Aeon Labs Door/Window Sensor

(Z-Wave Magnetic Door/Window Contact Sensor)
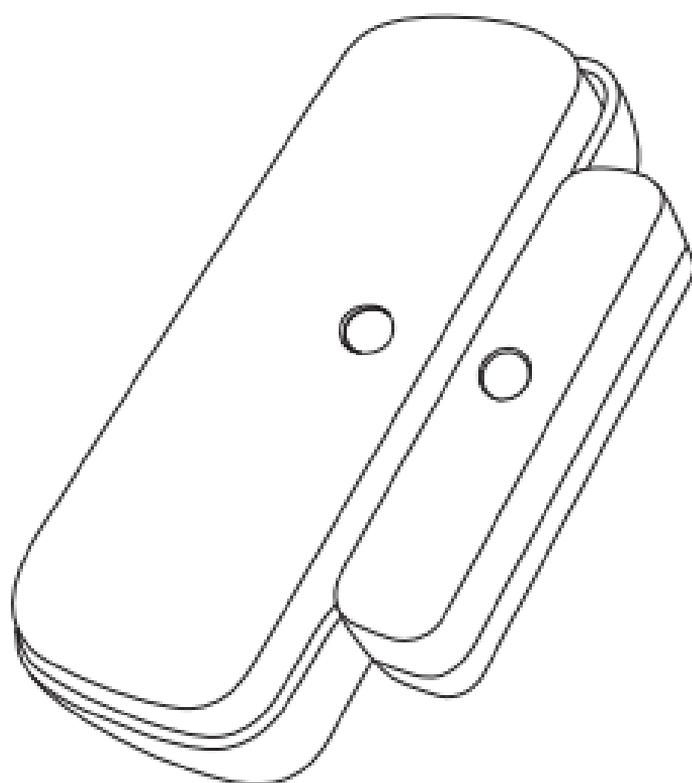
Introduction:

The Aeon Labs D/W Sensor is a battery-powered Z-Wave magnetic door/window contact sensor. The D/W sensor will send radio signals to up to 6 associated Z-Wave devices within its own Z-Wave network when the main unit separates from the smaller magnetic unit. Bidirectional mounting plate and push button allows for easy end-user installation. The Aeon Labs D/W Sensor also has tamper prevention and low-battery alerts.

By taking advantage of the Z-Wave mesh network, commands can be routed to their destination via intermediatary "listening" Z-Wave products. Products that are Z-Wave certified can be used and communicate with other Z-Wave certified devices.

Important Disclaimers:

This product uses radio to wirelessly communicate data between itself and other devices. Radio communication is inherently not always 100% reliable, and as such, this product should not be used in situations in which life and/or valuables are solely dependant on its function.

What's Included:

• Sensor Unit – 1x
• Bidirectional Mounting Plate – 1x
• Magnet Unit – 1x
• Magnet Unit Outer Shell – 1x
• CR2 Battery – 1x
• Double-Sided Mounting Tape – 6x
• Screws – 4x
• Screw Anchors – 4x

CR2 Battery

Screw Anchor

Screw

Double-Sided Mounting Tape

Sensor Unit

Magnet Unit

Bidirectional Mounting Plate

Magnet Unit Outer Shell
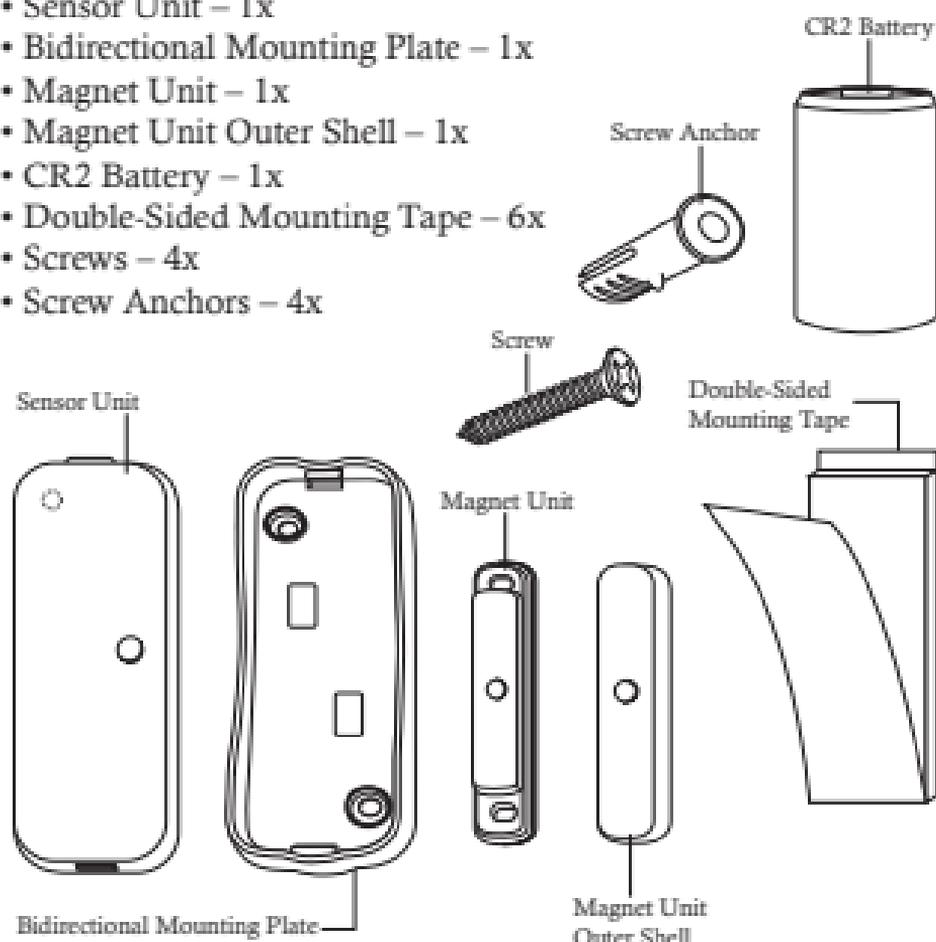
Anatomy of the Aeon Labs Door/Window Sensor:

