



SITERWELL

Instruction Manual

Door Sensor

Model number: STW-W3320WU

Thank you for your support

- Please read the instruction manual carefully before operating
- Please keep the instruction manual for future reference



Siterwell Technology HK Co.,LTD

Introduction

Door sensor is an intelligent security equipment that can transmit the Z-Wave network which has particular frequency. In the Z-Wave network communications, door sensor can be connected to any Z-Wave main controller (ex, SiterOne tablet). The door sensor can send messages to the Z-Wave main controller, and realize association with other devices through the Z-Wave main controller. Different countries or areas, the radio frequency is different. In the communication with the Z-Wave main controller, the door sensor can send messages to the Z-Wave main controller, but it cannot receive messages from the Z-Wave main controller. When alarm is triggered, the door sensor sends messages to the Z-Wave main controller, the Z-Wave main controller will display the current status of door sensor, so the door sensor can associate with other devices. Door sensor is battery powered, is small and can be installed on the window or door easily. When the door or window is open, the door sensor is triggered and linkage alarm realized.

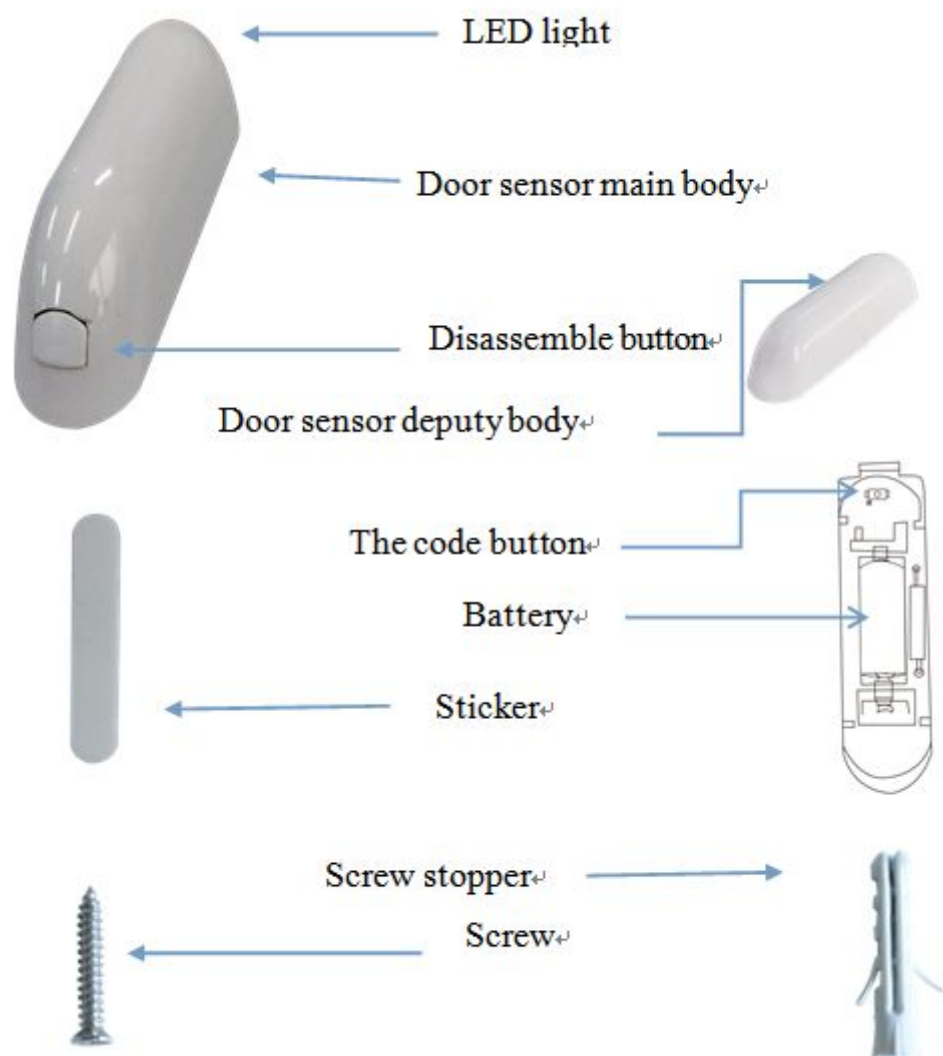
Technical Parameters

- Power: CR2x1
- Standby current: 1uA
- Battery life: 2 years
- Radio Protocol: Z-Wave
- Radio Frequency: 868.4MHz EU; 908.4MHz US; 921.4MHz ANZ; 869.2MHz
- Compatible with 300 series and 500 series
- Wireless distance : 50m
- Operation temperature: 0-40°C
- Storage temperature: 0-60°C
- Size: Contact sensor main body (L x W x H): 70mmx20mmx20mm
Contact sensor deputy body (L x W x H): 40mmx11mmx11mm

Technical Information

- Install on the door or window.
- Battery powered.
- Easily install with screws or sticker.
- Associate with other devices through the gateway.
- Compatible with any Z-Wave network (ex, SiterOne tablet).

