

INSTALLING Z-WAVE DEVICES

INSTALLATION

INSTRUCTIONS

LOCATIONS

Installation of Z-Wave devices instantly increases the functionality, efficiency, and value of your home. The more devices you install, the more efficient your house will be. The most effective locations to install Z-Wave devices are in the Living Room, Bedrooms, Kitchens, Family Rooms, Guest Rooms, and Entertainment Rooms.

This device complies with the Z-Wave standard of open-air, line of sight transmission distances of 100 feet. Actual performance in a home depends on the numbers of walls between the remote controller and the destination device, the type of construction and the number of Z-Wave enabled devices installed in the control network. Z-Wave devices act as signal repeaters ONLY after they are "Included" on the network. This device's signal repeater is disabled, however uses repeated signals from other Z-Wave devices to increase its signal range.

DESCRIPTION

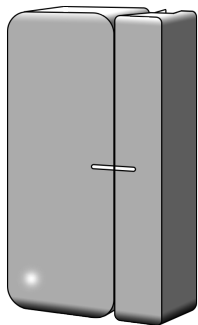
The **ZWN-BDS-PLUS** is a Door/ Window Sensor with Z-Wave technology. This sensor can be used to turn on devices that are connected to the same Z-Wave network. For the advanced users, the functions are programmable for setting scenes, associations and scheduling events. The sensor can be programmed to turn on lights, run the thermostat, and notify operator(s) of an open door/ window or armed sensor.

FEATURES

- No wiring required. Battery operated.
- Remotely control of any load connected to a Z-Wave device on the network.
- Reduce energy consumption and enjoy wireless home automation.
- Supports Z-Wave associations, sending commands up to 5 associated Z-Wave devices
- Low Battery warning.

REQUIREMENTS

Z-Wave devices require a connection to a compatible hub. Once the device is properly added to the hub, it can be managed and customized to your needs. Please visit www.enerwaveautomation.com for a list of compatible hubs.



SPECIFICATIONS

Power Supply.....	1 Lithium CR2 3V Battery
Z-Wave Frequency.....	908.42 MHz
Operating Temperature.....	32-104° F

WARNING:

Read and understand these instructions before installing. Exercise extreme caution when using Z-Wave devices to control appliances. Operation of the Z-Wave device may be in a different room than the controlled appliance so an unintentional activation may occur if the wrong button on the remote is pressed. Z-Wave devices can be automatically powered on by programmed events. Unattended or unintentional operation could result in hazardous conditions. Z-Wave enabled devices should never be used to supply power to, control, or monitor medical and/or life support equipment.

NEW Z-WAVE 500 SERIES FEATURES

- Three RF channels for improved noise immunity and higher bandwidth
- New Plug-n-Play Network-wide Inclusion feature
- Improved self-healing and fault tolerance with Explorer Frame feature
- Standardized method for Over the Air firmware updates (OTA)
- Improved product information capture for product certification database
- 50% improvement in battery life
- 67% improvement in range
- 250% more bandwidth
- Fully backward compatible

FCC COMPLIANCE STATEMENT

FCC Grant of Equipment Authorizations of this device and transmitters installed in this device can be found at FCC website by entering the FCC ID number on the device.

Caution: Changes or modifications not expressly approved by the part responsible for compliance could void the user's right 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 of the device.

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:

