» SRW03 | SRW03 Dual BAT

Wireless window contact

thermokon®
HOME OF SENSOR TECHNOLOGY

Datasheet

Subject to technical alteration
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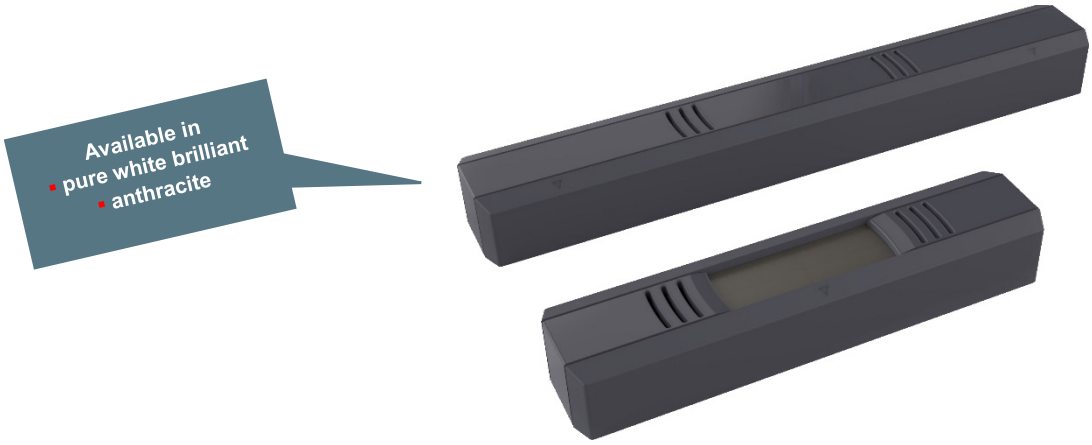


enocean®

» APPLICATION

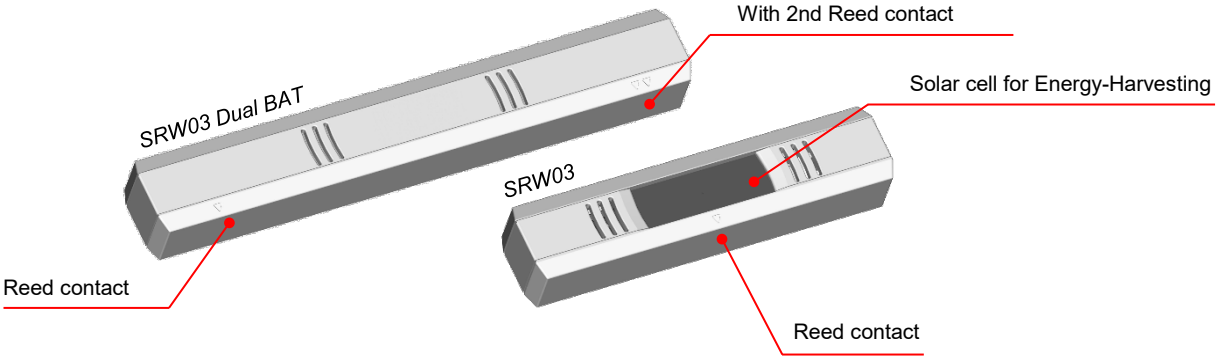
Battery-free wireless window contact for condition monitoring of windows and doors. Reduces energy consumption through demand-based heating or cooling. With a 2nd reed contact, the states of a double casement window can be recorded with one device.

» TYPES AVAILABLE

EasySens Door/Window Contact – 1 Contact | 2 Contacts

SRW03 (1 Reed contact)
SRW03 Dual BAT (2 Reed contacts, battery operated)

All variants available in white, anthracite (varnished)



»SECURITY ADVICE – CAUTION

The installation and assembly of the device should only be performed by authorized personnel.

The product should only be used for the intended application. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Please comply with

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

»NOTES ON DISPOSAL

As a component of a large-scale fixed installation, Thermokon products are intended to be used permanently as part of a building or a structure at a pre-defined and dedicated location, hence the Waste Electrical and Electronic Act (WEEE) is not applicable. However, most of the products may contain valuable materials that should be recycled and not disposed of as domestic waste. Please note the relevant regulations for local disposal.