Product Configuration



Product List

Door sensor main body	1pc
Door sensor deputy body	1pc
Battery	2pcs
Screw	4pcs
Screw stopper	4pcs
Sticker	2pcs
Instruction manual	1pc

Add Door Sensor to Z-Wave Network

The door sensor can be added to the Z-Wave network by pressing the code button.

1. Disassemble the door sensor main body and insert the battery. Make sure the device is located within the direct range of the controller.
2. Set the main controller SiterOne into the adding mode (see main controller's operating manual).
3. Quickly, triple click the code button, LED light will flash for 5 times.
4. Door sensor will be detected and added in the Z-Wave network.
5. Wait for the main controller to configure the sensor.

Remove Door Sensor from Z-Wave Network

1. Make sure the sensor is inserted with battery.
2. Set the main controller into the remove mode (see main controller's operating manual).
3. Quickly, triple click the code button, LED light will flash for 5 times.
4. Wait for the main controller to remove the sensor.

Restore Door Sensor to Factory Default

Reset will delete all information on the Z-Wave network or Z-Wave controller, and restore the sensor to factory default settings.

1. Remove the cover of door sensor main body.
2. Make sure the sensor is inserted with battery.
3. Press and hold the reset button for 10 seconds, LED light will flash red for 1 time.
4. Release the button.

Note: use the reset procedure only when the primary controller is missing or inoperable.

NOTE

When the Door Sensor is being restored to factory default settings, please make sure the battery is inserted.

Installation Steps

- Door sensor Installation
- Battery Installation

Door Sensor Installation

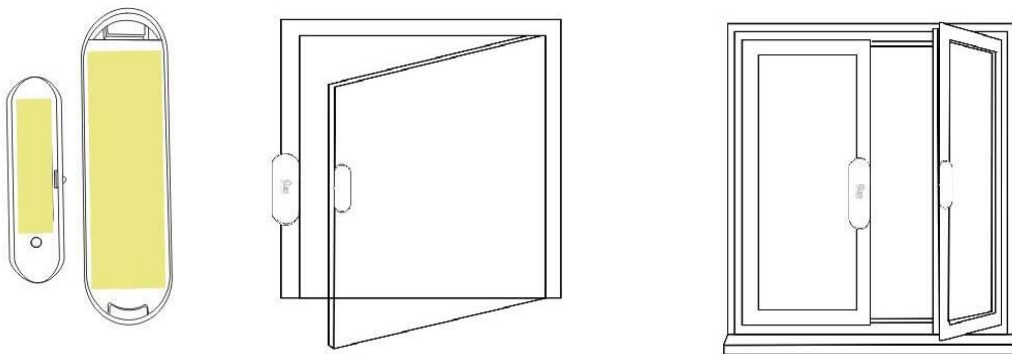
- **Option One**

Disassemble the door sensor main body and take out battery, fix it on the door with screws.

Disassemble the door sensor deputy body and fix it on the corresponding door frame position

- **Option Two**

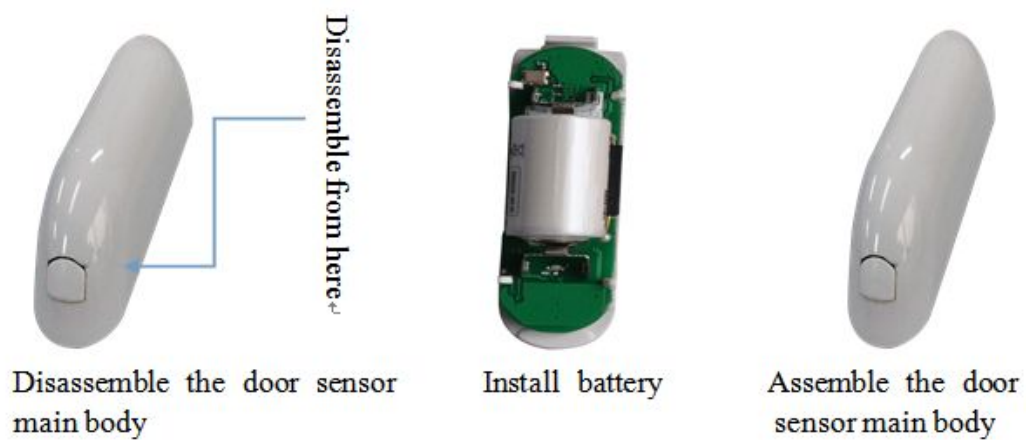
Put the sticker on the bottom of door sensor to fix it on the wall



NOTE

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

Battery Installation



Tips

- When the door is closed, and the distance between the main body and the deputy is less than 2cm, the Z-Wave main controller displays the door is closed perfectly.

