Door/Window Sensor Installation Guide

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.

Specification

Frequency	2.4GHz
Battery Type	CR2 Battery, Jauch P/N - 245718
Operating Temperature	0° C to 50° C (32°F - 122°F)
Storage Temperature	-20° C to 60° C (-4°F - 140°F)
Battery Life	5 Years
Dimension	Sensor Device: 80.4mm x 23.1mm x 23.2mm (3.17" x 0.91" x 0.91") Magnet: 35.1mm x 12.3mm x 13.4mm (1.38" x 0.48" x 0.53") Spacer: 3mm and 6mm (0.12" & 0.24")

Pairing Sensor

The Door/Window sensor needs to be paired before installation.

1. While next to the home controller or security system slide the top cover open to expose the battery pull tab, pull the plastic tab to activate the sensor, slide the top cover to the closed position, Figure 1.

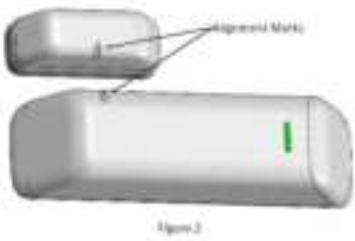
2. The LED indicator will be lit green for two seconds while the device is booting.
3. Once booted the LED will blink green three times every 5 seconds while scanning for a network.
4. If network is not found after 10 minutes, the sensor will go into sleep mode. To restart the pairing process, tamper the sensor by sliding the battery cover open and then closed or create a zone event by placing the magnet near the sensor and then move it more than 3” away from the sensor.
5. Once the device has successfully paired to the home controller or security system it is ready for installation, follow the steps in the installation section.

Installation

1. Once paired the LED will blink either a red, green, or amber color providing a visual indicator of the communication performance with the home controller or security system. Move the sensor to the intended location of installation. If the LED is slowly blinking green you have good communication with the home controller or security system and can proceed with the remainder of the installation process. Double blinking amber indicates the sensor can communicate, however, look at improving the communication by alternating the location of the sensor on the door or window. Fast blinking red indicates the sensor cannot be installed at this location.

   Note: The LED will illuminate for 3 minutes after the initial pairing process, if additional time is needed to position the sensor slide to the top cover open and then closed and the LED will illuminate for an additional 30 seconds.
2. Please make sure that the sensor and magnet is located less than 0.25 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/window close to the opening edge of the door/window. When

mounting the sensor and magnet ensure the marks on the sensor and magnet are aligned (Figure 2). The LED on the sensor should be positioned at the top when possible. Ensure you have space to slide open the battery door when positioning the sensor.



3. Peel the paper off one side of the double-sided tape provided, attach to the back of the sensor and press firmly for a few seconds. Peel the paper off the back of the sensor, position the sensor to the door/window fixed frame, be sure to position the sensor in the location you have verified to provide good communication with the home controller or security system, press firmly for a few seconds.
4. When mounting the magnet add spacers as necessary to ensure the back of sensor and magnet are on the same horizontal plane. Peel the paper off one side of the double-sided tape provided, attach to the back of the magnet or spacer and press firmly for a few seconds. Peel the paper off the back of the magnet or spacer, align the magnet to the sensor and press firmly for a few seconds.

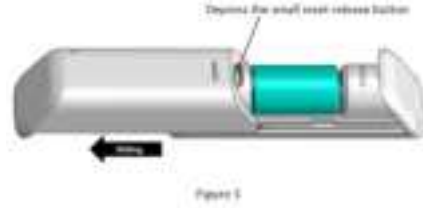
Operation

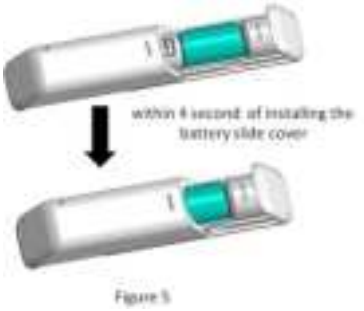
1. The LED on the sensor will remain off during the normal operation.
2. The sensor is equipped with a tamper switch. Sliding the battery cover to the open position will cause a trouble fault on the home controller or security system. Sliding the cover open will also activate the communication test for 30 seconds. Refer to the Installation section for details on this feature. Once battery cover is closed the trouble will clear.

Reset to Factory Defaults & Reboot

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

1. Enter the home controller or security system and use the device menus to delete the sensor that requires a factory reset.
2. Slide the battery cover to expose the battery and the reset release button, Figure 3.
3. Depress the small reset release button while continuing to the slide the battery cover until you expose the red reset text. You may need to use a small screwdriver or paper clip to press the release button as shown in Figure 4.
4. Remove the battery, wait 10 seconds and then re-insert the battery.
5. Once the battery is installed slide the battery cover such that the reset button is no longer exposed but such that the cover is not completely closed, Figure 5. **Note:** You must perform this operation within 4 seconds of installing the battery.





6. The factory reset process will take approximately 1 minute, during this time the LED will remain solid green, if the LED does not remain solid green this mean you did not release the reset in less than 4 seconds and must repeat steps 1 thru 4.
7. Upon completion of the factory reset the LED will blink green three times every 5 seconds indicating it's ready to be paired.

Replacing The Battery

If the home controller or security system indicates the battery is low, the battery must be replaced.

1. Purchase a CR2 Battery.
2. Once you have received the CR2 battery, slide the battery cover to expose the battery as shown in Figure 6, remove the old battery, wait 10 seconds and install the new one.
3. Once the battery is installed slide the battery cover to close the device. The LED will illuminate green for 2 seconds and will automatically reconnect to home controller or security system and return to normal operation.

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4. If the LED remains green or blinks 3 times every 5 seconds, it's an indication that the device is having trouble connecting to the home controller or security system. To resolve this state, remove the battery for 10 seconds, then re-insert the battery, and slide the battery cover to close the device.

Troubleshooting

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

1. Open, then close the battery cover to trigger a tamper and re-start the pairing process.
2. If device continues to have trouble pairing, remove the battery for 10 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 the device was communicating with the home controller or security system but is no longer communicating, try the following steps:

1. 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 for replacing the battery.
2. Perform a Factory Reset and then Re-pair the sensor as indicated in the steps above.
3. Trigger a tamper by opening and closing the battery cover, if the LED is blinking RED it's an indication that your sensor can no longer communicate with the home controller or security system due to changes in your RF environment. Install a repeater so the system's range can reach the desired location for the sensor.

Certification

Product name: Door Window sensor
Model: LDHD2AZW
Responsible Party – U.S. Contact Information
Leedarson America, Inc.
300 Technology Court, Suite 100
Smyrna, GA 30082
Website: iot.leedarson.com
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 Compliance 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 2AB2QLDHD2AZW.
You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.
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.

UL Statement: This device conforms to ANSI/UL STD 634