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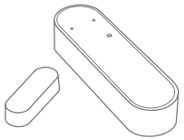
Alarm Entry Sensor 2



INSTALLATION MANUAL

WISZB-138

Product description

The Alarm Entry Sensor 2 detects and reports opening and closing of doors and windows as well as temperature.

Easily installed on any door or window, the sensor triggers a signal when parted. This lets you know when a room is entered, if a window or a door has been left open, etc. The sensor is tamper protected. The sensor is alarm-certified.

Disclaimers

CAUTION:

- Choking hazard! Keep away from children. Contains small parts.
- Please follow the guidelines thoroughly. The Alarm Entry Sensor 2 is a preventive, informing device, not a guarantee or insurance that sufficient warning or protection will be provided, or that no property damage, theft, injury, or any similar situation will take place. frient cannot be held responsible in case any of the above-mentioned situations occur.

Precautions

- When removing the cover for battery change - electrostatic discharge can harm electronic components inside.
- Always mount indoors as the sensor is not waterproof.
- Do not place the sensor close to magnetic or electromagnetic fields. This device includes a magnet. The magnet creates a magnetic field that may cause damage to computer hard drives, magnetic cards, data storage devices, hearing aids and speakers, etc. Therefore, we strongly advise you to never position the magnet close to electronic devices.

Getting started

1. Open the casing of the device with a screwdriver to remove the front panel from the back cover.

a.

2. Insert the enclosed batteries into the device, respecting the polarities
3. The entry sensor will now start searching (up to 15 minutes) for a Zigbee network to join.
4. Make sure that the Zigbee network is open for joining devices and will accept the entry sensor.
5. While the entry sensor is searching for a Zigbee network to join, the yellow LED is flashing.

b.

6. When the yellow LED stops flashing, the entry sensor has successfully joined the Zigbee network.

Placement

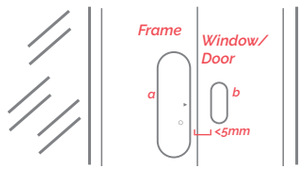
- Place the sensor indoors at a temperature between 0-50°C.
- Place the sensor inside the premises supervised by the alarm system.
- The magnet has to be placed on that side of the sensor which is marked with a small triangle.
- The magnet and sensor also have to be aligned/centered thickness-wise on as similar level as possible.
- The sensor and magnet have to be placed in the same operational axis.
- The sensor and magnet should be mounted on the side opposite from the hinge/pivot point.
- Alternatively, if the sensor is placed on a window that slides open, the sensor and magnet may be mounted in many positions,
- Pay careful attention to the arrow printed on the sensor. This should be oriented to face the magnet. The distance between the two should always be less than the values for "closed" in the detection distances table. We recommend less than 5mm.

SEE PAGE 2 FOR ILLUSTRATIONS

Mounting

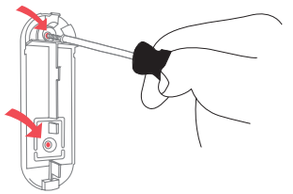
- Clean the surface before mounting.
- The entry sensor (a) should be mounted to the frame using the double stick tape, already applied on the back of the sensor and magnet. Press firmly to secure the magnet and the back-panel of the sensor.

c.



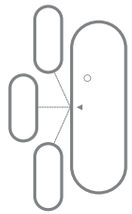
- After the back-panel has been placed, install the two screws. Close the casing and fasten the screw on the sensor. These screws are crucial as they act as break-away base segment for the back tamper.

d.



- The magnet (b) should be mounted on the door or window no further than 5mm away from the arrow on the sensor.
- There are many ways to mount the sensor and magnet, as windows and doors vary greatly. The most important consideration is for the magnet to be placed as near to the point on the sensor indicated by the grey arrow.

e.



- The sensor and magnet may be placed on separate three dimensional planes, though this does affect the maximum distance allowed. The magnet may also be placed either facing the side of the sensor or sitting parallel to it.

Testing

You can test if the positioning of the sensor and magnet are correct by checking whether the green light on the entry sensor is flashing when you open or close the window/door.

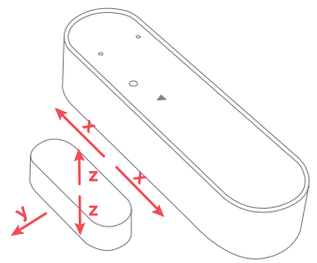
Detection distances

The sensor and the magnet have the following approach/removal detection distances:

NON-METALLIC SURFACE

Direction	Open	Close
x	14 mm	8 mm
y	10 mm	6 mm
z	28 mm	6 mm

f.



Resetting

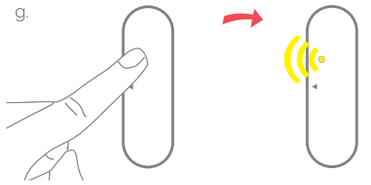
Resetting is needed if you want to connect your Alarm Entry Sensor 2 to another gateway or if you need to perform a factory reset to eliminate abnormal behavior.

The reset button is marked with the small ring on the front of the sensor.

STEPS FOR RESETTING

1. Press and hold down the reset button for approximately 14-16 seconds.
2. While you are holding the button down, the LED first flashes once, then two times in a row, and finally numerous times in a row.

g.



3. Release the button while the LED is flashing numerous times in a row.
4. After you release the button, the LED shows one long flash, and the reset is completed.

Modes

ACTIVATION MODE

A single green flash means that the sensor and the magnet are moving either away from or towards each other.

h.

SEARCHING GATEWAY MODE

Yellow flashes every second for a longer period, means that the device is searching for a gateway.