LED   Latch Button   Orientation Dimples

Magnet Unit

Magnet Unit Outer Shell

Hitch Hole   Security Tamper Switch Hole   Hitch   Screw Holes

Double-Sided Mounting Tape Sticking Area

Battery Holder   Security Tamper Switch (Z-Wave Inclusion Button)
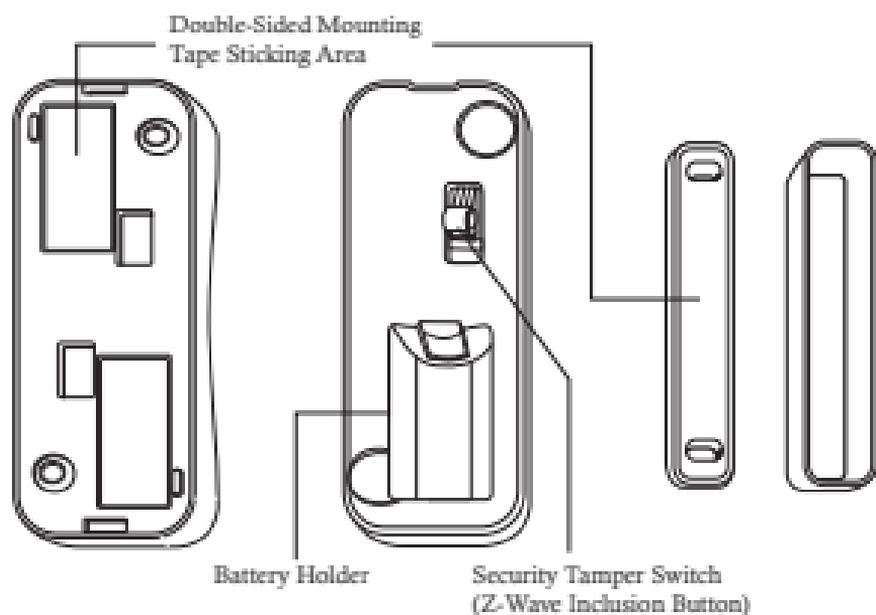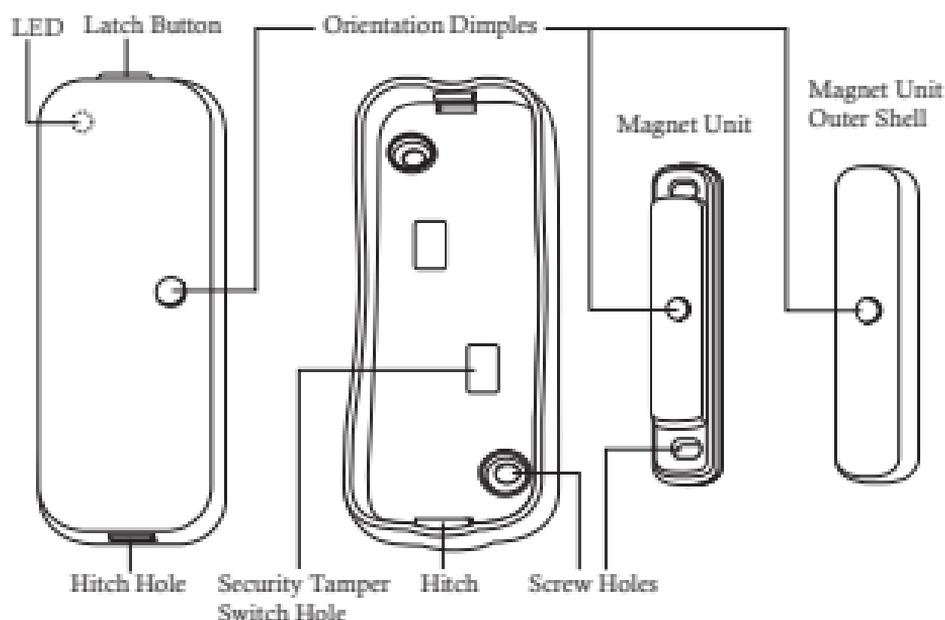
1. Mounting the Aeon Labs D/W Sensor to a Wall, Door, or Window Frame