- When the door is opened, the distance between the main body and the deputy body is more than 2cm, LED light flash and door sensor sends messages to the Z-Wave main controller, the Z-Wave main controller displays the door is open and alarms.
- Valid distance of door sensor is 2cm, so when install, please pay attention to the trigger surface, it is triggered by point to point.
- Make sure of that door sensor is in the Z-Wave network.

LED status

1. When the door sensor is triggered, LED light flashes red for 1 times.
2. When the door sensor installs battery, LED light will flash red for 5 times.
3. Quickly, triple click the code button ,add the door sensor to the Z-Wave network or remove door sensor from Z-Wave network , LED light flashes red for 5 times.
4. Press on the code button for 10 seconds, the door sensor will be restored to factory default settings, LED light flashes red for 1 time.
5. In the normal condition, the LED light keeps being off.

Associations

This has the effect that when the sensor is triggered, all devices associated with the sensor will receive the relevant reports. Through an association the sensor may control other Z-Wave network devices, e.g. the alarm device, wall plug, lamp etc.

This Sensor supports 4 association groups. This has the effect that when the sensor is triggered, all devices associated with the sensor will receive the relevant reports. Through an association the sensor may control other Z-Wave network device, e.g. a alarm device, wall plug, lamp etc. Every group can be support to associated 5 devices max.

GROUP 1 is lifeline service that assigned to Sensor (Door/Window detector) status –

Open/Close. It enables the sensor to send reports and readings to Z-Wave Controller or Z-Wave

Gateway whenever the sensor is triggered. This Group Support:

NOTIFICATION_REPORT

BATTERY_REPORT

SENSOR_BINARY_REPORT

DEVICE_RESET_LOCALLY_NOTIFICATION

GROUP 2 allows for sending control commands to associated devices such as relay module, lighting, etc. This association group is configured through the advanced parameters no. 1 and 2.

This Group Support:

BASIC_SET.

GROUP 3 allows for Send Notification to associated devices in this group.
This Group Support:
NOTIFICATION_REPORT

GROUP 4 allows for Send Notification to associated devices in this group.
This Group Support:
SENSOR_BINARY_REPORT

Battery Usage Tips

Battery life of the door sensor is approximately 2 years at factory default settings. The current battery level is displayed in the gateway. Red battery icon means the battery needs replaced. In order to avoid tamper detection, while replacing the battery, please disconnect the association of the door sensor with other devices.

Note

Door sensor is battery powered. Using batteries other than specified may result in explosion. Dispose of properly, please observe environmental protection rules.

Advanced Configuration

1. Configuring the OFF Delay

This configuration parameter that can be used to adjust the amount of delay before the OFF command is transmitted. This parameter can be configured with the value of 0 through 65535, where 0 means send OFF command immediately and 65535 means 65535 seconds of delay.

Function: On/Off Duration.

Parameter Number: 1.

Parameter Size: 2 Byte

Available Settings : 0-65535 (in seconds, each 1s).

Default Setting: 30 (s)

2. Basic Set Level

Basic Set Command will be sent where contains a value when the door/window is opened or closed, the receiver will take it for consideration; for instance, if a lamp module received the Basic Set Command of which value is decisive as to how bright of dim level of lamp module shall be.

Function: Basic Set

Parameter Number: 2

Parameter Size: 1 Byte

Available Settings : 0, 1 - 99 or 255

0 – OFF, Alarm cancelling or turning a device off

1 - 99 or 255 – ON (Binary Switch Device)

Dim Level (Multilevel Switch Device)

Default Setting: 99

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 (V1)
- * 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)

Guarantee

3. The Guarantee is provided by Siterwell Technology HK Co., LTD (hereinafter "Manufacturer").
4. The Manufacturer is responsible for equipment malfunction resulting from physical defects (manufacturing or material) of the device for 12 months from the date of its purchasing.
5. During the Guarantee period, the Manufacturer shall remove any defects, free of charge, by repairing or replacing.
6. In special cases, when the device cannot be replaced with the device of the same type (e.g. the device is no longer available in the commercial offer), the Manufacturer may replace it with a different device having technical parameters similar to the faulty one. Such activity shall be considered as fulfilling the obligations of the Manufacturer. The Manufacturer shall not refund money paid for the device.
7. The guarantee shall not cover:
 - mechanical damages (cracks, fractures, cuts, abrasions, physical deformations caused by impact, falling or dropping the device or other object, improper use or not observing the operating manual);
 - damages resulting from external causes, e.g.: flood, storm, fire, lightning, natural disasters, earthquakes, war, civil disturbance, force majeure, unforeseen accidents, theft, water damage, liquid leakage, battery spill, weather conditions, sunlight, sand, moisture, high or low temperature, air pollution
 - damages caused by malfunctioning software, attack of a computer virus, or by failure to update the software as recommended by the Manufacturer;

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