops.

- Now **shortly** press the “ON” or “OFF” button on an assigned switch channel/transmitter.

- The direction of rotation is now reversed (this applies for all assigned switch channels at once, as well as for a possibly connected blind button).

Moving the blind

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 blind actuator switches off automatically.

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

The rotation direction can be reversed; see the section “Reversing the rotation direction”.

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 when the transmitter and receiver are visible to each other, without disturbing 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 wireless transmission, no specific range can be guaranteed. However, trouble-free operation is usually possible in a single family 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

Electrical/ motor capacity..... up to max. 500 VA

Number of motors that can be connected 1

Receiving frequency 433.05 - 434.79 MHz

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

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

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