1.1 The main sensor unit and magnet should be placed in a manner such that when the door/window is closed, they are within 2cm. from each other. By opening the door or window, these two units should separate in proximity.
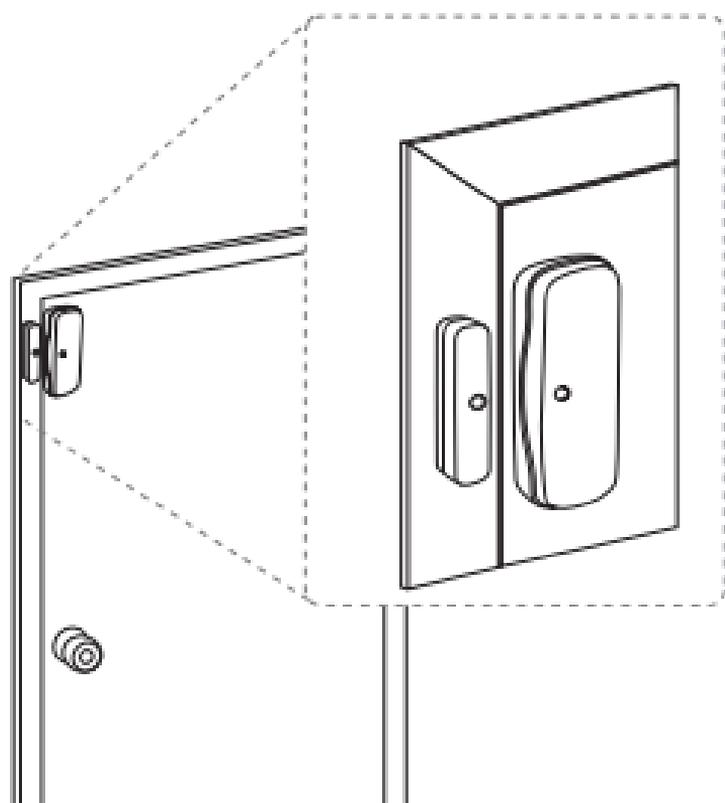
Note: The Aeon Labs D/W Sensor should be positioned vertically against the door/window frame. This provides the optimal radio communication distance to other Z-Wave devices in a typical home.

Note: Radio products should not be mounted directly on or near metal framing or other large metallic objects. Large metal objects may weaken the radio signal transmitted.

Note: This product should only be placed indoors and away from sources of water/moisture and other extreme weather conditions.

1.2 Screw the bidirectional mounting plate and the magnet unit into the wall, door or window frame. Use the provided screw anchors if attaching the Aeon Labs D/W Sensor to a soft material (such as drywall).
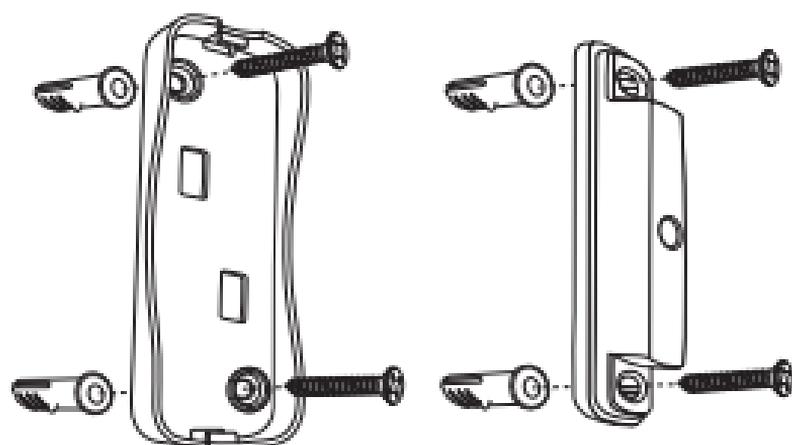
AND/OR

Peel and attach the double-sided mounting tape to the back of the bidirectional mounting plate and magnet unit to adhere to the wall, door or window frame.

