

Installation guide

Door/Window sensor.



Read carefully the instruction given, before installing and using the Door / Window sensor and hold it for future references.



GENERAL WARNINGS AND INSTRUCTION GUIDE:

In order to ensure the correct operation of the product in your installation is necessary to carry the following safety regulations out:

1. The installation and the use of the product must be done according to the technical operating conditions explained below.
2. The good use of the application is client's responsibility.
3. After reception of the goods, check the packaging and the existing material in case there is any damage. Check as well, that the reception is complete (accessories, papers, etc).
4. If packaging is damaged during delivery or it is suspicious of being damaged or having a failure, do not put the unit on. In that case please contact us.
5. The installation and handling of our product has to be done by authorized personnel. Mainly the electrical connections must be done only by qualified experts.
6. Do not try to repair any material after a failure or damage and put it working again. In this case it is highly important to contact us.
7. There will not be accepted any responsibility for damages caused by a wrong use.
8. Ensure that the battery cover is closed and blocked-up before using the equipment.

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1. INTRODUCTION

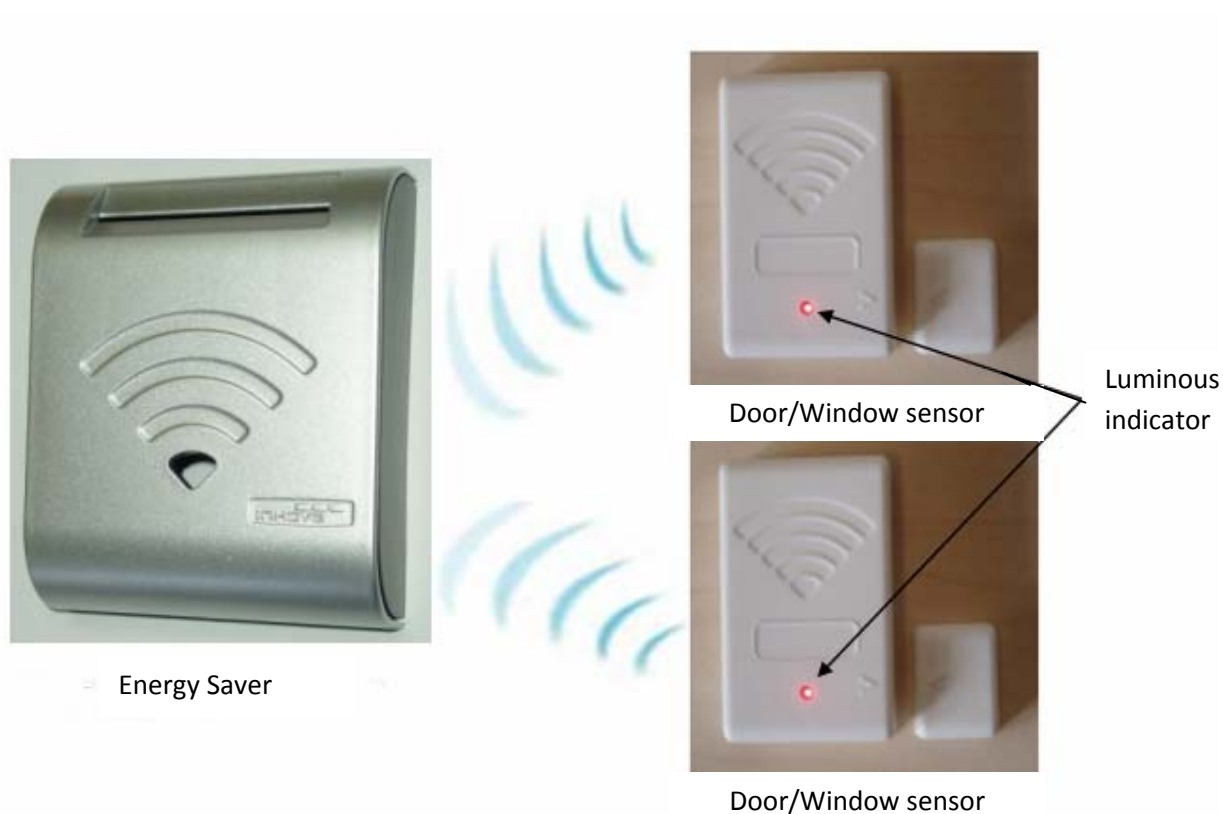
1.1 Brief description

The sensor consists of:

1- Detector (Big box).

2- Magnet (Little box).

For the proper operation of the door- window sensor, an energy saver is needed, as it turns the relay 2 off when the sensor communicates that the window is opened.



