ECOLINK Zigbee 3.0 Door/Window Sensor DWZB1-CE

INTRODUCTION

Door/Window sensors are designed to secure the perimeter of the residential premise and provide the ability to add various automation services. The 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.

SPECIFICATIONS

Frequency: 2.4GHz
Battery Type: CR123A Battery
Operating Temperature: 0˚C – 50˚C (32°F – 122°F)
Storage Temperature: -20˚C – 60˚C (-4°F – 140°F)
Battery Life: 5 Years

Dimension:

Sensor: 70 x 21 x 22 mm (2.73" x 0.83" x 0.86")
Magnet: 30 x 10 x 11 mm (1.19" x 0.39" x 0.43")
Magnet Spacer: 30 x 10 x 6 mm (1.19" x 0.39" x 0.25")

PAIRING SENSOR

This Door/Window sensor needs to be paired before installation. Scanning the QR Code is preferred for pairing with some security system and home controller applications. Note the MAC address can be found by scanning the QR code.

1. Pull the exposed plastic tab from the sensor. (Figure 1)
2. The LED indicator will be lit for three (3) seconds to indicate a successful booting.
3. It will blink three times approximately every 2 – 3 seconds while scanning the network.
4. If network is not found after 3 minutes, the sensor will go into sleep mode. To wake the sensor again, you need to use magnet or tamper (Figure 3) to trigger a paring process, and then sensor will repeat steps from 3 to 4.

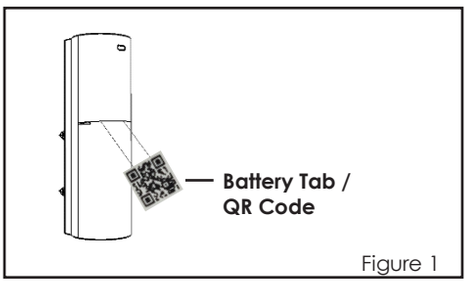

Figure 1

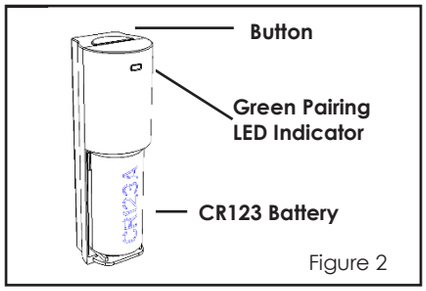

Figure 2

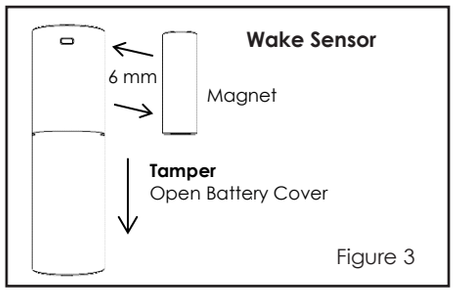

Figure 3

INSTALLATION

1. Please make sure that the sensor and magnet is located less than 6 mm (0.25 inch) from each other (Figure 4). 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, rotate if necessary. 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/window frame. Press firmly and hold in place for a few seconds (Figure 5). Secure it with silicone if needed. For mounting with screws, please use the screw holes located in the battery compartment. (Figure 5)
3. Spacers are used to raise the level of the magnet to be level/closer to sensor. The spacers are 6.5 mm (¼") thick. If needed, install spacers as shown in Figure 6.
4. Use provided double-sided tape on the magnet. Make sure the alignment of both sensor and magnet is correct. The magnet aligns from the top of the sensor case near the button and LED (Figure 4). Press firmly and hold in place for a few seconds. If the spacer is used, it can be mounted to the door using screws and/or double-sided tape before attaching the magnet. Secure tape-mounted parts with silicone if needed.

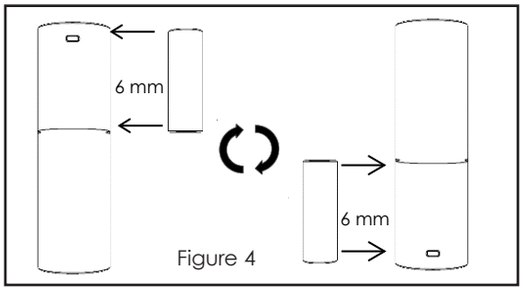

Figure 4

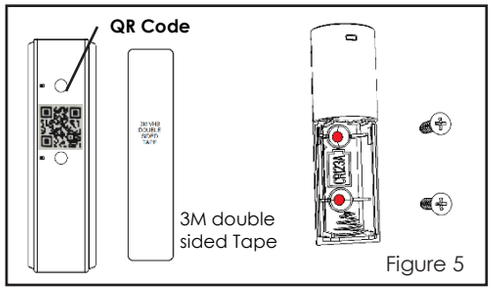

Figure 5

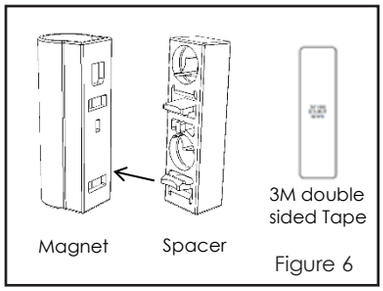

Figure 6

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 or security system.
3. A separation gap of 32 mm (1.25") to 50 mm (2") between the sensor and the magnet will report open/close events to your security system or home controller during normal operation.

RESET TO FACTORY DEFAULTS & REBOOT

If sensor needs to be factory defaulted (for example, to prepare it for joining with a home controller or security system).

1. Depress the top button for five (5) seconds. The sensor should begin rapidly blinking the LED.
2. After holding the button for five seconds the LED will turn on solid for approximately two (2) seconds to confirm the reset function. Release the Button.

The sensor should then leave the current paired network, reset to factory default settings, and begin searching for any available home controller or security system. The LED behavior will match that described in the Pairing section.

NOTE: If you need to reboot the device, remove the battery for at least 5 seconds, then re-insert the battery.

NOTE: Replace Battery with Panasonic CR123A or Sony CR123A only. Use of another battery may negatively impact the performance of the product.

TROUBLESHOOTING

If device has trouble with pairing to the home controller or security system:

1. Separate the sensor and magnet or trigger tamper. The sensor will re-attempt to pair.
2. If device continues to have trouble pairing, remove the battery for 5 seconds and then re-insert it.
3. If device continues to have trouble pairing, use “Reset to Factory Defaults” procedure to attempt pairing again.

If device was communicating with the home controller or security system but is no longer communicating:

1. Move the device to a location closer to the controller. Separate and close the magnet or trigger tamper from the sensor. If the controller successfully shows the sensor's status, then install a repeater so the system's range can reach the desired location for the sensor.
2. If the device has been in use for months or years and the failure is sudden, check the controller to see if the device has a low battery. Follow the instructions provided to replace the battery.

FCC COMPLIANCE STATEMENT

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.

This equipment has been tested and found to comply with the limits for Class B digital devices, 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 instruction manual, 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:

- Re-orient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a different circuit from the receiver
- Consult the dealer or an experienced radio/TV contractor for help

WARNING: Changes or modifications not expressly approved by Ecolink Intelligent Technology Inc. could void the user's authority to operate the equipment.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

C'et appareil est conforme la norme d'Industrie Canada exempts de licence RSS. Son fonctionnement est soumis aux deux conditions suivantes: (1) c'et appareil ne peut pas provoquer d'interférences, et (2) c'et appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de la dispositif.

FCC ID: MG3-DWZB1-CE IC: 2575A-DWZB1CE

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