Note: Be sure to wipe clean the surface where the Aeon Labs D/W Sensor will be mounted. Any dust and particles can reduce the adhesion of double-sided mounting tape.
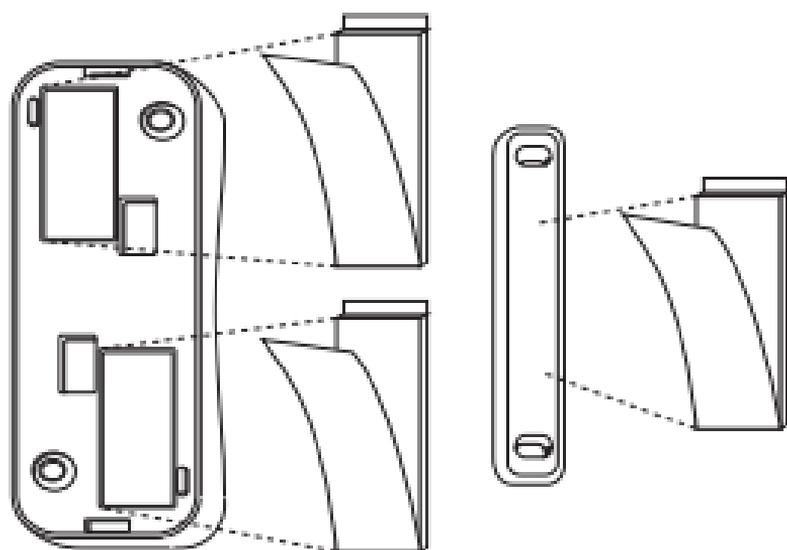
1.3 Hook the sensor into the bidirectional mounting plate by first inserting the hitch of the bidirectional mounting plate into the hitch hole of the sensor. Then press the other end of the sensor into the bidirectional mounting plate until the units firmly click together.
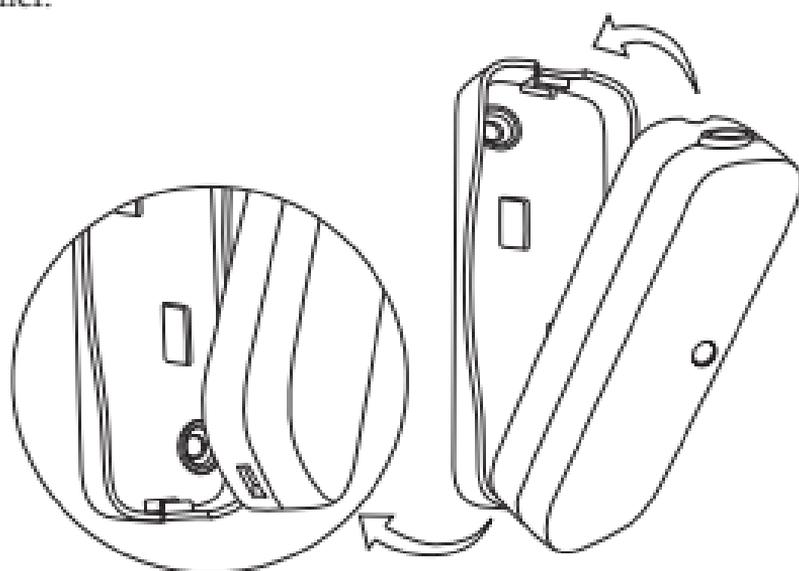
1.4 Ensure that the orientation dimples of the sensor unit and the magnet unit are oriented towards each other. If they are not, simply unhinge the sensor unit by depressing the latch button (on the side) to separate the sensor from its bidirectional mount and reinsert the sensor unit with it's orientation dimple towards the magnet unit.

CORRECT   WRONG
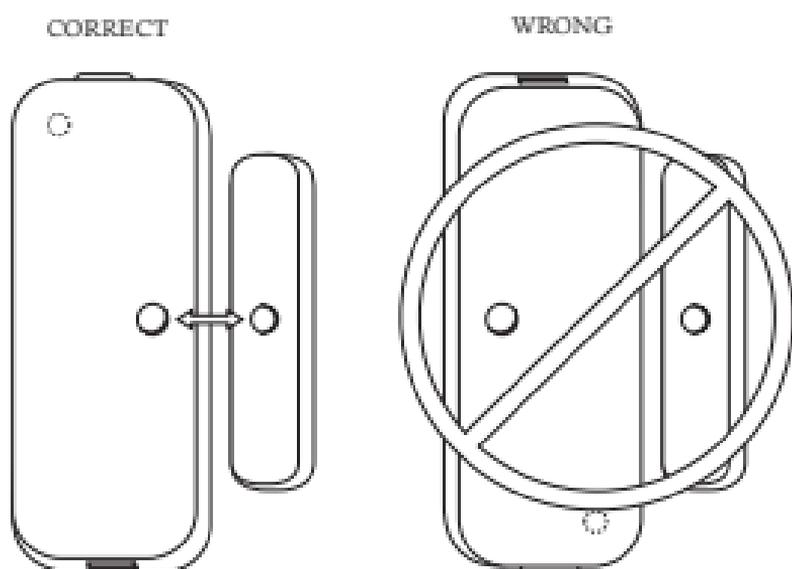
2. Including the Aeon D/W Sensor into the Z-Wave Network

The Aeon Labs D/W Sensor must first be included into an existing Z-Wave network in order to function. After being included to a Z-Wave network, the Aeon Labs D/W Sensor will then be able to report it's open/close state to gateway automatically or control other Z-Wave devices such as lamps.

