

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 set
- Battery 12 V/23 A
- Operating instructions

Intended use

The set contains a wireless wall mounted switch (inbuilt switch) and a wall-mounted radio transmitter. A consumer connected to the inbuilt switch can be turned on and off remotely via the wall-mounted radio transmitter (or via another radio remote switch in the RSL system).

The wireless inbuilt switch may only be used on the mains voltage (230 V/AC, 50 Hz). A maximum consumer load of 2300 W (Ohm resistive load) or 600 W (inductive load) can be connected and switched.

The wireless inbuilt switch is powered by a 12 V battery type "23 A".

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.



a) General

- 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 may only be installed by a qualified technician (e.g. 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 entrust a qualified electrician.

- 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-supporting systems. The same may possibly be the case in other areas.
- The wireless inbuilt switch may only be operated on the mains voltage (230 V/AC, 50 Hz). The wall-mounted radio transmitter may only be operated using a 12 V battery of type "23 A".
- Only carry out the installation when all the mains cables to the inbuilt wireless switch are disconnected from the mains voltage. Otherwise, there is a risk of a life-threatening electric shock!
- Never touch the wireless inbuilt switch 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. Install the wireless inbuilt switch, for example, in a suitable flush or wall mounted contact box. Install the wall-mounted radio transmitter, for example, on a wall or furniture surface.
- 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 inbuilt wireless switch or any connected device.
Disconnect the inbuilt wireless switch from the mains by switching off the appropriate circuit breaker or pulling out the fuse. Furthermore, turn off the earth leakage circuit breaker to disconnect all the poles of the mains supply.
Let an expert 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.

b) Batteries

- Correct polarity must be observed while inserting the battery.
- The battery should be removed from the device if it is not used for a long period of time to avoid damage through leaking. Leaking or damaged batteries might cause acid burns when in contact with skin, therefore use suitable protective gloves to handle corrupted batteries.
- Batteries must be kept out of reach of children. Do not leave batteries lying around, as there is risk, that children or pets swallow them.
- Batteries must not be dismantled, short-circuited or thrown into fire. Never recharge non-rechargeable batteries. There is a risk of explosion!

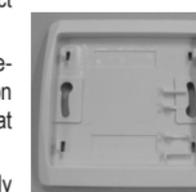
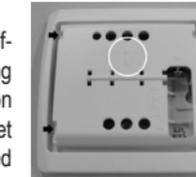
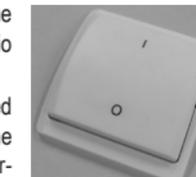
Installation and connection



Please refer to the section "Safety instructions"!

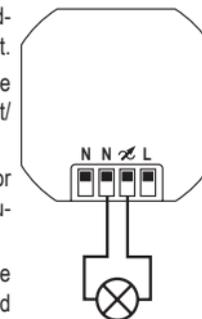
a) Wall-mounted radio transmitter

- Use a flat screwdriver to carefully lever the rocker switch on the wall-mounted radio transmitter and remove it.
- Remove the mounting plate, it is fastened by 4 clips to the electronic sections of the wall-mounted radio transmitter (see 4 arrows in the middle picture to the right).
- The mounting plate contains several different mounting holes for installation using screws, for example, in the wall or even on the surface or in a flush-mounted socket box. You can also secure the wall-mounted radio transmitter using double-sided duct tape.
Use suitable screws and wall plugs, depending on the surface. Pay attention when drilling and tightening the screws that no cable or pipes are damaged.
- Insert the electronic section, correctly orientated, into the mounting plate, until it locks in place. The arrow on the electronic section (see circle in the middle picture to the right) indicates the position "up" (rocker switch inscription "I").
- Insert a 12 V battery (Type "23 A"), with the correct polarity, into the battery compartment of the wall-mounted radio transmitter. An identical figure is located next to the battery compartment.
- Fit the rocker switch correctly. The inscription "I" on the rocker switch faces upwards, on the same side as the arrow on the electronic section, as indicated by a circle in the middle picture.



b) Wireless inbuilt switch

- Install the wireless switch in a suitable flush or wall mounted housing, contact box or similar.
- The wireless inbuilt switch must be disconnected from the mains supply during installation. Turn off the mains supply, before switching off the appropriate circuit breaker or pulling out the fuse. Secure it against an unauthorised re-start, 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.
- Connect the consumer load to the two middle screw terminals, see picture on the right.
The connection "N" is the neutral wire, the connection "⌘" is the connected output/phase/L.
- The outer two screw terminals are used for connecting to the mains voltage ("N" = Neutral wire, "L" = Phase).
- Using the two lateral mounting lugs, the wireless inbuilt switch can be firmly screwed in place (hole separation for the mounting lugs = 60 mm).
- The button on the rear of the housing is used to "programme the switch to a radio transmitter in the RSL switching system (e.g. the supplied wall-mounted radio transmitter).
Take care that there is enough free space around the pushbutton, so it will not be switched on by accident.



Therefore, please observe the following sections, before closing the flush mounted socket or surface box and putting the product into operation.

Operation

a) Programming the inbuilt wireless switch to function as a wireless transmitter

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

→ A total of 10 different wireless transmitters in the RSL System can be programmed. Thus, the inbuilt wireless switch can be turned on and off from different places.

