

SW-DWS02N Door/Window Sensor Installation Guide

Introduction

Z-Wave Door/Window sensors are designed to secure the perimeter of the residential premise, and provide the ability to add various automation services. The Z-Wave Door/Window sensor, which consists of a magnet that attaches to a door or window, will communicate door events to the home security system. When the magnet is moved away from the sensor, a signal will be sent to the control panel that communicates the changed state to the security system. Signals can also be used to activate a chime or convenience lighting based on system settings.

Specification

Frequency	908.42 / 908.40 / 916.00 MHz
Battery Type	CR2 Battery 1 PCS
Operating Temperature	0° C to 50° C (32°F - 122°F)
Storage Temperature	-20° C to 60° C (-4°F - 140°F)
Operating Air Range	Up to 148 feet line of sight
Dimension	Device: 67 mm x 19 mm x 20 mm (2.63" x 0.74" x 0.78") Magnet: 45 mm x 8 mm x 15 mm (1.77" x 0.31" x 0.59")

Add (Inclusion) Sensor

For Adding in (Inclusion) a network: Put the Z-Wave Interface Controller into “Add (Inclusion)” mode, and following its instruction to add SW-DWS02N to your controller. This Door/Window sensor needs to be included before installation.

1. Pull the exposed plastic tab from the sensor. (Figure 1)



Figure 1

2. The Green LED indicator will be lit for one second to indicate a successful booting.
3. It will blink one time every second while scanning the network (Figure 2).

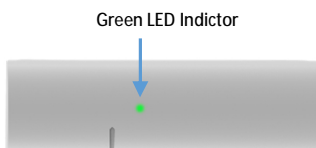


Figure 2

4. If network is not found after 30 seconds, the sensor will go into sleep mode. To wake the sensor again, you need to use magnet or tamper (Figure 3) to trigger a Adding (Inclusion) process, and then sensor will repeat steps from 3 to 4.

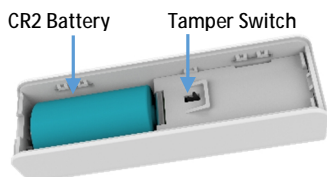


Figure 3

Remove (Exclusion) Sensor

For Removing from (Exclusion) a network: Put the Z-Wave Interface Controller into “Remove (Exclusion)” mode, and following its instruction to delete SW-DWS02N to your Z-Wave controller.

1. Remove device rear cover and pressing the tamper button **three times** within 2 seconds, green LED indicator should go “On” 0.5 second and enter exclusion mode. (Figure 4).

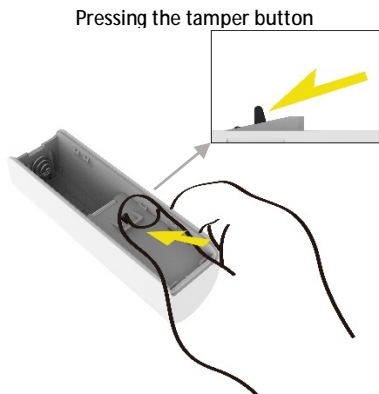


Figure 4

2. If remove (exclusion) successful, go auto Adding procedure.
3. Node ID has been remove.

Factory Default Reset

1. Pressing the tamper button **four times** within 2 seconds (Figure 4) and do not release the tamper button in the 4th pressed, and the LED will turn ON.
2. After over 3 seconds the Green LED indicator will turn OFF, then go auto Adding procedure.
3. IDs are excluded and all settings will reset to factory default.
4. Device begin auto Adding (Inclusion) mode.

Note: Use this procedure only in the event that the primary controller is lost.

Installation

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). Secure it with silicone if needed.

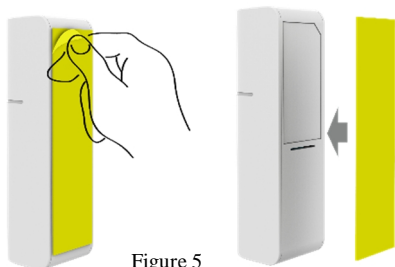


Figure 5

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

3. Use provided double-sided tape on the magnet. Make sure the alignment of both sensor and magnet alignment mark are facing each other (Figure 6). Press firmly and hold in place for a few seconds. Secure it with silicone if needed.



Figure 6

4. SW-DWS02N can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.
5. Association
 - Support grouping identifier = 1
 - Support one group with 5 nodes.
 - All triggering report and low voltage report will be sent to the associated nodes.
6. Awake mode
 - It will be triggering after opening bottom cover. SW-DWS02N will send “Wake Up Notification” after 10 seconds. If SW-DWS02N received “Wake Up No More Information” command then will go off or it will wait 10 seconds then go off. It will proceed all the commands after sending the “Wake Up Notification”.
7. 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. Factory default is 120 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_BASIC
- COMMAND_CLASS_WAKE_UP
- COMMAND_CLASS_FIRMWARE_UPDATE_MD

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
BASIC Report	Reed Switch	Close:0x00, Open:0xFF
Alarm Type	Reed Switch	0x06
	Tamper Switch	0x07
Alarm Level	Close:0x00, Open:0xFF	

Operation

1. The Green Pairing LED will stay off during the normal operation.
2. The sensor is 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 procedure.

Certification

FCC Statement: 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 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.

The FCC ID for this device is P27SWDWS02N

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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.

FCC RF Radiation Exposure Statement:

- This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.