2.1 Press the button on the Aeon Labs Z-Stick to begin the Z-Wave inclusion process.

OR
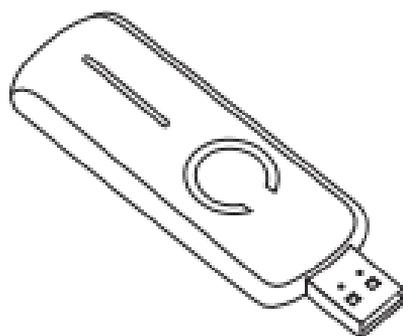
Press the button labeled "Include" on the Aeon Labs Minimote to begin the Z-Wave inclusion process.

Note: To include the Aeon Labs D/W Sensor with other controllers, please consult the operation manual for these controllers on how to include Z-Wave products into an existing network. For instructions on select partner gateways, visit www.aeon-labs.com/support.
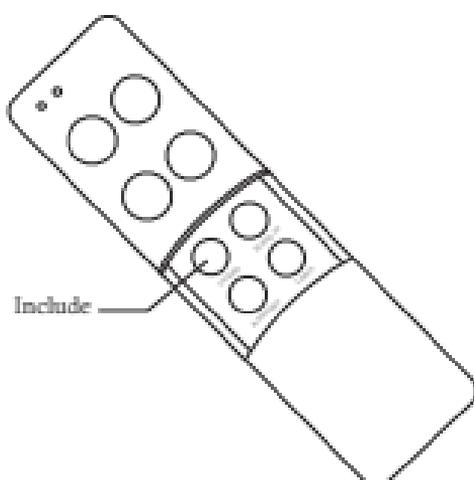
Include

2.2 Press the security tamper switch located at the back of the Aeon Labs D/Window Sensor to include it into your Z-Wave network.
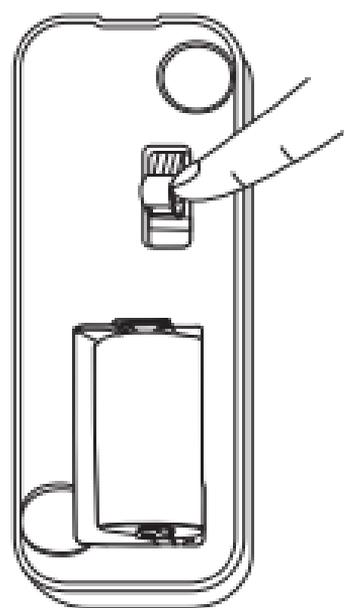
2.3 The Aeon Labs D/W Sensor will now stay awake for 10 minutes to receive any other network instructions from your gateway or controller – The LED on the Aeon D/W Sensor will be blinking while awake.
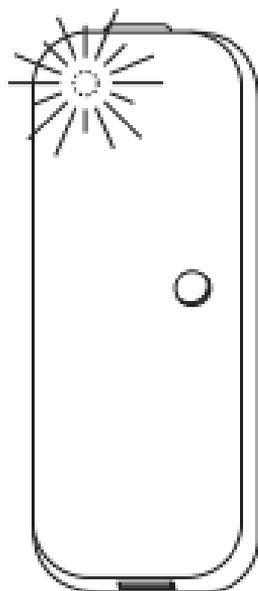
Note: The Aeon Labs D/W Sensor can only be taught to communicate to devices within it's own network.

Troubleshooting: If the Aeon Labs D/W Sensor was not included into any Z-Wave network, pressing the security switch will illuminate the LED on the front of the Aeon Labs D/W Sensor solid red for 5 seconds. If the Aeon Labs D/W Sensor was successfully included to a Z-Wave network, the LED will blink instead of staying solid.

3. Wake the Aeon Labs D/W Sensor for 10 Minutes

The Aeon Labs D/W Sensor can be made to stay awake for 10 minutes by any of the following methods below. Once the Aeon Labs D/W Sensor has been woken, the LED will blink every few seconds indicating that it is now awake and ready to receive Z-Wave network information and instructions.

3.1 Firmly tap the security switch on the back of the Aeon Labs D/W Sensor 3 times in quick succession.
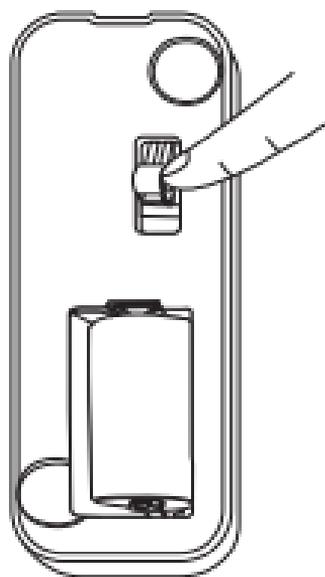
3.2 Successfully include the Aeon Labs D/W Sensor into any Z-Wave network.