Proceed as follows:

- Depress the button on the inbuilt wireless switch (for more than 3 seconds) until the LED next to the button starts flashing. The programming mode will be active for 15 seconds before it switches off automatically.
- When the programming mode is activated (the LED next to the button flashes), depress the "On" button on the inbuilt wireless switch (button "I") or the corresponding "ON" button on the remote control (for more than 3 seconds) until the LED is permanently lit and the unit connected to it is switched on.
The tuning process has been completed successfully. The programming mode will be exited automatically.
- If you wish to program further wireless transmitters, you have to reactivate the programming mode. Please proceed as described above.

→ The programming mode is activated automatically (LED flashes) when the voltage is switched on (e.g. when using for the first time). You now have approx. 15 seconds to program a wireless wall transmitter or a remote control, see above.

b) Deleting a programmed inbuilt wireless switch from a wireless transmitter

If you want to use the switching channel on a wireless transmitter (wall-mounted radio transmitter or remote control) for another inbuilt wireless switch, the switching channel can be released as follows:

- Depress both the "On" and "Off" buttons for the channel on your wireless transmitter you want to release for approx. 3 seconds.
 - Wall-mounted radio transmitter: Depress the "I" and "O" buttons simultaneously for more than 3 seconds.
 - Wireless remote control: Depress the "ON" and "OFF" buttons simultaneously for more than 3 seconds.
- The LED on the wireless inbuilt switch then starts flashing. The programming mode will be active for 15 seconds before it switches off automatically.
- Depress the "O" button on a wall-mounted radio transmitter, or the "OFF" button on a remote control for the current switching channel, for at least 3 seconds, until the LED of the wall mounted transmitter goes out. The consumer connected to the wireless inbuilt switch is switched off.
- The connection between the inbuilt wireless switch and the wireless transmitter is switched off, and the wireless inbuilt switch does not react to the respective wireless transmitter.

→ Please consult the user manual for the respective wireless transmitter for the RSL System (e.g. remote control).

c) Switching on/off using the wireless inbuilt switch

Briefly press the "I" button, to switch on the wireless inbuilt switch and the connected consumers. Briefly press the button "O", to switch off the consumer.

→ Important: When doing so, the rocker switch on the wireless inbuilt switch must be placed correctly. The printed "I" must face up, on the same side as the arrow in the housing (see section "Installation and Connection").

d) Switching on and off using the button on the inbuilt wireless switch

To test the functionality, the device connected to the inbuilt wireless switch can also be switched on and off using the button on the switch.

Press the button on the inbuilt wireless switch briefly, to switch the device on (the LED on the inbuilt wireless switch lights up) or to switch it off (LED goes out).

Function test

- If you haven't already programmed the wireless inbuilt switch, you have to program it to a radio transmitter in the RSL system (e.g. to a radio-controlled wall mounted switch or a wireless remote control).
- Make sure that the wireless inbuilt switch is supplied with power (230 V/AC, 50 Hz).
- Briefly press the "I" button on the wall-mounted radio transmitter, or the "ON" button for the switching channel on the remote control for which the inbuilt wireless switch was programmed.
The red LED on the inbuilt wireless switch lights up, the switch output is activated and the connected devices are switched on.

- To deactivate the switch output and switch off the connected devices, briefly press the "O" button on the wall-mounted radio transmitter, or the "OFF" button on a remote control, which was assigned to the inbuilt wireless switch.

The red LED on the wireless inbuilt switch goes out.

Range

- Dependent on the type of wireless transmitter you use, the range is up to 150 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 monitors 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

- Apart from the occasional battery change, the wall-mounted radio transmitter is maintenance-free. Never dismantle the wireless inbuilt switch. Repair or maintenance work must be carried out by a specialist.
- Clean the wall-mounted radio transmitter with a soft, clean, dry cloth.
- Never use aggressive cleaning agents or chemical solutions since these might damage the surface of the casing or impair the operation.

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

a) Product



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.

Remove any inserted batteries and dispose of them separately from the product.

b) Batteries



You as the end user are required by law (Battery Ordinance) to return all used batteries. Disposing of them in the household waste is prohibited.

Contaminated batteries are labelled with this symbol to indicate that disposal in the domestic waste is forbidden. The designations for the heavy metals involved are: Cd = Cadmium, Hg = Mercury, Pb = Lead (name on batteries, e.g. below the trash icon on the left).

Used batteries can be returned to collection points in your municipality, our stores or wherever batteries are sold.

You thus fulfil your statutory obligations and contribute to the protection of the environment.

Technical data

a) Wireless inbuilt switch

Operating voltage230 V/AC, 50 Hz

Switching capacity2300 W (resistive load)
600 W (inductive load)

→ 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.

Receiving frequency433.05 - 434.79 MHz

Receiving range.....max. 150 m

Ambient temperature.....0 to +35 °C

Dimensions (W x H x D)52 x 52 x 32 mm

Weightapprox. 43.5 g

b) Wall-mounted radio transmitter

Power supply12 V battery Type "23 A"

Transmission frequency.....433.05 - 434.79 MHz

Transmission rangemax. 150 m

Transmission power.....4.98 dBm

This is a publication by Conrad Electronic SE, Klaus-Conrad-Str. 1, D-92240 Hirschau (www.conrad.com).

All rights including translation reserved. Reproduction by any method, e.g. photocopy, microfilming, or the capture in electronic data processing systems require the prior written approval by the editor. Reprinting, also in part, is prohibited. This publication represent the technical status at the time of printing.

Copyright 2019 by Conrad Electronic SE. *1762769_V3_0719_02_mxs_m_en