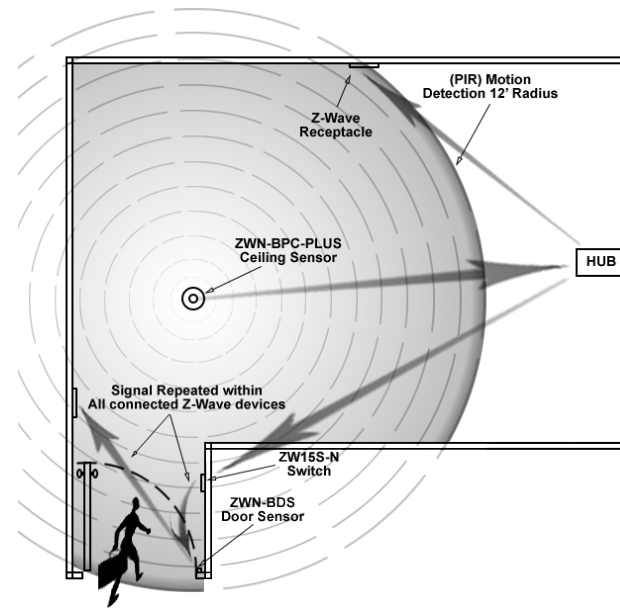
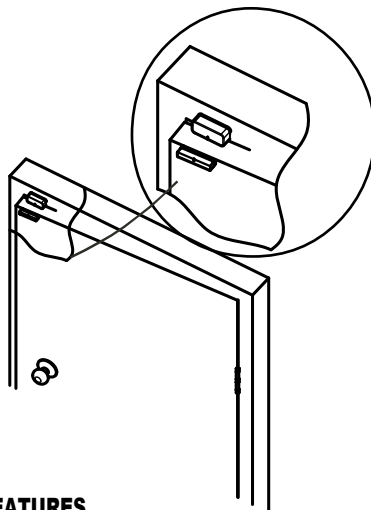
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARRANTY INFORMATION

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This device is warranted to be free of material and workmanship defects for 2 years from the date of purchase. Original receipt or proof of purchase from an authorized retailer must be presented upon warranty claim. ALL claims must be verified and approved by Enerwave, Inc. Warranties from other Enerwave products may vary. This warranty is nontransferable and does not cover normal wear and tear or any malfunction, failure, or defect resulting from misuse, abuse, neglect, alteration, modification, or improper installation. To the fullest extent permitted by the applicable state law, Enerwave shall not be liable to the purchaser or end user customer of Enerwave products for direct, indirect, incidental, or consequential damages even if Enerwave has been advised of the possibility of such damages. Enerwave's total liability under this or any other warranty, express or implied, is limited to repair, replacement or refund. Repair, replacement or refund are the sole and exclusive remedies for breach of warranty or any other legal theory.



Model: ZWN-BDS-PLUS

Wireless Home Automation Control Device

Ceiling mounted PIR Motion Sensor

PROGRAMMING

MOUNTING THE SENSOR

When mounting the Sensor and the Magnet, be sure that the Markers on the front are aligned and the gap between the two should be no more than 1/2".

DEVICE INCLUSION/ EXCLUSION

The process of "Inclusion/ Exclusion" is to Add or Remove the device from the Hub. All Z-Wave devices must be "Included" on the Controller (Hub) before it can be controlled from a smart device. The Hub should be brought physically closer to the device just for the "Inclusion" process (**recommended within 10ft**). When finished, the Hub and device can be moved back to final installation locations. Download the App or log onto the website associated with the Hub you are using and follow their Inclusion/ Exclusion instructions as each Hub's programming and features are different.

- During the Inclusion/ Exclusion process, the Sensor must be removed from its mounting bracket in order to reach the Inclusion/ Exclusion button on the back of the device.
- It is best to perform an EXCLUSION of the device prior to performing an Inclusion.

Step 1. From the Control Panel, go to the device Exclusion page.

- Select "Exclude Device".
- When prompted, press the exclusion button on the sensor 3 times.

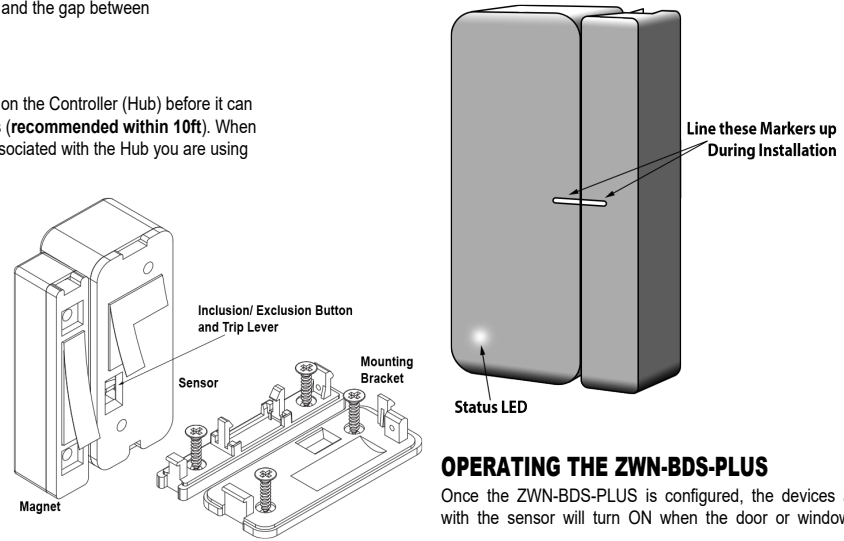
Step 2. Go to the "Add Device" page.

