



GB Operating instructions

Outdoor radio motion detector “RSL”

Item no. 1761750

Up-to-date Operating Instructions

Download the latest operating instructions at www.conrad.com/downloads or scan the QR code shown. Follow the instructions on the website.



Explanation of Symbols



The symbol with the lightning in the triangle is used if there is a risk to your health, e.g. due to an electric shock.



The symbol with the exclamation mark in the triangle is used to indicate important information in these operating instructions. Always read this information carefully.



The arrow symbol indicates special information and advice on operation.



This product must only be used in dry, enclosed indoor areas. It must not become damp or wet, as this may result in a fatal electric shock!

Delivery Content

- Outdoor radio motion detector with wall bracket
- Operating Instructions

Intended Use

With the outdoor radio motion detector an appropriate wireless remote-control switch of the RSL system (or a load attached to it) can be switched on or off wirelessly.

The motion detector responds to temperature changes within the detection range, e.g. if a person, an animal or a car enters the detection area.

Because of this, the motion detector is used for monitoring of entrances, stairs etc.

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 result in short circuits, fires, electric shocks or other hazards. Read the instructions carefully and store them in a safe place. 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 Information

- 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, steam 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.
- Do not use this product in hospitals or medical institutions. Although the transmitter in the radio remote control emits only relatively weak radio signals, these may lead to malfunction of life-support systems. The same may be the case in other areas.

- The product may be installed and used outdoors and indoors.
- Do not use this product in rooms or under adverse ambient conditions where combustible gases, vapours or dust are or may be present! There is a risk of explosion!
- The product must not be exposed to extreme temperatures, strong vibrations or heavy mechanical stress.
- 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 product.
- Maintenance, modifications and repairs must only be completed by a technician or an authorised repair centre.
- If you have questions which remain unanswered by these operating instructions, contact our technical support service or other technical personnel.

b) Connected devices

Also observe the safety and operating instructions of any other devices which are connected to the product.

c) Batteries

- Correct polarity must be observed while inserting the battery.
- The batteries 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.

- All batteries should be replaced at the same time. Mixing old and new batteries in the device can lead to battery leakage and device damage.
- Batteries must not be dismantled, short-circuited or thrown into fire. Never recharge nonrechargeable batteries. There is a risk of explosion!

Preparations for Installation



Please refer to the “Safety Information” section!

- Keep a minimum distance of at least 1 m to lights, radiators and other heat sources in order to avoid functional problems or faulty switching.
- Only install the motion detector on a stable surface.
- The motion detector can be mounted on a wall in indoor and outdoor areas. Pay attention to the correct mounting position. The side that is shaped like a cover must always face upwards, otherwise water might enter the product.

Function of the motion detector

The motion detector responds to temperature changes within the detection range, e.g. if a person, an animal or a car with a different temperature to the detection area enters the detection area.

To ensure optimal motion detection, the motion detector must be placed so that the object to be detected does not approach the motion detector directly but passes from left to right or vice versa. Mind this, when installing the product.

The transmission range for the detection of a motion is determined by several factors:

- Mounting height of the motion detector
- Temperature difference between the moving object and the background (environment)
- Size of the object
- Distance of the object from the motion detector
- Direction and speed of the movement
- Ambient temperature

Installation

The wall bracket can be fastened to the wall using 2 screws. Use, depending on the mounting location, appropriate screws and if necessary dowels.

Pay attention when drilling and tightening the screws that no cable or pipes are damaged.

The motion detector is slid from above onto the wall bracket. By means of the wall bracket's flexible head the motion detector can be aligned to the required detection range.



Getting Started

- Open the motion detector by unscrewing the four screws on the back of the device.

- When the battery compartment is at the top, you will find the sliding switch for the channel selection on the left. Thereby please note that you move the sliding switch to the "LEARNING" position.

→ The other three switch positions "IV-1", "IV-2" and "IV-3" are intended for an other radio switching system by the manufacturer and must not be used for the RSL system.

- With the lower sliding switch you can adjust how long the load shall be switched on when the motion detector is triggered.

You can set a time period of 5 minutes, 1 minute, 15 seconds and 6 seconds.

→ Example: You have mounted the motion detector at the entrance area of a house (time is set to 15 seconds) and then programmed a radio-controlled socket in the RSL system.