LOST CONNECTION MODE

When the yellow LED flashes 3 times, it means that the device has failed to connect to a gateway.

LOW-BATTERY MODE

Two consecutive yellow LED flashes every 60 seconds, means that the battery should be replaced.

Fault finding

- If the Alarm Entry Sensor 2 does not work when the window or door is parted, the probable cause is a faulty battery. Replace the batteries if they are worn out.

- In case of a bad or weak signal, change the location of the sensor. Otherwise you can relocate your gateway or strengthen the signal with a range extender.
- If the search for a gateway has timed out, a short press on the button will restart it.

Battery replacement

When low battery is indicated replace the batteries.

CAUTION:

- Do not attempt to recharge or open the batteries.
- Risk of explosion if batteries are replaced by an incorrect type.
- Dispose of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery can result in an explosion
- Leaving a battery in an extremely high temperature surrounding environment can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas
- Maximum operation temperature is 50°C
- If you experience leakage from the batteries, immediately wash your hands and/or any affected area of your body thoroughly!

CAUTION: When removing cover for battery change - Electrostatic Discharge (ESD) can harm electronic components inside

1. Open the casing of the device with a screw to remove the front panel from the back cover.
2. Replace the batteries respecting the polarities. The Alarm Entry Sensor 2 uses 2xAAA batteries.
3. Close the casing and fasten the screw.
4. Test the entry sensor.

Other information

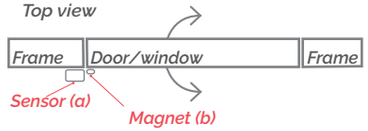
Note local regulations about information to your insurance company regarding installed window sensors.

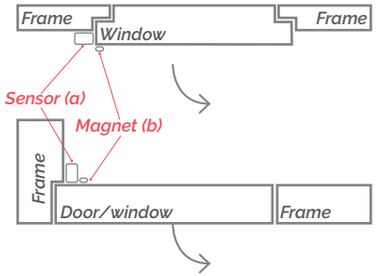
Disposal

Dispose the product and battery properly at the end of life. This is electronic waste which should be recycled.

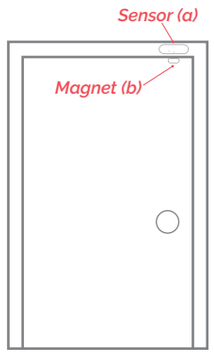
Placement Examples - Top view

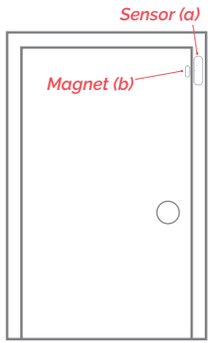
i. *Top view*

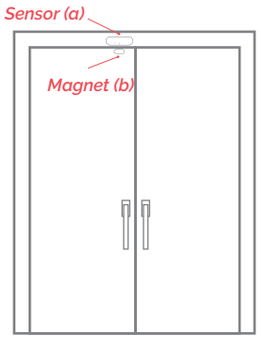


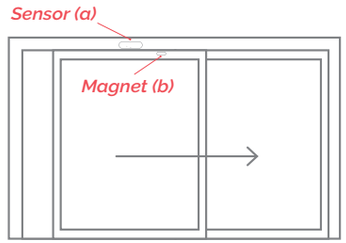


Placement Examples - Doors



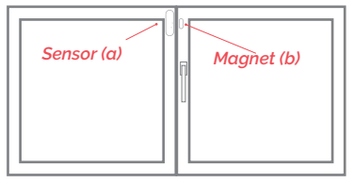


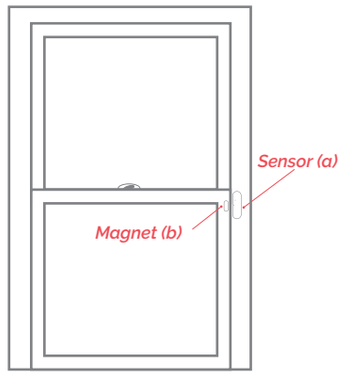


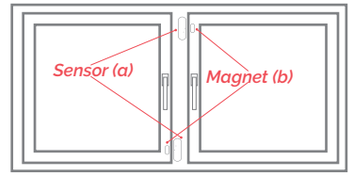


Sliding Door

Placement Examples - Windows







Technical specifications

General

- Dimensions sensor: 76 x 26 x 17 mm
- Dimensions magnet: 30 x 12 x 9 mm
- Weight: 50 g

Power supply:

- 2 x AAA batteries, Alkaline
- Exchangeable (PS type C)
- Battery life: 7 years (typical)
- Low battery warning under: 2.2 V
- Nominal operation voltage: 3V
- Maximum current consumption: 80 mA
- Quiescent current consumption: 13 uA
- Minimum battery capacity: 900 mAh

Environment

- Operation temperature 0 to +50°C
- Relative humidity 5% - 85%, non condensing

CE certification

The CE mark affixed to this product confirms its compliance with the European Directives which apply to the product and, in particular, its compliance with the harmonized standards and specifications.

IN ACCORDANCE WITH THE DIRECTIVES

- Radio Equipment Directive (RED) 2014/53/EU
- RoHS Directive 2015/863/EU amending 2011/65/EU

Other certifications

- Zigbee 3.0 certified.

zigbee certified product

- EN 50131-1:2006+A3:2020

Grade 2, Class II, internal

- EN 50131-2-6: 2008.
- EN 50130-4:2011 + A1:2014
- EN 50130-5:2011

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