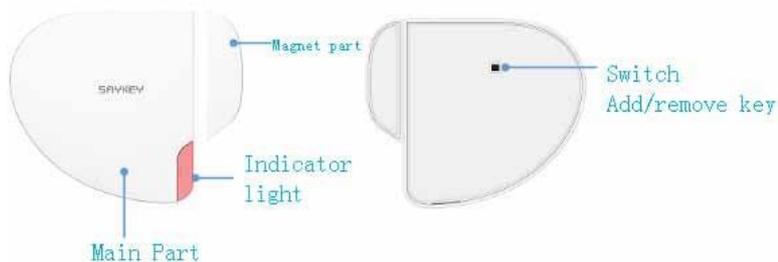


# Door/Window Sensor User Manual

## Description

This product is a separate trigger detector equips with magnet and magnetic sensor and wireless transmit functionality. When the magnet and the magnetic sensor is separated, the product issue wireless alarm signal to the associated gateway. It is suitable for a variety of installation environment requirements, with doors and windows open, close the real-time detection and cover tamper, battery level status report function.

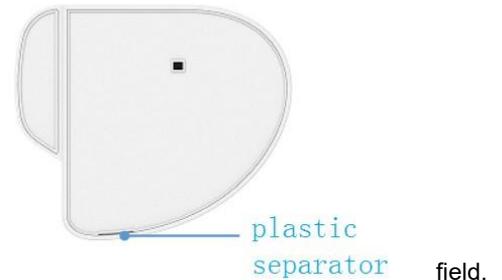
The product is Z-Wave plus device which is wireless accessible and can quickly, easily included and operated in any Z-Wave network with other Z-Wave certified devices from any other manufacturers.



## Installation

**Note:** This product should not be installed in the following places make sure product working normally.

- i. Should not install in the outdoor where easy to damage the location;
- ii. Should not install in the foundation is not strong or rainy position;
- iii. Should not install in the place close to power supply lines or magnetic



## Install prepare:

Remove the battery plastic separator before install the product on the wall. (refer to figure beside)

## Battery level status and Replacement

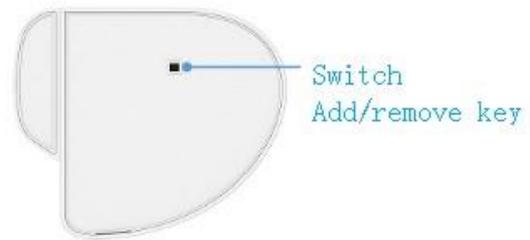
Low battery level was warning while LED flash quickly, please replace new battery as soon as possible.

Open the bottom cover with a small screw at the plastic separator hole, take out the PCBA to replace the battery.

Please be noted, the same type of battery is recommended make sure battery using life.

## Z-Wave Network Setup    Add into Z-Wave network

- 1) Remove the battery plastic separator or make sure battery level is normally, and Make sure the product is located within direct range of the Z-Wave controller.
- 2) Set the main controller into the inclusion/Add device mode (refer to main controller's operating manual).
- 3) Click the Add/Remove button on the bottom side of product triple times in 1.5 seconds.
- 4) The product will be detected and included in the Z-Wave network.



[Note:] During inclusion, LED will fast flash red light until inclusion process complete, normally it will stay in inclusion process around 60 seconds if there not any controller was detected. LED will light on 3 second notice inclusion is successful. After inclusion successful, the production will be stay in wakeup for 30 second in order to receive initial wakeup configuration from the main controller.

## Remove from Z-Wave network

- 1) Make sure battery level is normally and the product is located within direct range of the Z-Wave controller.
- 2) Set the main controller into the exclusion/Remove device mode (refer to main controller's operating manual).
- 3) Click the Add/Remove button on the bottom side of product triple times in 1.5 seconds.
- 4) The product will be detected and excluded from the Z-Wave network.

[Note:] During exclusion, LED will fast flash red light until exclusion process complete, normally it will stay in exclusion process around 5 seconds if there not any controller was detected. LED will light on 3 second notice exclusion is successful.

## Association report and control

Association allows for direct communication between Z-Wave network devices. Main controller does not take part in such communication. Using this mechanism the product could report sensor lifeline status to another Z-Wave network device, e.g. a Master Controller.

The product supports 10 association groups. Each group (#2~#10) supports associated 5 devices maximum except group #1 supports associated one device only. Please refer to the master controller's operating manual to add an association device and specify to which group and what devices are to be associated.

Group #1 is assigned to send unsolicited report of magnet open/close detection status and tamper cover status, battery level to the associated device as soon while the status is change.

