# user manual




Please read the user manual carefully before operating.
Please keep the user manual for future reference.

## Production Introduction

Infibity Door Sensor is a wireless (Z-Wave) sensor that detects opening and closing of a door, window, gate, etc. and is compatible with the Grenton Smart Home system. It is powered by batteries, with small body, and can be installed on the window or door easily. In order for the device to become part of the Grenton Smart Home network it needs to be added to the Grenton CLU Z-Wave control unit. Then the Door Sensor sends events to the Grenton Systems whenever the its status is changed, i.e. when the door the device is installed on gets opened or closed. The events and information about the current status of the sensor can be used in any scenario to be implemented in the Grenton Smart Home system.
The device can also be used with any other Z-Wave gateway and can realize associations with other Z-Wave devices. Please refer to our website for more information.

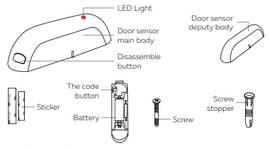
## Technical Parameters

| | |
|---|---|
| Power | CR2 (3V) x1 |
| Standby current | 1 µA |
| Battery life | 1 year |
| Radio protocol | Z-Wave |
| Radio frequency | 868.4MHzEU |
| Compatible with | Z-Wave 300 series and 500 series |
| Wireless distance | up to 60 m outdoor, up to 30 m indoor |
| Operation temperature | 0 - 40°C |
| Storage temperature | 0 - 60°C |
| Size (L x W x H) | Door sensor main body: 71 x 20 x 22 mm |
| | Door sensor deputy body: 40 x 11 x 11 mm |

## Technical Information

- Installed on the door or window
- Battery powered
- Easily installed with screws or sticker
- Associate with other devices through gateway
- Compatible with any Z-Wave network

## Product elements




## Items list

| | |
|---|---|
| Door sensor main body | 1 pc |
| Door sensor deputy body | 1 pc |
| Battery | 1 pc |
| Screw | 4 pc |
| Screw stopper | 4 pc |
| Sticker | 2 pc |
| User manual | 1 pc |

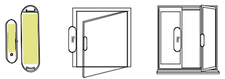
## Installation Steps

**1. Door Sensor Installation**

**Option one**
Disassemble the door sensor main body and take out battery, fix the main body on the door with screws. Disassemble the door sensor deputy body and fix it on the corresponding door frame position.



**Option two**
Put the sticker on the bottom of door sensor then fix it on the wall.



**NOTE:** When installing door sensor, door sensor deputy body must be installed on the bulge side of the door sensor main body.

**2. Battery Installation**




## Tips

1. When install door sensor, the distance between main body and deputy body should be less than 2cm in the state of door closed.
2. When the door is closed, that is to say, distance between main body of door sensor and deputy body is less than 2 cm, the sensor would provide the status saying that the door is closed.
3. When the door is open, that is to say, distance between main body of door sensor and deputy body is more than 2 cm, the sensor would provide the status saying that the door is open.
4. Make sure door sensor is placed in the Z-Wave network range of Grenton CLU Z-Wave control unit.

## Battery Usage Tips

Battery life of door sensor is approximately 1 year. The power level of battery would be available in the system.
In order to avoid false events, before replacing battery, please disconnect association of door sensor with other devices.

**NOTE** :Door sensor is powered by battery, and please use battery in a correct way to avoid exploding. When handling the battery, refer to environmental law please.

## The status of LED

1. When door sensor is triggered, LED lights would flash red color 1 time.
2. When door sensor is installed with battery, LED lights would flash red color 5 times.
3. Add or remove door sensor from Z-Wave network by quickly pressing the button 3 times,then LED lights would flash red color 5 times.
4. Press and hold the code button for 10 – 15 s, then door sensor would be restored to factory default settings. Meanwhile, LED lights would flash red color 5 times on and off alternately.
5. Under the normal state, LED lights would keep "off " state.

