

OPERATING MANUAL

DOOR WINDOW SENSOR

HKZW-DWS01-V1.0

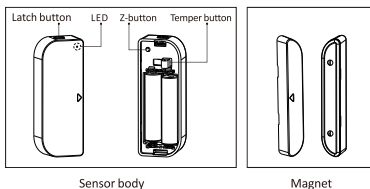
Door Window Sensor is a wireless reed sensor powered by AAA battery. It is used for detecting the opening or closing of doors, windows. It can communicate with an associated Z-Wave device, such as Siren, Smart Switch, etc.

The features list:

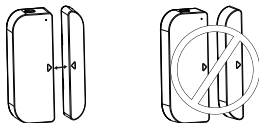
- (1) Z-Wave Plus certified for wide compatibility (500 serials products).
- (2) Door Window Sensor contains a sensor body and a magnet.
- (3) Door/window opening detected through the separation of the main body and the magnet.
- (4) Door/window closing detected through the combination of the main body and the magnet.
- (5) The longest effective distance between the sensor body and the magnet is 10MM.
- (6) The Sensor also possess the function of temper button, once the Sensor drops, it will send a report to the gateway.
- (7) The battery life is up to 1 year.
- (8) Support low battery alarm function.
- (9) Support firmware OTA.

I . GENERAL INFORMATION ABOUT DOOR WINDOW SENSOR

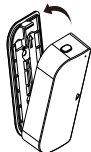
1. Product layout



- (4) Ensure that the orientation marks of the sensor body and the magnet are oriented towards each other.



- (5) Press the latch button, you can remove the cover from the sensor body. (Presented below figure)

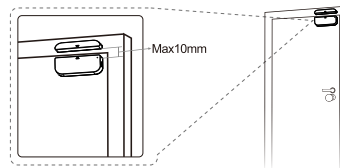


2. Specifications

Power supply:	Two AAA 1.5V Batteries
Storage environment:	-10℃~50℃ 0%~90%
Operational temperature:	0~40℃
Radio protocol:	Z-Wave
Radio frequency:	908.42MHz (US)
Range:	More than 150m outdoors About 40m indoors (depending on building materials)
Dimensions:	Main body: 75*28*18mm Magnet: 75*12*18mm
Working current:	About 60mA
Standby current:	About 30uA

II . INSTALLATION

- (1) The two parts of the Door Window Sensor should be placed in a manner such that when the door/window is closed, they are within 10MM from each other. By opening the door or window, Sensor body and magnet should separate in proximity.



V . RESET DOOR WINDOW SENSOR

Reset procedure clears the Door Window Sensor's memory, including Z-Wave network information.

To reset Door Window Sensor:
Press and hold the Z-button for more than 20 seconds, LED will be changed from solid to blink and then solid again, which means the resetting is successful.

VI . ASSOCIATION

Association allows Door Window Sensor to control another Z-Wave device such as Smart Switch, Smart Dimmer, etc.

Door Window Sensor supports two association groupings:
Group 1 reports the conditions of the Door Window Sensor, the battery level and the temper button status.
Group 2 is assigned to the Door Window Sensor sends BASIC SET command.



- TIP:**
1. The max number of associated nodes of all these 2 groups is 5.
 2. Association allows for direct transmission of control command between devices and takes place without the participation of the main controller.

VII . WAKE UP

Wake up interval:

Available settings: **0-2678400**

Default setting: **0**

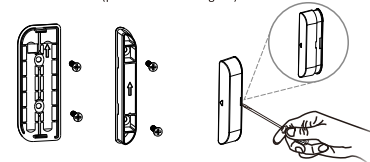
Defining a time period by which the Door Window Sensor sends a wake up notification command frame to communicate with the assigned device, update parameters, update software, detects battery level.
Wake up interval set to 0 disables the sending wake up notification command, in such configuration it is needed to manually wake the device up by pressing the z button, temper button, and removing the magnet.



NOTE:

1. Door Window Sensor should not be mounted directly on or near metal framing or other large metallic objects since metal objects may weaken the radio signal strength.
2. Door Window Sensor should only be placed indoors and away from water and other extreme weather conditions.

- (2) Screw the bidirectional mounting plate and magnet into the wall, door or window frame. Open the cover of the unit of the magnet with a screwdriver. (presented below figure)

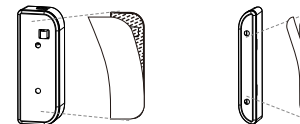


- (3) Attach the double-sided mounting tape to the covers and to adhere to the wall, door or window frame.



NOTE:

Wipe clean the surface where the Door Window Sensor will be mounted. Any dust and particles can reduce the adhesion of double-sided mounting tape.



NOTE:

1 minute is the unit of the interval time, which means Door Window Sensor will send wake up notification command by a timeline that is multiple to 1 minute. Such as the time 60 = 1 minute, 300 = 5 minutes.

VIII . ADVANCED CONFIGURATION

Door Window Sensor offers a wide variety of advanced configuration settings. Below parameters can be accessed from main controllers configuration interface.

Parameter No.14 Enable/Disable BASIC SET command
Door Window Sensor can send BASIC SET command to nodes associated with group 2.

0 – Disable.
1 – Enable.
Default setting: **0**
Parameter size: **1 [byte]**

Parameter No.15 Value of the BASIC SET
Door Window Sensor can reverse its value of BASIC SET when the magnet is triggered.

0 – Send BASIC SET VALUE = 255 to nodes associated with group 2 when door/window is opened.
Send BASIC SET VALUE = 0 to nodes associated with group 2 when door/window is closed.
1 – Send BASIC SET VALUE = 0 to nodes associated with group 2 when door/window is opened.
Send BASIC SET VALUE = 255 to nodes associated with group 2 when door/window is closed.

Default setting: **0**
Parameter size: **1 [byte]**

Parameter No.32 Level of low battery
This parameter defines a battery level as the "low battery".

Available settings: **10-50 (10% - 50%)**
Default setting: **20 (20%)**
Parameter size: **1 [byte]**

FCC Caution.

§ 15.19 Labelling requirements.

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.

§ 15.21 Changes or modification warning

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

§ 15.105 Information to the user.

Note: 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 or more 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.

*RF warning:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.