Group #2 assigned to send Notification report to other device while the sensor detected door open/close.

Group #3 assigned to send Basic Set On Command to control other device while the sensor detected door open.

Group #4 assigned to send Basic Set Off Command to control other device while the sensor detected door open.

Group #5 assigned to send Basic Set On Command to control other device while the sensor detected door close.

Group #6 assigned to send Basic Set Off Command to control other device while the sensor detected door close.

Group #7 assigned to send Notification report to other device while the tamper detected on/off.

Group #8 assigned to send Binary sensor report to other device while the tamper detected on/off.

Group #9 assigned to send Basic Set On Command to control other device while the tamper detected open.

## Wakeup the product manually for Z-Wave configuration

The product is in battery power, you can set up the wake up time based in seconds. At each wake up, the product communicates with the master controller to updates parameters settings if necessary, e.g. receive the association group setting. The product will wake up at defined time interval and will ALWAYS try to communicate with the master controller. Longer time interval means less frequent communication and thus a longer battery life.

The product default wakeup interval is 86400 seconds. User can operate inclusion/exclusion process in order to trigger product wakeup manually, it will keeps 30 seconds in wakeup state without initial wakeup parameter setting and keeps 10 seconds in wakeup after initial wakeup parameter.

## Application Requirement Reject

The Notification Reports cannot be deactivated. Application Rejected Request with status 0x00 occurs when the controller tries to deactivate/turn off the Notification Type in order to not trigger the specific Notification Report again

## Notification Types and Events

The product supports notification alarm type of "ACCESS\_CONTROL =0x06" and event type of "EVENT\_ACCESS\_CONTROL\_DOOR\_IS\_OPEN=0x16" and "EVENT\_ACCESS\_CONTROL\_DOOR\_IS\_CLOSE=0x17" while door open or close.

The product supports notification alarm type of "HOME\_SECURITY=0x07" and event type of "EVENT\_HOME\_SECURITY\_TAMPERING\_COVERING\_REMOVED=0x03" and "NO\_EVENT =0x00" while detect tamper on or off.

## Binary Sensor Report

The product supports binary sensor report value of "DETECT AN EVENT =0xFF" and "IDLE=0x00" while detect tamper on or off.

## OTA firmware update

The product supports update firmware by OTA. It is strong recommend replace with new brand battery before start OTA firmware update in order to make sure power supply during OTA firmware update processing.

## Default Factory Reset

The factory default settings are restored when the device is removed from the network. Please use this procedure only when the network primary controller is missing or otherwise inoperable.

## Technical Parameters

Operating voltage:	3V (Battery Type: CR2450)
Quiescent current:	<4uA
Alarm current:	<20mA
The alarm prompt:	LED flashes

Operating frequency:	868.42 MHz – China / Europe
	908.42 MHz – United States
	921.42 MHz – Australia
	869.22 MHz – Russia
The distance:	from the indoor distance of 30 meters
	Outdoor straight: distance of 40 meters
Operating temperature:	-10°C~+50°C
Relative humidity:	≤95%RH
Dimensions	36x78x19 mm (door mount module)
	15x78x19mm (magnet assembly)

## Z-Wave Parameters

### Device Type:

Generic Deice Type = GENERIC\_TYPE\_SENSOR\_NOTIFICATION

Specific Device Type = SPECIFIC\_TYPE\_NOTIFICATION\_SENSOR

Z-Wave Plus Role Type:

ZWAVEPLUS\_INFO\_REPORT\_ROLE\_TYPE\_SLAVE\_SLEEPING\_REPORTING

### Support Command Class:

COMMAND\_CLASS\_ZWAVEPLUS\_INFO,

COMMAND\_CLASS\_VERSION,

COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC,

COMMAND\_CLASS\_WAKE\_UP,

COMMAND\_CLASS\_POWERLEVEL,

COMMAND\_CLASS\_FIRMWARE\_UPDATE\_MD,

COMMAND\_CLASS\_ASSOCIATION,

COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO,

COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION,

COMMAND\_CLASS\_MULTI\_CHANNEL,

COMMAND\_CLASS\_BATTERY,

COMMAND\_CLASS\_NOTIFICATION,

COMMAND\_CLASS\_SENSOR\_BINARY,

COMMAND\_CLASS\_APPLICATION\_STATUS,

**Note:** Support COMMAND\_CLASS\_MLTI\_CHANNEL is the requirement of control other multi-channel endpoint devices function;  
there is no any endpoint in this product actually.

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### **What's in the box**

Z-wave Door/Window Sensor X 1

Operating manual X 1

Double-sided rubber X 1

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