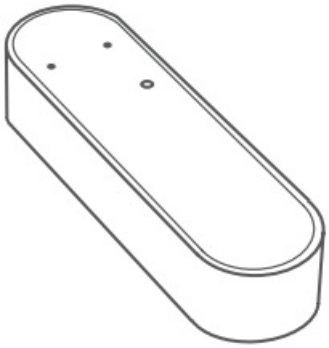
zigbee Vibration Sensor Installation Guide

Contents

Vibration Sensor



INSTALLATION MANUAL

Version 1.2

Product description

The Vibration Sensor detects and reports vibration. Attached to windows, the Vibration Sensor can detect breaking glass and warn about break-ins. It can be mounted underneath beds to monitor patients* sleep or on piping to identify blockages and other abnormalities.

Disclaimers

CAUTION:

- Choking hazard! Keep away from children. Contains small parts.
- Please follow the guidelines thoroughly. The Vibration Sensor 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. Develco Products cannot be held responsible in case any of the abovementioned situations occur.

Precautions

- When removing cover for battery change – electrostatic discharge can harm electronic components inside.
- Always mount indoors as sensor is not waterproof.

Placement

- Place the sensor indoors at a temperature between 0-50°C.
- In case of a weak or a bad signal, change the location of the Vibration Sensor or strengthen the signal with a smart plug.
- The Vibration Sensor can be placed on different surfaces indoors such as windows, cabinets, chairs, tables, beds, pipes, a compressor or anywhere else where vibrations can give valuable insights.

Getting started

1. Open the casing of the device by pushing the fastening on top of the device to remove the front panel from the back cover.

a.

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

b.

7. When the red LED stops flashing, the Vibration Sensor has successfully joined the Zigbee network.

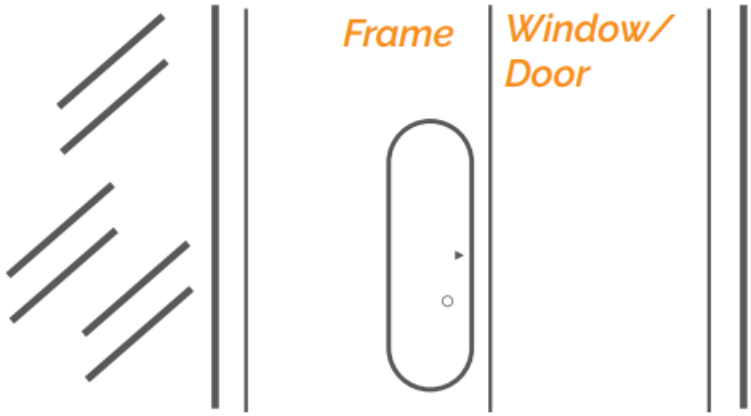
Mounting

1. Clean the surface before mounting.
2. The Vibration Sensor should be mounted on the surface using the double stick tape, already applied on the back of the sensor. Press firmly to secure sensor.

MOUNTING EXAMPLE 1: WINDOW

1. Clean the surface before mounting.
2. The Vibration Sensor should be mounted on the window frame using the double stick tape, already applied on the back of the sensor. Press firmly to secure sensor.

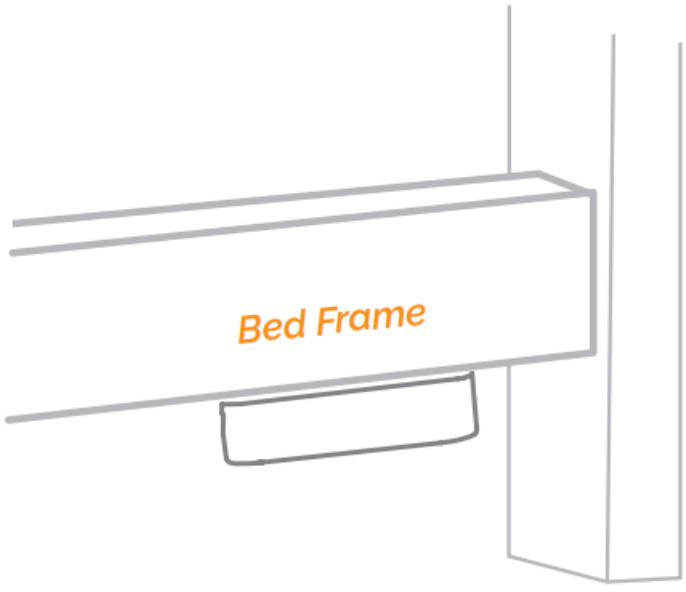
b.



MOUNTING EXAMPLE 2: BED

1. Clean the surface before mounting.
2. The Vibration Sensor should be mounted on the frame underneath the bed using the double stick tape, already applied on the back of the sensor. Press firmly to secure sensor.

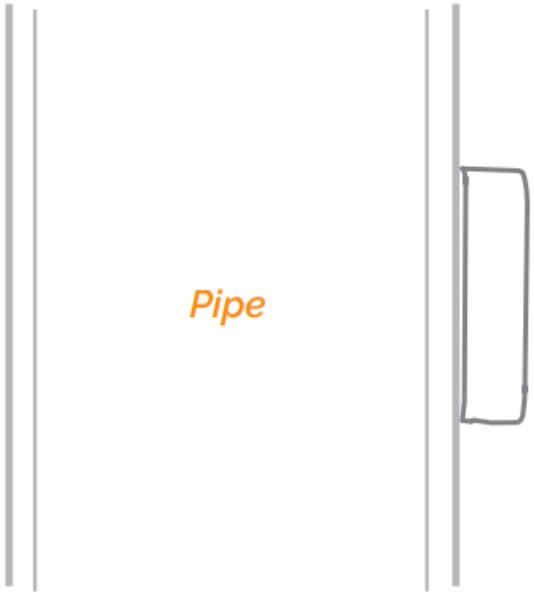
c.



MOUNTING EXAMPLE 3: PIPINGS

1. Clean the surface before mounting.
2. The Vibration Sensor should be mounted on the pipe using the double stick tape, already applied on the back of the sensor. Press firmly to secure sensor.

d.



Resetting

Resetting is needed if you want to connect your Vibration Sensor 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 until the LED first flashes once, then two times in a row, and finally numerous times in a row.
2. Release the button while the LED is flashing numerous times in a row.

e.

3. After you release the button, the LED shows one long flash, and the reset is completed.

Modes

SEARCHING GATEWAY MODE
Red flashes every second for a longer period, means that the device is searching for a gateway.

LOST CONNECTION MODE
When the red LED flashes 3 times, it means that the device has failed to connect to a gateway.

LOW-BATTERY MODE
Two consecutive red LED flashes every 60 seconds, means that the battery should be replaced.

Battery replacement

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 / 122°F
- 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 by pushing the fastening on top of the device to remove the front panel from the back cover.
2. Replace the batteries respecting the polarities. The Vibration Sensor uses 2xAAA batteries.
3. Close the casing.
4. Test the Vibration Sensor.

Fault finding

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

Other information

Note local regulations about information to your insurance company regarding installed Vibration Sensors.

Disposal

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

FCC statement

Changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/ TV technician for help.

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

IC statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

ISED statement

Innovation, Science and Economic Development Canada ICES-003 Compliance Label: CAN ICES-3 (B)/NMB-3(B).

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

- REACH 1907/2006/EU + 2016/1688

Other certifications

Zigbee 3.0 certified

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Documents / Resources

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