»GUIDELINES FOR DEVICES WITH SOLAR ENERGY STORAGE

Due to the energy-optimized EnOcean radio technology used in ”EasySens®“ wireless sensors, the devices can work without batteries and self-charge themselves using electric energy generated by integrated solar cells. This makes the devices almost maintenance free and environmentally sound due to not having to replace batteries.

For optimum use, the device should be mounted in a location with sufficient ambient brightness. Minimum illumination of 200 lx (artificial light or ambient) is required for at least 3 to 4 hours each day. (The health and safety regulations at work require a minimum illumination of 500 lx for office workplaces).

The solar cell should be mounted facing towards the window direction if possible. If the device has a temperature sensor, then even periodic direct sun radiation should be avoided due to incorrect false temperature readings.

The mounting position should be selected so that the device will not be obstructed in the future: for example by placement areas, additional furniture or roll-fronted cupboards.

The sensor is supplied in an operational state. If the sensor has been stored in darkness for longer periods, the internal solar energy storage will most likely need to be recharged. This would normally happen automatically during commissioning or during initial start up in ambient light. If the initial charge is not sufficient, the sensor will reach its full operating state up to 3 to 4 days, if the requirements for minimum illumination per day are met. The sensor will then transmit continuously in darkness as specified f (2/3 days on factory default telegram timing). Depending on the application it is also possible for the devices to operate in darker rooms (with brightness <100 lx) by using the battery back-up option. Batteries to be used are listed in accessories.

The operating time when using batteries will depend on the transmission frequency as well as the component aging and the self-discharge of the battery. Standard operating time will be 5-10 years on factory default telegram timing. Changing of the device from solar to battery operation is done automatically by simply adding a battery to the device.

»INFORMATION ABOUT EASYSENS® (RADIO) / AIRCONFIG GENERAL USAGE

EasySens® - airConfig

Basic information about EasySens® radio and about general usage of our airConfig software, please download from our website.

»OVERVIEW OF THE RADIO TELEGRAMS

EEP

The structure of the data contained in the telegram can be found in the EEP (EnOcean equipment profile) list provided by the EnOcean Alliance.

»PRODUCT TESTING AND CERTIFICATION

Declaration of conformity

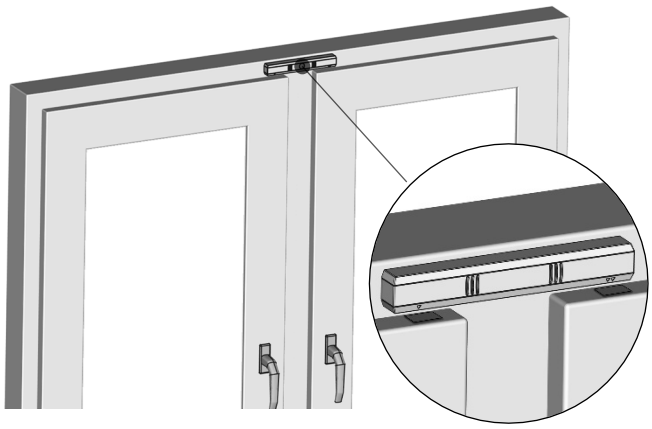
The declaration of conformity of the products can be found on our website https://www.thermokon.de/.