4. Put the Aeon Labs D/W Sensor to Sleep After Being Included into a Z-Wave Network

The Aeon Labs D/W Sensor may be put to sleep by any of the following methods below. Once the Aeon Labs D/W Sensor has been put to sleep, the LED will no longer blink indicating that it is now asleep and saving battery life.

4.1 Firmly tap the security switch on the back of the Aeon Labs D/W Sensor 3 times in quick succession.
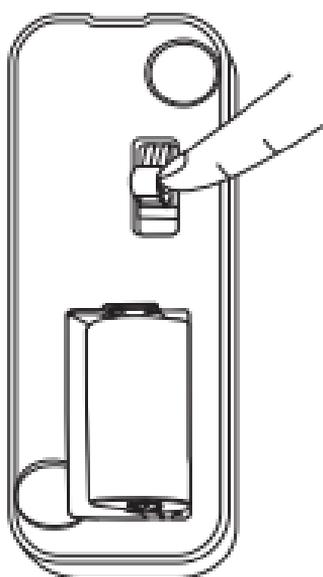
4.2 Trigger the Aeon Labs D/W Sensor with the magnetic unit 3 times in quick succession.
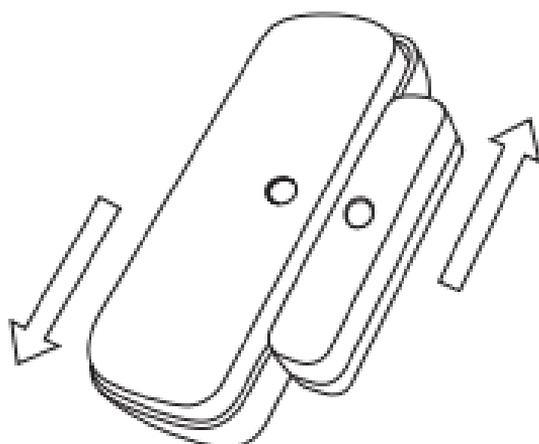
4.3 Send a Z-Wave sleep command (Z-Wave Wake Up Command Class) from your controller/gateway to the Aeon Labs D/W Sensor.

5. Associating Z-Wave Lights/Switches/ Gateways to the Aeon Labs D/W Sensor

By associating the Aeon Labs D/W Sensor to Z-Wave devices, it will be able to report it's state to gateways, execute scenes through the associated gateways and turn on/off associated Z-Wave devices when it is triggered with its magnetic switch.

Note: If your Z-Wave gateway is a SUC/SIS type, there is no need to follow the association process below to associate the Aeon Labs D/W Sensor to your gateway. The Aeon Labs D/W Sensor will do this automatically.

5.1 Press the button labeled "Associate" on the Aeon Labs Minimote to begin the Z-Wave association process.
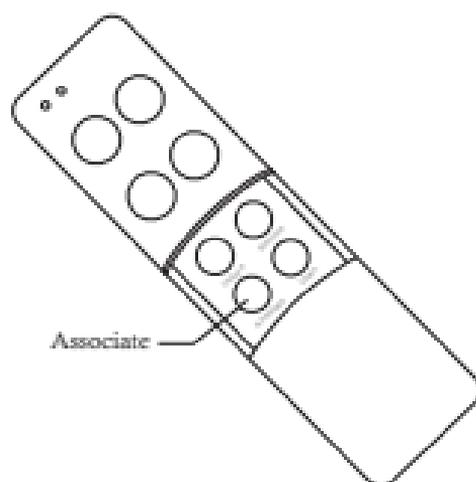
Associate

Note: To associate a Z-Wave device to the Aeon Labs D/W Sensor using other controllers, please consult the operation manual for these controllers on how to associate Z-Wave products to the Aeon Labs D/W Sensor. For instructions on select partner gateways, visit www.aeon-labs.com/support.

5.2 Press the Z-Wave button on the product you wish to be controlled by the Aeon Labs D/W Sensor when triggered.
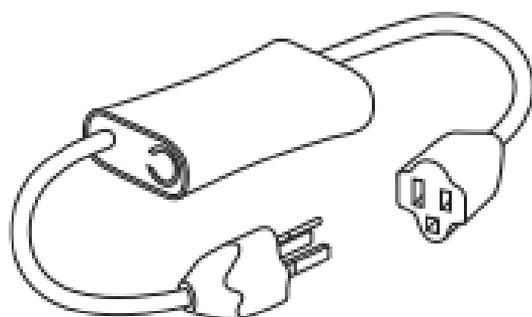
5.3 Press the security tamper switch located at the back of the Aeon Labs D/W Sensor to complete the association process.
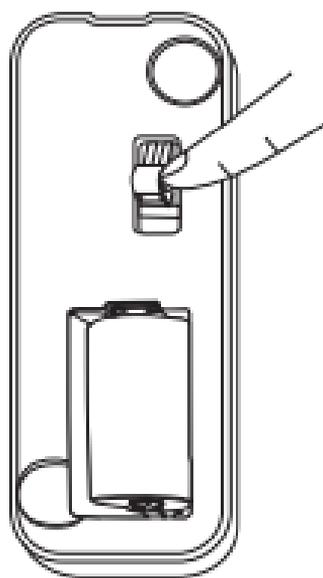
Note: The Aeon Labs D/W Sensor can be associated to 6 devices total (1 device being a SUC/SIS gateway).