The product is designed to hang on doors or windows, so that the detector lays on the doorframe and the magnet on the door or Windows. When the door or window is opened, the magnet will be released from the detector and it will send a message to the energy saver to turn the air conditioning off.

The detector works with a (CR2032) type watch battery, which has autonomy of approximately 2 years.

As long as the battery level is correct, there will be no blinking, otherwise if battery is low, it will blink twice continuously. In that case, battery must be replaced the battery as soon as possible.

1.2 Shipment content

- DOOR/ WINDOW SENSOR (Detector box + magnet box)
- Screw box or 2 stickers (4 screws).
- Starting up and user guide.
- Synchronizing card for the energy saver (if appropriate depending on the model).

2. INSTALLATION



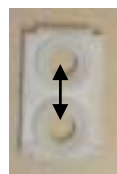
IMPORTANT! Please keep in mind that the Door / Windows sensor is designed for indoors.

2.1 Dimensions.

The size and location of the anchor points of each part are shown in the image below. The measures shown are from the midpoint of the holes to the other point through the holes.



36,77mm



7.92mm

2.2 Installation steps

First of all, it should be decided in which door or window must be installed, it is highly recommended to install it on door and windows with no looseness. The detector and the magnet should be as closed as possible, because the maximum distance between both parts is 0,8cm. If that distance is exceeding in any direction, it is probable that it no longer works.

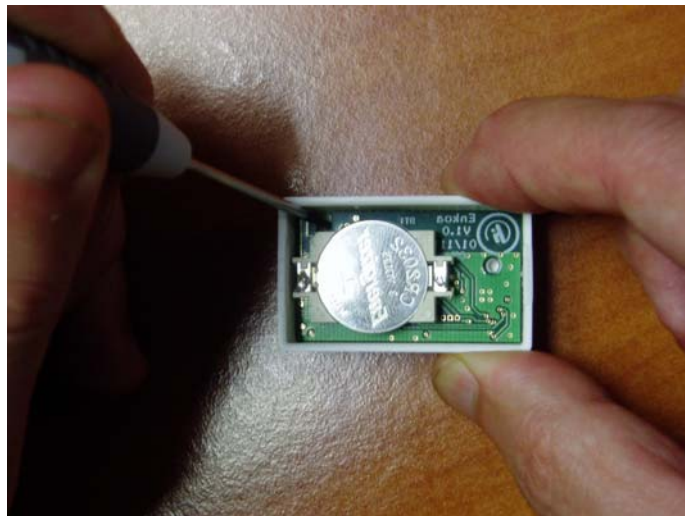
The DOOR/WINDOW sensor installation must be done following these steps in order:

1. Stick or screw the detector's base on the door or Windows frame.



2. Synchronize the sensor and the iswitch (energy saver).

Introduce the Sensor **synchronizing card** in the energy saver, the energy saver will be synchronizing till the card is removed. While the card is in the energy saver, press once the inner button using a screwdriver. The red pilot will go on.

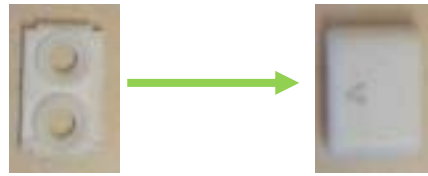


Then the sensor and the energy saver will try to synchronize. The synchronizing will be successful when the sensor blinks quickly red for approximately 5 seconds. Finally the red pilot must go off.

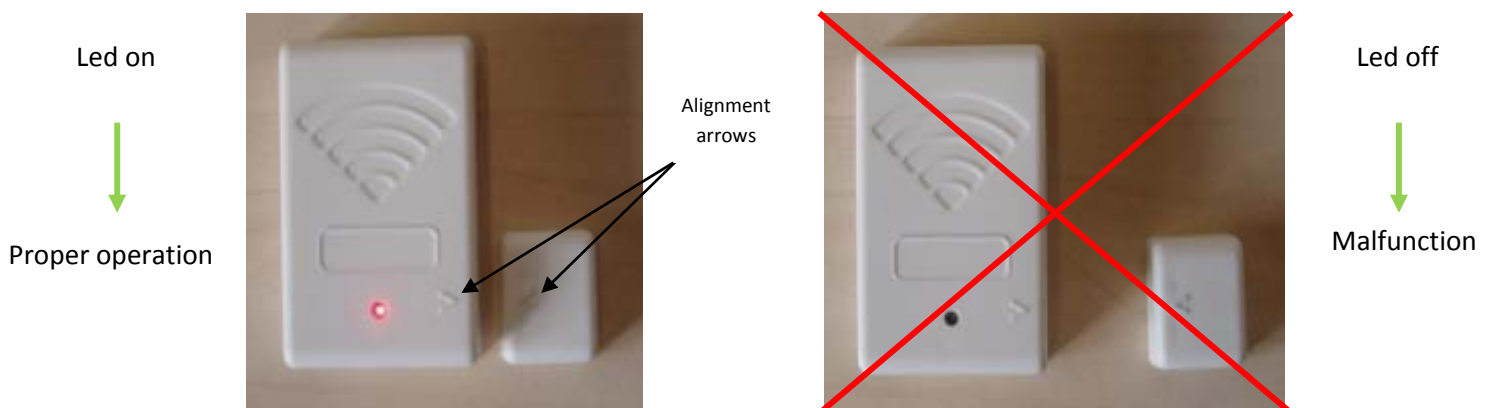
Repeat it with all the sensors of the same room that must be synchronized with the same energy saver.