» TECHNISCHE DATA

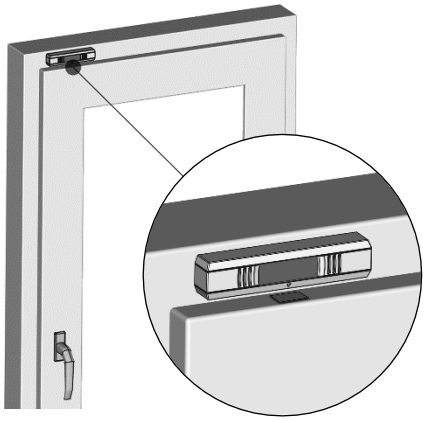
Radio technology	EnOcean (IEC 14543-3-10), transmission power <10 mW EEP D5-00-01	
Frequency	868 MHz, optional:, 902 MHz	
Antenna	internal transmitting/receiving antenna	
Power supply	**SRW03** solar cell, internal super cap, maintenance-free	**SRW03 Dual BAT** battery operated, 1x Alkali-Mangan AAA (iincluded in delivery) or 1x Lithium 3,6V ER10450
Sending interval	at status change, otherwise every 1000 sec.	
Sensor *(type-dependent)*	1 reed contact + magnet | 2 reed contacts+ magnet	
Enclosure	PC/ABS, pure white or anthracite (optional)	
Protection	IP40 according to DIN EN 60529	
Ambient condition	-20..+60 °C, max. 85% rH non-condensing	
Mounting	to be mounted flat onto the surface using adhesive foil (included) or screws	

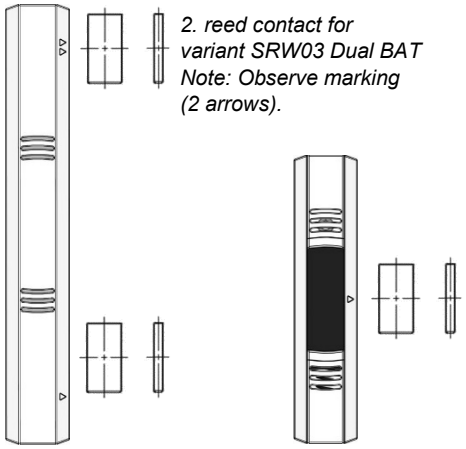
» MONTAGE UND INSTALLATION

Installation example SRW03 Dual BAT (2 reed contacts)



Installation example SRW03





2. reed contact for variant SRW03 Dual BAT Note: Observe marking (2 arrows).

SRW03 Dual BAT

The window contact SRW03 Dual BAT is permanently supplied by an inserted Micro-AAA cell. Insert the battery correctly into the battery holder as indicated.

If only a single window casement is monitored with a dual window contact, both reed contacts must be mounted or the remaining reed contact must be covered with the magnet (permanently switched/closed).

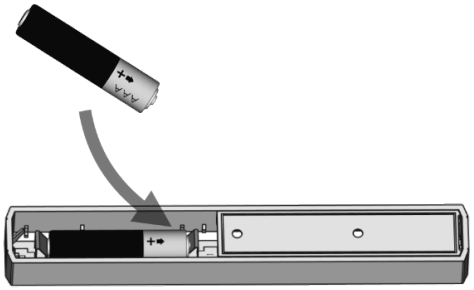
Installation is performed optionally with the adhesive foil included in the scope of delivery or by using screws with the lower part of the housing.

The reed contact unit and the magnet can be easily mounted on windows or door frames made of aluminum, plastic or wood using the adhesive pads supplied. The mounting position of the reed contact unit is horizontal, vertical or even inclined.

Magnet

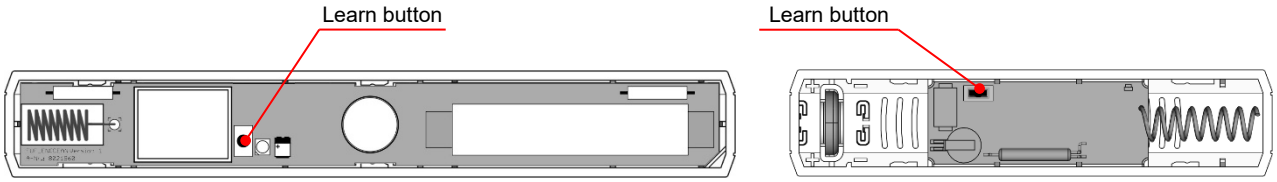
The magnet can easily be mounted on a smooth surface with the self-adhesive tape provided. The magnet must be positioned so that it faces the housing near (max. 4mm) the reed contact mark.