Troubleshooting: The Aeon Labs D/W Sensor must first be part of your Z-Wave network in order to receive association commands from another device in the same Z-Wave network.

6. Reporting an Alarm when Tampered

The Aeon Labs D/W Sensor has a built in security tamper switch which will automatically alert (Z-Wave Alarm Command Class) the associated gateway when the sensor is removed from either the bidirectional mounting plate or pried off the surface to which it was mounted.
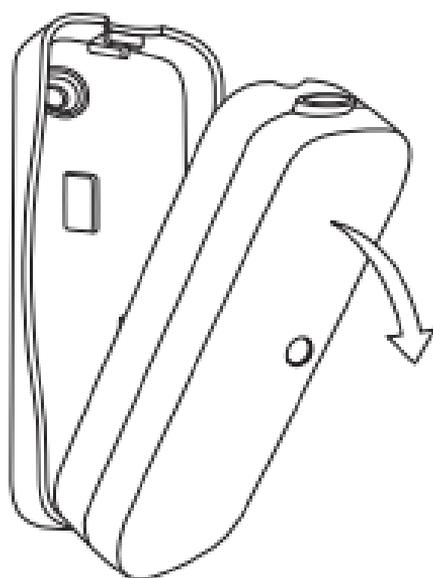
7. Removing/Resetting the Aeon D/W Sensor from your Z-Wave Network

Removing the Aeon Labs D/W Sensor from a Z-Wave network resets the device to the default factory settings and removes all previous saved associations.

7.1 Hold the button on the Aeon Labs Z-Stick to begin the Z-Wave removal process.

OR
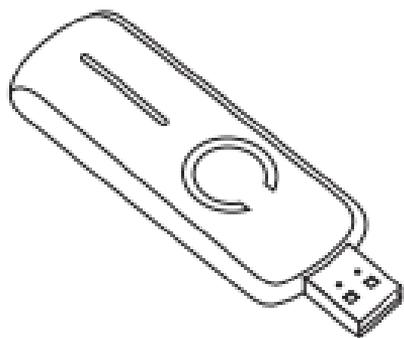
Press the button labeled "Remove" on the Aeon Labs Minimote Stick to begin the Z-Wave removal process.
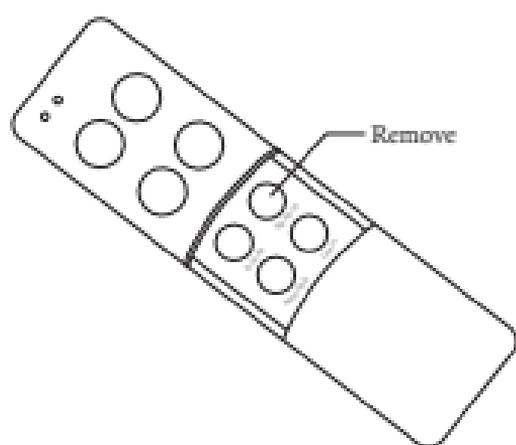
Remove

Note: To remove the Aeon Labs D/W Sensor with other controllers, please consult the operation manual for these controllers on how to remove Z-Wave products from an existing network. For instructions on select partner gateways, visit www.aeon-labs.com/support.

7.2 Press the security tamper switch located at the back of the Aeon Labs D/W Sensor to remove it from your Z-Wave network.
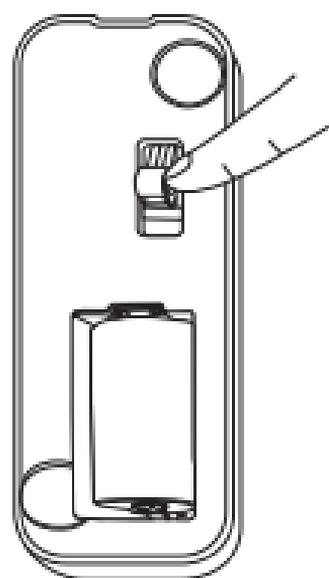
Troubleshooting: If the Aeon Labs D/W Sensor was removed from the Z-Wave network, pressing the security switch will illuminate the LED on the front of the Aeon Labs D/W Sensor solid red for 5 seconds. If the Aeon Labs D/W Sensor was not successfully removed from the Z-Wave network, the LED will blink instead of staying solid.

8. Replacing Batteries

The Aeon Labs D/W Sensor has built in battery level detection. It will automatically report it's battery level (Z-Wave Battery Command Class) to the associated gateway throughout it's life until the battery is fully drained and needs replacing. The battery status will often be displayed in the user interface of the gateway.

When used properly in an optimized Z-Wave network, the CR2 battery can last up to 2 years with regular usage.