In case there more than one synchronizing card, it is highly important not to use both of them together, because the sensors can be synchronized with other room.

3. Do stick or screw the magnet's base at the indicated point and introduce the cap on the base.



4. Once the sensor is synchronized correctly, we will install the sensor in the window or door in the right way, to do so we will remove the battery, wait 3 seconds and put again.
5. After placing the battery again, we will ensure that the sensor LED does some blinking.
6. After those blinking, we will have 40 seconds to install the detector on the base, on a way that arrow pictures that have both caps match.
(It is highly important that the cap's arrows match)



7. Finally, to ensure that the sensor is working properly after installing it, we must look to the red LED is ON during those 40 seconds. Once those 40 seconds go by the LED will blink continuously showing thereby that is no longer in that state and will be in sensor mode ready to work.

In case both parts have been installed and the led sensor is not ON, the sensor won't be correctly installed.

 **IMPORTANT!**

In case the battery is not introduced in the battery holder. We should introduce it and soon afterwards the led diode will make some initial blinking for about 10 seconds.

Once those blinking are made the sensor will be in TEST way, as a consequence we should wait 30 or 40 seconds before the led diode make some swift blinking for 6 seconds showing that there is no longer in TEST way.

Once it is no longer in TEST way, we will proceed to the synchronizing as explained before.

Note (Desynchronization of sensors)

The sensor desynchronization with an iSWTCH energy saver is done by introducing a **sensor deleting card** in the energy saver. The energy saver deletes the list of all sensors that are synchronized.

The desynchronization will be necessary in the following cases:

- When one of the room sensors must be deleted.
- When a sensor is damaged and it is replaced by a new one.

After the desynchronization, it is always necessary to synchronize the room sensor with the new energy saver.

The desynchronizing will NOT be necessary in the following cases:

- When sensor battery is replaced.
- When a new sensor is added in a room.

3. SENSOR CONFIGURATION

The configuration must be done only in exceptional occasions.

The Door/ Window sensor has two operating ways, one as Windows sensor and the other one as Door sensor, depending on which application it is used, it must be configured one way or another.

The sensor will be configured by default as Windows sensor.

3.1 Window sensor operating way

The sensor will be configured by default as Windows sensor as it is the most common option. The synchronization will be done as explained previously.

3.2 Door sensor operating way.

In order to configure it as door sensor:

- The button must be pushed during 10 seconds. While the button is pushed, the led diode will be on.
- When the led diode turns off and make some slow blinking for 10 seconds, it will go to door way.

In order to go back to window operation way the button must keep pushed for 10 seconds and in that occasion the led diode will make some swift blinking for 5 seconds.

3.3 How to get to know about the sensor configuration

In case we are unaware of the sensor configuration way, we can get to know by the following way:

- 1) The battery will be removed from the sensor.
- 2) We should wait 5 seconds and we will introduce them back.
- 3) If the battery is introduced and the led is on for 6 seconds and then blinks Swift, the sensor will be on door operation way.
- 4) Whereas the battery is introduced and the led Diode blinks Swift, the sensor will be in windows operation way.

4. OPERATION

The DOOR/ WINDOW sensor has a wireless Communication with the lswitch energy saver.

The different operating ways are the following:

4.1 Saving way

The DOOR / WINDOW Sensor detects any opening or locking of the DOOR/ WINDOW sensor and sends energy saver status, till there is no opening detected the energy saver will not cut the air conditioning.