- Select "Include Device".
- When prompted, press the inclusion button on the sensor 3 times.

The primary controller should indicate that the action was successful. If the controller indicates the action was unsuccessful, please repeat from Step 1. Once the module is part of the network, the same basic procedure is used to add the switch to groups & scenes or change advanced functions. Refer to the primary controller's instructions for details.

Step 3. Follow the On-Screen instructions in the Control Panel on adding or removing rooms, scenes, other devices, and other functions and features. **Be sure to Associate the ZWN-BDS-PLUS with All the devices to be operated with the sensor.**

Step 4. To reset the ZWN-BDS-PLUS, simply press the exclusion button on the sensor 3 times and hold for 3 seconds on the 3rd press.



OPERATING THE ZWN-BDS-PLUS

Once the ZWN-BDS-PLUS is configured, the devices associated with the sensor will turn ON when the door or window is opened.

ADVANCED PROGRAMMING

WARNING: Advanced programming is recommended ONLY for experienced programmers. The ZWN-BDS-PLUS has customizable features/functions that require writing codes. Changes to code may cause device to function improperly or to not function at all. **The following parameters require that you have an advanced controller. Basic remotes do not have this capability.**

Wakeup command class

The sensor will send a wakeup notification command if it has been added to a Z-Wave network. The sensor will wake up periodically (default is 30 minutes) depending on the time interval you set from wakeup command class. The sensor will stay awake for 10 seconds and then go back to sleep to conserve battery life. It will also go to sleep when it receives the command WAKEUP_NO_MORE_NOTIFICATION.

Specification for WAKEUP_INTERVAL_SET:

- 0x00003C Minimum value (Equal to 60 seconds)
- 0x015180 Maximum value (Equal to 68400 seconds, or 24 hours)
- 0x00012C Default value (Equal to 300 seconds, or 5 minutes)
- 0x000000-0x00003B, 0x015181-0xFFFF, these values will be ignored.

The door/ window sensor can be woken up manually: press and hold the Inclusion/ Exclusion button for one second and release. The sensor will send broadcast wakeup notification or single-cast wakeup notification to associated devices.

For some controllers, after configuration and association setting, it's necessary to wake up the ZWN-BDS-PLUS manually by pressing the Inclusion/ Exclusion button.

Battery command class

ZWN-BDS will check the battery power level every day and report the battery level by sending singlecast BATTERY_REPORT. When battery level is greater than 2.8V, it will send singlecast command (BATTERY_REPORT, value 0x64). Or else when battery level is greater than 2.6V, it will send singlecast command (BATTERY_REPORT, value 0x10). Or else when battery level is greater than 2.4V, it will send singlecast command (BATTERY_REPORT, value 0x00). Or else when battery level is less than 2.4V, it will send singlecast command (BATTERY_REPORT, value 0xFF). User needs to replace new batteries.

V1 Alarm Type	0x00
V1 Alarm Level	0x00
Notification Type	0x06
Event	0x16 door/ window is opened
	0x17 door / window is closed
Notification Type	0x07
Event	0x03

Association

Grouping ID	Max number of nodes	Description
1	1	1. Battery Repo Lifeline: 2. Notification Repo 3. Device Reset Local Notification
2	5	Sensor Basic rep: Basic Report
3	5	Sensor Notifi rep: Notification Report

ZWN-BDS-PLUS