If the motion detector detects a temperature change within the detection area (e.g. a person enters the entrance area), the radio-controlled socket and a connected load will be turned on for 15 seconds.

If the motion detector detects a new temperature change within these 15 seconds, the time period starts again.

- With the right sliding switch "H....L" you can set four levels and thus the brightness at which the motion detector will be activated.

Move the switch in direction "H": Motion detector will also be activated during the day

Move the switch in direction "L": The motion detector is only active at night

- Insert two AAA/micro batteries, with correct polarity (observe positive/+ and negative/-), into the battery compartment.

→ In general, it is possible to operate the product with rechargeable batteries. However, due to the lower voltage (batteries = 1.5 V, rechargeable batteries = 1.2 V) and the lower capacity, the operating period is reduced resulting in frequent replacement of the rechargeable batteries. Furthermore, rechargeable batteries are less efficient at lower outdoor temperatures.

Therefore, we recommend that you use high-quality alkaline batteries in order to allow for long-lasting and reliable operation.

- Before closing and retightening the case of the motion detector, one (or several) radio receivers of the RSL system must be programmed to the motion detector. Observe the following steps.

- After completion of the programming process the motion detector must be closed again. Place the housing's rear side (only one orientation is correct) and firmly screw the 4 screws.

Afterwards, the motion detector must be attached from above to the wall bracket and aligned to the required detection area.

Operation

a) Programming a radio receiver of the RSL system

A maximum of 10 radio receivers in the RSL radio system can be programmed to the outdoor radio detector.

- Shift the radio receiver (e.g. a wireless incorporated switch, a radio-controlled socket or the like) to programming mode. Please refer to the operating manual of the radio receiver (usually press the button on the wireless receiver for more than 3 seconds, until a LED begins to flash on the radio receiver).

- Press the "Learning" button on the outdoor radio motion detector (at least 3 seconds) until the LED in the radio receiver stops blinking and instead, lights permanently. The load connected to the radio receiver is switched on.

b) Deleting a programmed receiver

- Shift the radio receiver (e.g. a wireless incorporated switch, a radio-controlled socket, etc.) to the programming mode. Please refer to the operating manual of the radio receiver (usually press the button on the wireless receiver for more than 3 seconds, until a LED begins to flash on the radio receiver).

- Press the "Learning" button on the outdoor radio detector (at least 3 seconds), until the LED on the radio receiver stops blinking and instead, goes out. The load connected to the radio receiver is switched off.

Function test

- If it has not been done, you must first programme a radio receiver (e.g. a wireless incorporated switch or a radio-controlled socket) in the RSL system of the outdoor radio motion detector.

- Make sure that the radio receiver is ready-to-operate.

- Pass through the detection area of the outdoor radio motion detector. If you have moved the sliding switch "H....L" in direction "L", a function test is only possible at dusk or at night.

- The radio receiver programmed to the outdoor radio motion detector, now must be activated for the preset time.

Information about the range

The transmitter in the outdoor radio motion detector has a range of up to 30 m.

→ However, this range is the so-called "free-field range" (range with line of direct sight between the transmitter and receiver and without interference).

In practical operation, however, there are walls, the ceilings of rooms etc. between the transmitter and the receiver which reduce the range correspondingly.

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/metal vapour deposition coated 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
- The proximity to improperly shielded or uncovered operating computers or other electric appliances

Care and Cleaning

Apart from the occasional battery change the product is maintenance-free for you. Repair or maintenance work must be carried out by a specialist.

Clean the product with a soft, clean, dry cloth.

Never use aggressive cleaning agents or chemical solutions because 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 in accordance with applicable regulatory guidelines.

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 labeled 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 fulfill your statutory obligations and contribute to the protection of the environment.

Technical Data

Power supply 2x batteries of type AAA/Micro

Transmission frequency 433.05 – 434.79 MHz

Transmission power < 10 dBm

Transmission distance max. 30 m (see chapter "Information about the range")

Adjustable activation time 5 minutes, 1 minute, 15 seconds, 6 seconds

IP protection class IP54

Viewing angle Horizontal approx. 140°, vertical approx. 90°

PIR range up to 8 m

Operating temperature range ... -10 to +55°C

Dimensions 60 x 80.5 x 68.8 mm

Weight 119 g

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