5. AIR CONDITIONING TEMPORIZED SWITCHING OFF

The switching off of the relay 2 when the window is opened will be configurable from 0 to 250 seconds in multiples of 5 seconds.

For instance if energy saver's relay 2 is temporized with 30 seconds and the window is opened after 30 seconds, the energy saver's relay 2 will turned off.

In order to configure that switching off, the door-window sensor time detector card will be introduced.

After introducing that card in the energy saver, we will pay attention that energy saver's light indicator makes some blinking.

Afterwards, we will check that the defined time for the switching off is correct.

6. CLEANING AND MAINTENANCE

For the long lasting of the device, please follow the following instructions:

- Replace the battery from time to time every two years or when the sensor asks for that by 3 red blinking.

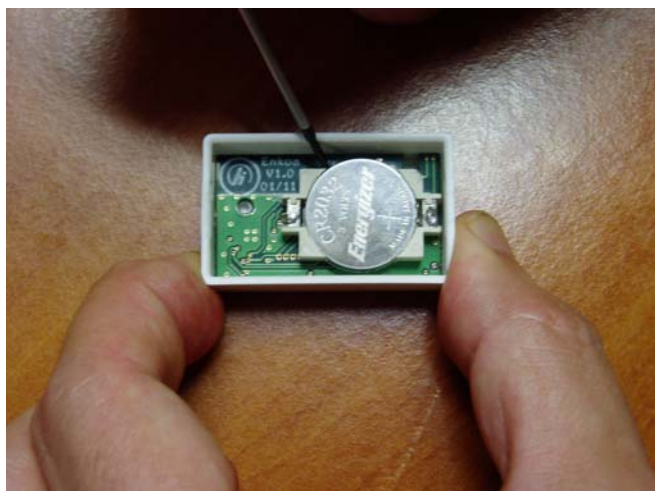
6.1 Battery replacement

When batteries are about to run out the sensors warns the user, in order to be replaced.

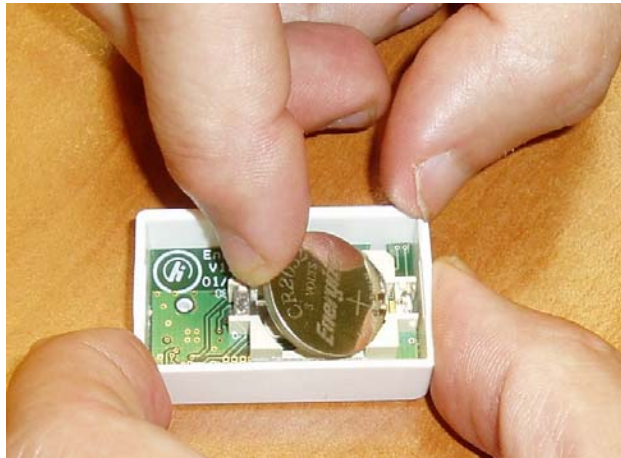
The detector blinks **3 times red every 8 seconds showing low battery.**

For replacing the battery the following steps must be followed:

- Let loose the detector's cap using the hand, if it is not possible, introduce a screwdriver between the base and the cap.
- Once you have the detector's cap at your hands replace the lithium CR2032 battery, replace it always with batteries from the same manufacturer.



CAUTION: make sure you are introducing a battery with the appropriate polarity.



- Once replaced the battery, put the detector cap on over the base and ensure that it's been correctly installed.

7. TIPS FOR PROTECTING THE ENVIRONMENT



Batteries may be damaging if they are not disposed appropriately. Protect the environment by throwing the worn out batteries in an authorized collection point.

For a long lasting of the batteries, when the battery is low, replace all the batteries.

8. TECHNICAL DATA

DESCRIPTION	Door / Window sensor for the energy saver
REFERENCE	SPVxIxS
POWER SUPPLY	3V CR2032 lithium battery
AUTONOMY	2 years (7,5µa average consumption, 20mA at most)
COMMUNICATIONS	2,45 GHz wireless , IEEE 802.15.4
COMMUNICATION COVERAGE	30m (max. distance to the energy saver)
INTERFACE	Red led

MATERIAL	"Fireproof material according to norm UL 94 V-0"
TEMPERATURE RANGE	-10° to 50°
TECHNOLOGY	Magneto resistive sensor + magnet
MAX. DISTANCE BETWEEN THE SENSOR - MAGNET	Recommendable to have a slight separation. Max separation 0,8 cm.
DIMENSIONS (DETECTOR ,MAGNET)	Detector(44,21mmx27mm) Magnet(18,30mmx13,34mm)
WEIGHT	14g