EH-DS-01 Door/Window Sensor Installation Guide

Introduction

EH-DS-01 has door/window sensor function, based on Z-Wave technology.
It's the Z-Wave plus product, it support the security…Those newest feature of Z-Wave technology. Z-Wave is a wireless communication protocol designed for home automation, especially to remotely control applications in residential and light commercial environments. The technology uses a low-power RF radio embedded or retrofitted into home electronics devices and systems, such as lighting, home access control, entertainment systems and household appliances.

This product can be included and operated in any Z-Wave Network with other Z-Wave network with other Z-Wave certified device from other manufactures and/or other applications. All-non battery operated nodes within the network will act as repeater regardless of vendor to increase reliability of the network.

The device adopt the Z-Wave 500 series chip, when your Z-Wave network system is all made by Z-Wave 500series devices. The network system will have the advantages as below:
■Better RF range, improve 10 meters indoor.
■Support 100Kbps transmit speed, speed up communication.

Frequency	908.42 / 908.40 / 916.00 MHz
Battery Type	CR123A Battery 1 PCS
Operating Temperature	0 °C to 50 °C (32 ℉ - 122 ℉)
Storage Temperature	–20°C to 60 °C (-4 ℉ - 140 ℉)
Operating Air Range	Up to 148 feet line of sight
Dimension	Device: 94.5 mm x 24.3 mm x 22.4 mm Magnet: 46 mm x 12.8 mm x 13.3 mm

Function:

Add (Inclusion) Sensor

1. Remove device front cover, open the device. (Figure 1)

Figure 1

2. Press the function button three times in 2 seconds.

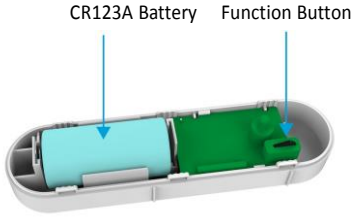


Figure 2

3. Led will flash three times while the network inclusion is successful (Figure 2).

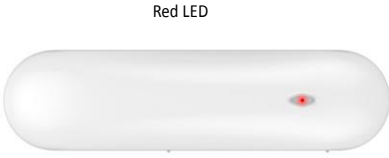


Figure 3

4. If inclusion failed, the sensor will go to sleep mode. To wake the sensor again, youneed to use magnet or tamper (Figure 3) to trigger a Adding (Inclusion) process, and then sensor will repeat steps from 3 to 4.

Remove (Exclusion) Sensor

Inclusion Sensor

1. Open the device and pressing the function three times and enter exclusion mode. (Figure 4).

Pressing the function button

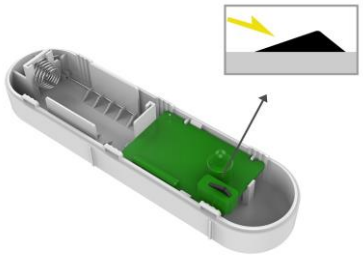


Figure 4

2. If remove (exclusion) successful, sensor will go to auto adding process.
3. Node ID has been removed.

Reset to Factory Default

Installation

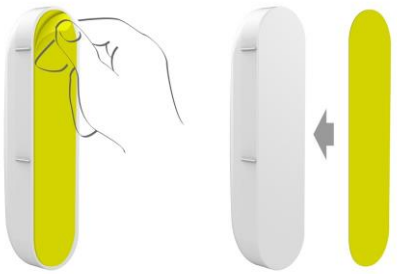
Press the function button while installing battery.

Note: Use this procedure when the primary controller is lost.

Installation

Inclusion Sensor

1. Please make sure that the sensor and magnet is located less than 0.7 inch from each other. For optimal performance, it is highly recommended to install the Door/Window sensor on the fixed frame and the magnet on the moving part of the door/window. Place the sensor near the top of the door that close to the opening edge of the door. This is the mounting location for the sensor.
2. Use the provided double-sided tape on the sensor. Attach the sensor to the door. Press firmly and hold in place for a few seconds (Figure 5).



Adhesive application surface: Acrylic, Glass
Aluminum and Stainless steel…etc.

Figure 5

3. Use provided double-sided tape on the magnet. Press firmly and hold in place for a few seconds.

Alignment Mark

Figure 6

4. Association
Support group identifier = 1
Support one group with 5 nodes.
All triggering report and low voltage report will be sent to the associated nodes.

5. Awake mode
It will be triggering after opening bottom cover. EH-DS-01 will send “Wake up Notification” after 10 seconds. If EH-DS-01 received “Wake Up No More Information” command then it will go off or it will go off after wait 10 seconds . It will process all the commands after sending the “Wake Up Notification”.

6. Auto Wake Up
Use “Wake up” command to set up the awaking time and send the wake up notification to controller.
User can use command to change the auto wake up from 1 minute to 24 hours, interval increment is 1 minute. Reset to Factory default mode is 5 minutes.

Z-Wave Command Classes

- COMMAND_CLASS_ZWAVEPLUS_INFO
- COMMAND_CLASS_VERSION
- COMMAND_CLASS_MANUFACTURER_SPECIFIC
- COMMAND_CLASS_DEVICE_RESET_LOCALLY
- COMMAND_CLASS_POWERLEVEL
- COMMAND_CLASS_BATTERY
- COMMAND_CLASS_NOTIFICATION
- COMMAND_CLASS_ASSOCIATION
- COMMAND_CLASS_ASSOCIATION_GRP_INFO
- COMMAND_CLASS_SENSOR_BINARY
- COMMAND_CLASS_WAKE_UP

Notification Type

	Switch Type	Status
Notification Type	Reed Switch	0x06
	Tamper Switch	0x07
Event	Reed Switch	Close:0x17, Open:0x16
	Tamper Switch	Close:0x00, Open:0x03
Sensor Binary Report	Reed Switch	Close:0x00, Open:0xFF
Alarm Type	Reed Switch	0x06
	Tamper Switch	0x07
Alarm Level	Close:0x00, Open:0xFF	

Operation

1. The LED will stay off during the normal operation.
2. The sensor equipped with a tamper switch. If the cover of sensor is removed, the sensor will send an alarm to the home controller.
3. Tamper switch event will be ignored when in auto inclusion process.

Warning

Do not dispose of electrical appliances as unsorts municipal waste, use separate collection facilities. Contact your local government for information regarding the collection system available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new once, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.