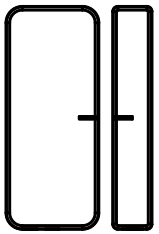
ENERWAVE®

INSTALLATION INSTRUCTIONS

ZWN-BDS

Z-Wave Magnetic Door/Window Sensor



◆ SPECIFICATIONS

Power Supply.....CR2 battery ×1pcs
Operation Gap.....Up to 1/2 inch
Operation Temperature.....32-104°F
RF Range.....Up to 100 feet line of sight
Z-Wave Frequency..... 908.42MHz

◆ FEATURE

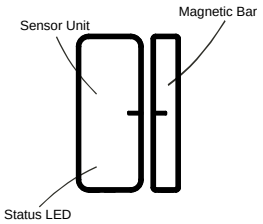
- Battery-powered Z-Wave device for easy installation
- Provide Open/Close status to monitor door or window
- Battery life approximately 1 year and Low battery detection
- Support Z-Wave associations, sending commands up to 5 associated Z-Wave devices
- For indoor use only

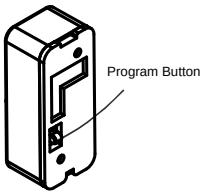
◆ DESCRIPTION

The ZWN-BDS is a battery-powered and magnetic contact sensor that wirelessly controls lights and appliances throughout your house. When magnetic contact is broken, such as a door or window being opened, the ZWN-BDS transmits Open/Close status to the gateway and can do things like turning on lights, setting the thermostat to a comfortable setting and notify you when the door or window is opened and the sensor is armed.

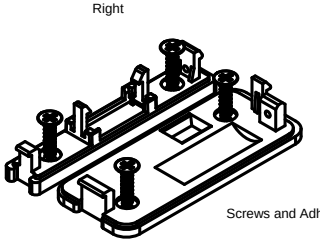
◆ INSTALLATION

1. The Door/Window Sensor consists of two parts: Sensor Unit and Magnetic Bar.
2. Insert one CR2 battery to the Sensor Unit (noting the proper orientation).
3. Place Both Sensor Unit and Magnetic Unit by using screws and/or adhesive pad.
4. The Sensor Unit and Magnetic Bar can be mounted vertically or horizontally. It is recommended to mount the Sensor Unit to Door/Window frame and Magnetic Bar to the Door/Window, no more than 1/2 inch apart. Ideally, the Door/Window frame should be wooden because of metal surface could sometime cause signal interference.

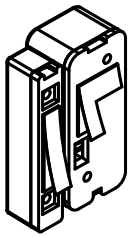


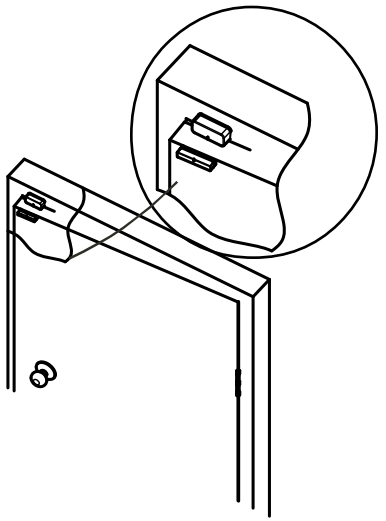


Right



Screws and Adhesive Pad Mounting





◆ OPERATION

Adding to Z-Wave network

At the back of Door/Window Sensor, there is a program button which is used to do adding/deleting and association. Also it can be used as a tamper alarm button, and wake up Door/Window sensor manually.

Adding

1. Set a Z-Wave controller into adding mode.
2. Press and release the program button located at the back of Door/Window sensor to add it into your Z-Wave network and send Node Information Frame.
3. Status LED will stay solid for 10 seconds and turn off when succeeds.
4. If the LED never light on and adding mode times out, then repeat the adding process again and delete it if necessary.

Deleting

1. Set a Z-Wave controller into deleting mode.
2. Press and release the program button located at the back of Door/Window sensor to delete it into your Z-Wave network and remove Node Information Frame.
3. Status LED will blink 3 times after press the program button, that means it is not in any Z-Wave network.

Association

To complete Z-Wave association, please refer to your controller's manual. Each controller has its own association method. If your controller needs sensor to wake up, please press and hold the program button for 2 seconds, release the button when status LED turns off, the ZWN-BDS will wake up manually.

Note: If the Door/Window sensor is not added in Z-Wave network, status LED will blink three times when power applied or program button pressed.

◆ ADVANCED FEATURE

Wakeup command class

The Door/Window sensor will send a wakeup notification command if it has been added into a Z-Wave network. The Door/Window Sensor will wake up periodically(default is 30 minutes) as desired depending on time interval you set from wakeup command class and resend the wakeup notification command unless configured for another time interval. The Door/Window sensor will stay awake for 10 seconds and then go back to sleep to conserve battery life. If the Door/Window sensor hasn't been added to any network, it stays awake only for 1 second. It will also go to sleep when receives command WAKE_UP _NO_ MORE_NOTIFICATION_V2. The Door/Window Sensor can be woken up manually: press and hold the program button for one second, when release the button it will send broadcast wakeup notification or singlecast wakeup notification to associated devices.

Specification for WAKE_UP_INTERVAL_SET_V2:
0x0000F0 Minimum value (Equal to 240 seconds)
0x015180 Maximum value (Equal to 68400 seconds, or 24 hours)
0x000708 Default value (Equal to 1800 seconds, or 30 minutes)
0x000000-0x0000EF, 0x015181-0xFFFFFF, these values will be ignored.

Battery command class

ZWN-BDS will check the battery power level every day and report the battery level by sending broadcast BATTERY_REPORT. When battery level goes down to 1%, it will send broadcast low power warning command (BATTERY_REPORT, value 0xFF). User needs to replace a new battery.

Association command class

ZWN-BDS can control devices by using this command class and COMMAND_CLASS_BASIC. If a device is associated by ZWN-BDS, the Door/Window Sensor will be triggered each time it monitors open or close. ZWN-BDS only supports one group with 5 nodes association.

◆ TROUBLESHOOTING

Cannot carry out adding, deleting or association.

1. Check to see if the battery is running out.
2. Make sure the battery is in right place.
3. Check if the wireless distance is too far.

Cannot control the connected modules

1. Check to see if the battery is running out.
2. Check if the wireless distance is too far.

◆ WARRANTY INFORMATION

Our company warranties this product to be free of defects in materials and workmanship for a period of two(2) years. There are no obligations or liabilities on the part of our company for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.

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