» INSTALLAING THE BATTERY (SRW03 DUAL BAT)



» TEACH-IN

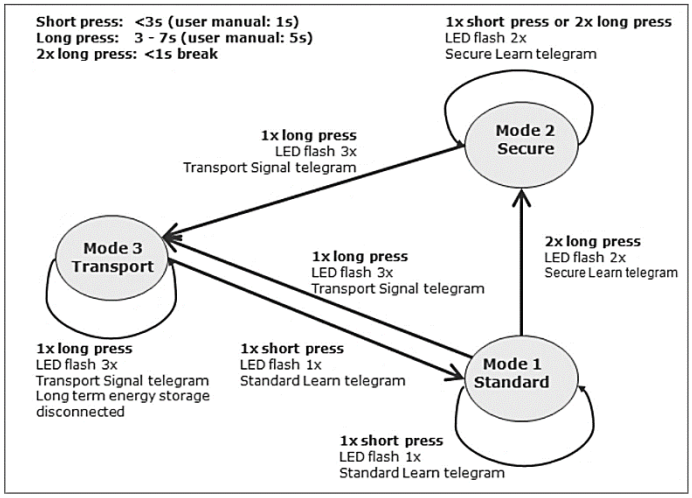
By default, a 1BS teach-in telegram is transmitted by pressing the LRN key. Press the key on the back to trigger a teach-in telegram.



By pressing the LRN button, the module sends a teach-in telegram to a suitable receiver. The teach-in telegram identifies the device manufacturer, the function and the type of the device.

» OPERATION MODES SRW03

Operating mode switch-over only for version with solar cell (not SRW03 Dual BAT)



» **Change Transport Mode -> Standard Mode**

After pressing the learn button *(for 1s)*,
the radio module switches to standard mode *(mode 1)*.
The LED flashes once and a standard learning telegram is transmitted.

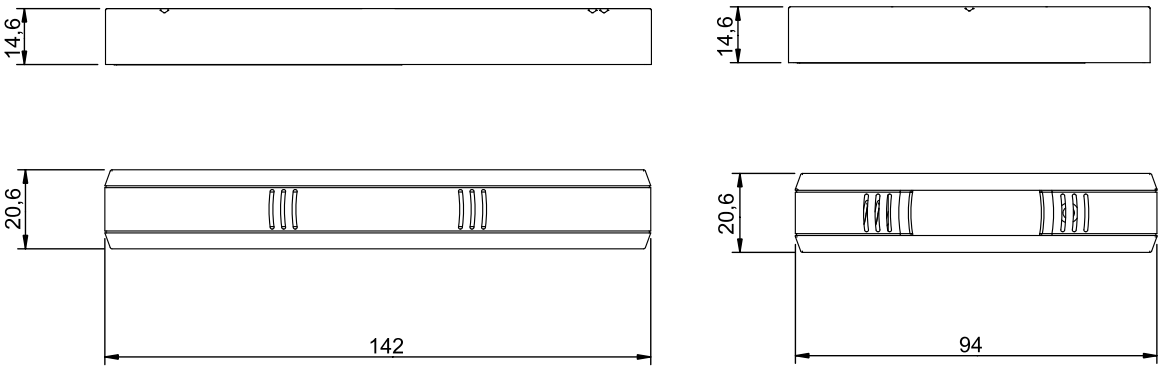
» **Change Standard Mode -> Secure Mode**

After 2x long pressing of the learn button
(press 5s, pause <1s, press 5s)
the radio module switches to Secure Mode *(mode 2)*.
The LED flashes twice and a safe learning telegram is sent.

» **Change Secure Mode or Standard Mode -> Transport Mode**

After pressing the learn button *(1x 5s)*,
the radio module switches to transport mode *(mode 3)*.
The LED flashes 3 times and a signal learning telegram is sent.

» DIMENSIONS (MM)



» ACCESSORIES (OPTIONAL)

Coin cell CR1225	Item No. 727310
Battery 1,5V AAA (Micro)	Item No. 739351