## Configuration

**Add Door Sensor to Grenton Network**

Door sensor can be included to Z-Wave network by pressing the code button.
1. Disassemble the main body of door sensor by pressing the disassemble button, then install battery. After making it powered on, please do not operate it within 20 s.
2. Place door sensor within Z-Wave network range of the CLU Z-Wave, press shortly „Link" button on the CLU Z-Wave module. The green LED on CLU Z-Wave will start blinking.
3. Press the code button in door sensor three times continuously, then door sensor will enter inclusion mode. Meanwhile, the door sensor LED light would flash red color five times on and off alternately. Three flashes of red and green LEDs on CLU Z-Wave is confirmation of proper inclusion process.

**Remove Door Sensor from Grenton Network**

1. Make sure door sensor is powered on.
2. Press shortly „Unlink" button on the CLU Z-Wave module. The red LED on CLU Z-Wave will start blinking.
3. Press the code button in door sensor three times continuously, then door sensor will enter exclusion mode. Meanwhile, the door sensor LED light would flash red color five times on and off alternately. Three flashes of red and green LEDs on CLU Z-Wave is confirmation of proper exclusion process.

**Add Door Sensor to other Z-Wave Networks**

Door sensor can be included to Z-Wave network by pressing the code button.
1. Disassemble the main body of door sensor by pressing the disassemble button, then install battery. After making it powered on, please do not operate it within 20 s.
2. Place door sensor within Z-Wave network range of gateway.
3. Set Z-Wave gateway into inclusion mode (Refer to gateway user manual)
4. Press the code button in door sensor three times continuously, then door sensor will enter inclusion mode. Meanwhile, LED light would flash red color five times on and off alternately.
5. Door sensor will be detected and included in the Z-Wave network.
6. Wait for gateway to configure the sensor.

**Remove Door Sensor from other Z-Wave Networks**

1. Make sure door sensor is powered on.
2. Set Z-Wave gateway into exclusion mode (Refer to gateway user manual)
3. Press the code button in door sensor three times continuously, then door sensor will enter exclusion mode.
4. Meanwhile, LED light would flash red color five times on and off alternately.
5. Wait for gateway to remove the sensor.

**Restore Door Sensor to Factory Default Settings**

Reset procedure will delete all information in the Z-wave network or Z-Wave gateway, and will restore door sensor to factory default settings.
1. Remove the cover of door sensor main body.
2. Make sure the sensor is powered.
3. Press and hold the reset button for 10 – 15 seconds, then LED lights would flash red color 5 times on and off alternately.
4. Release the button.

**NOTE**: During the process of resetting, please make sure door sensor is powered on all the time.

## Command Classes

This Sensor (Door/Windows Detector) supports Command Classes as Below:
* COMMAND_CLASS_ZWAVEPLUS_INFO (V2)
* COMMAND_CLASS_VERSION (V2)
* COMMAND_CLASS_MANUFACTURER_SPECIFIC (V2)
* COMMAND_CLASS_DEVICE_RESET_LOCALLY (V1)
* COMMAND_CLASS_POWERLEVEL (V1)
* COMMAND_CLASS_BATTERY (V3)
* COMMAND_CLASS_ASSOCIATION (V2)
* COMMAND_CLASS_ASSOCIATION_GRP_INFO (V1)
* COMMAND_CLASS_WAKE_UP (V2)
* COMMAND_CLASS_NOTIFICATION (V4)
* COMMAND_CLASS_SENSOR_BINARY (V2)
* COMMAND_CLASS_CONFIGURATION (V1)

## Device Application

The data from the device should be used for informational purposes only and cannot be relied upon in any security and/or safety related applications. In no event will Grenton Sp. z o. o. be liable under any theory of liability whatsoever (whether in contract, tort, or otherwise) for any loss or damage of any kind, sort or nature arising out of, or in connection with, any use of, or reliance upon, the device or any of the information provided by Grenton Sp. z o. o.

## More information

www.infibity.com

## Warranty

The warranty is available at: www.infibity.com/warranty

## Company data

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