8.1 Unhook the sensor from the bidirectional mounting plate by depressing the latch button (on the side) and pulling the sensor body outward to separate the sensor from its bidirectional mount.

8.2 Insert the CR2 with the negative end first depressing the battery spring.

8.3 Hook the sensor into the bidirectional mounting plate by first inserting the hitch of the bidirectional mounting plate into the hitch hole of the sensor. Then push the other end of the sensor into the bidirectional mounting plate until the units firmly click together.
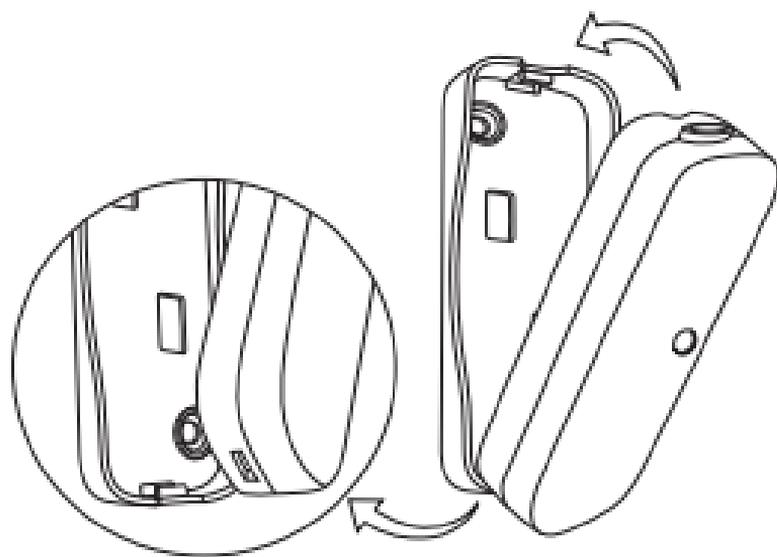
Recommendation: For networks which do not have a method to display the battery level of the Aeon Labs D/W Sensor, it is recommended that the sensor be tested occasionally to ensure that the battery still hold enough charge to operate. Batteries naturally lose their charge over time.

Technical Specifications
- 2 year battery life with CR2 battery
- Maximum 100ft Z-Wave RF range (indoors)
- Operating Temperatures -35 to +85 °C

Warranty

Aeon Labs warrants to the original purchaser of Products that for the Warranty Period (as defined below), the Products will be free from material defects in materials and workmanship. The foregoing warranty is subject to the proper installation, operation and maintenance of the Products in accordance with installation instructions and the operating manual supplied to Customer. Warranty claims must be made by Customer in writing within thirty (30) days of the manifestation of a problem. Aeon Labs' sole obligation under the foregoing warranty is, at Aeon Labs' option, to repair, replace or correct any such defect that was present at the time of delivery, or to remove the Products and to refund the purchase price to Customer.

The "Warranty Period" begins on the date the Products is delivered and continues for 12 months.

Any repairs under this warranty must be conducted by an authorized Aeon Labs service representative and under Aeon Labs' RMA policy. Any repairs conducted by unauthorized persons shall void this warranty.

Excluded from the warranty are problems due to accidents, acts of God, civil or military authority, civil disturbance, war, strikes, fires, other catastrophes, misuse, misapplication, storage damage, negligence, electrical power problems, or modification to the Products or its components.

Aeon Labs does not authorize any person or party to assume or create for it any other obligation or liability in connection with the Products except as set forth herein.

Aeon Labs will pass on to Customer all manufacturers' Material warranties to the extent that they are transferable, but will not independently warrant any Material.

Customer must prepay shipping and transportation charges for returned Products, and insure the shipment or accept the risk of loss or damage during such shipment and transportation. Aeon Labs will ship the repaired or replacement products to Customer freight prepaid.

Customer shall indemnify, defend, and hold Aeon Labs and Aeon Labs' affiliates, shareholders, directors, officers, employees, contractors, agents and other representatives harmless from all demands, claims,

actions, causes of action, proceedings, suits, assessments, losses, damages, liabilities, settlements, judgments, fines, penalties, interest, costs and expenses (including fees and disbursements of counsel) of every kind (i) based upon personal injury or death or injury to property to the extent any of the foregoing is proximately caused either by a defective product (including strict liability in tort) or by the negligent or willful acts or omissions of Customer or its officers, employees, subcontractors or agents, and/or (ii) arising from or relating to any actual or alleged infringement or misappropriation of any patent, trademark, mask work, copyright, trade secret or any actual or alleged violation of any other intellectual property rights arising from or in connection with the products, except to the extent that such infringement exists as a result of Aeon Labs 'manufacturing processes.

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FC **Product RoHS** **CE**

Federal Communications Commission (FCC) Statement – USA Products

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.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) These devices may not cause harmful interference, and (2) these devices must accept any interference received, including interference that may cause undesired operation.

Unauthorized changes or modifications to this product could void the user's authority to operate the equipment.

Warning:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

Harmonizing the Smart Home.

www.aeon-labs.com