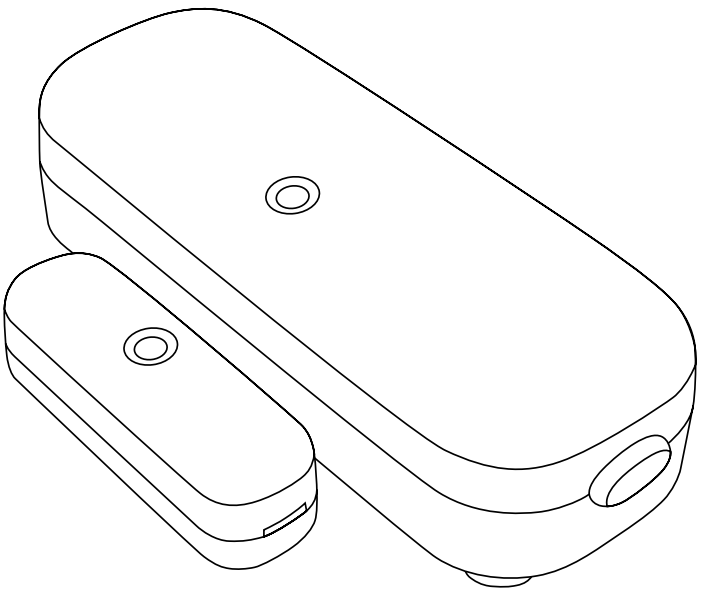
AEOTEC
BY AEON LABS

DOOR / WINDOW SENSOR GEN5



① Aeotec by Aeon Labs Door/Window Sensor.

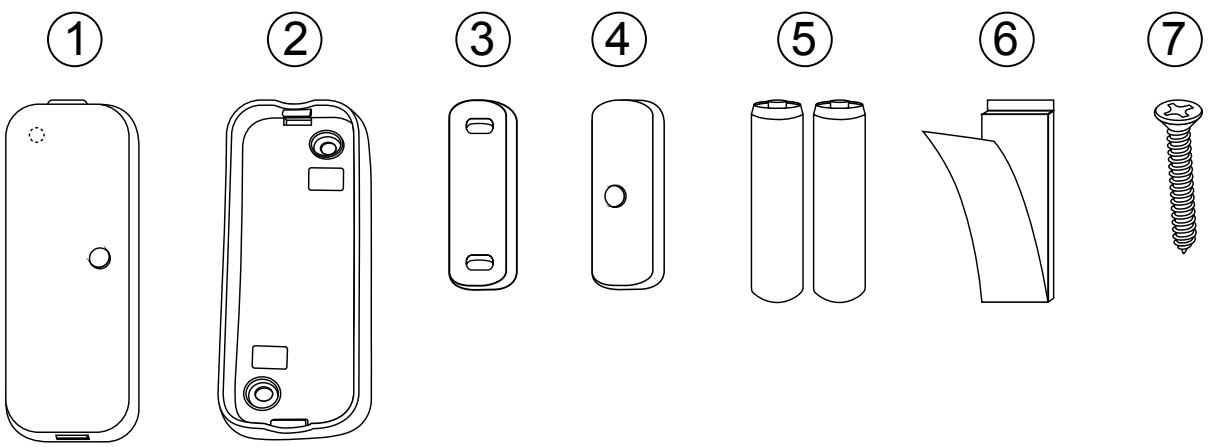
The Aeotec by Aeon Labs Door/Window Sensor Gen5 provides your Z-Wave network with the intelligence required for a modern home automation and security system. And it does it all in a smaller, more elegant design crafted to suit any home's decor.

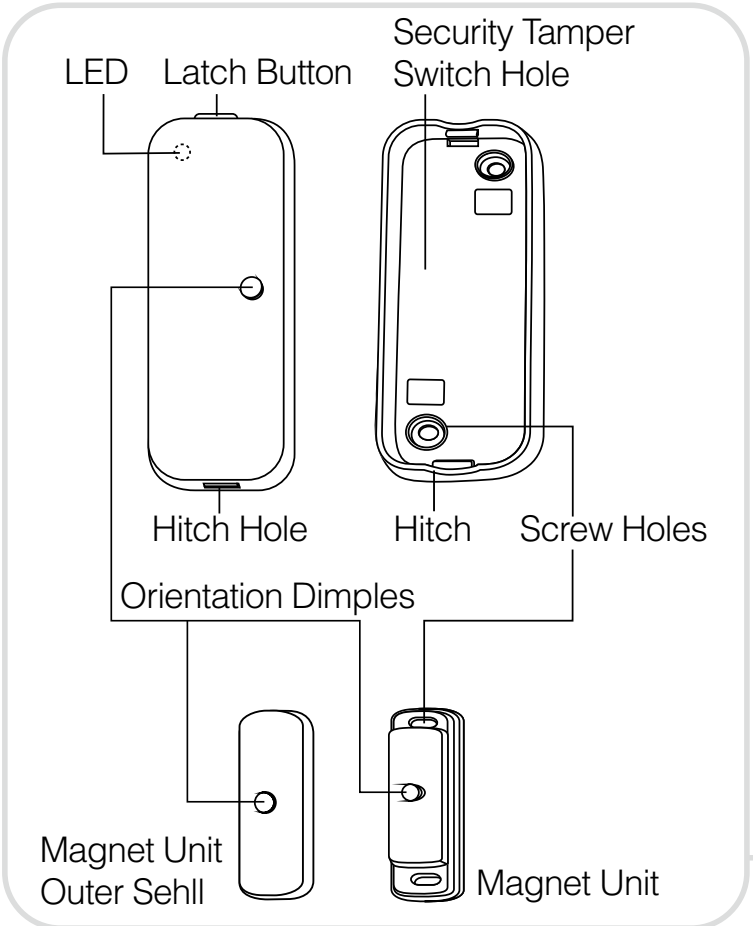
The Door Window Sensor is also a security Z-wave device that supports Over The Air (OTA) for firmware updates.

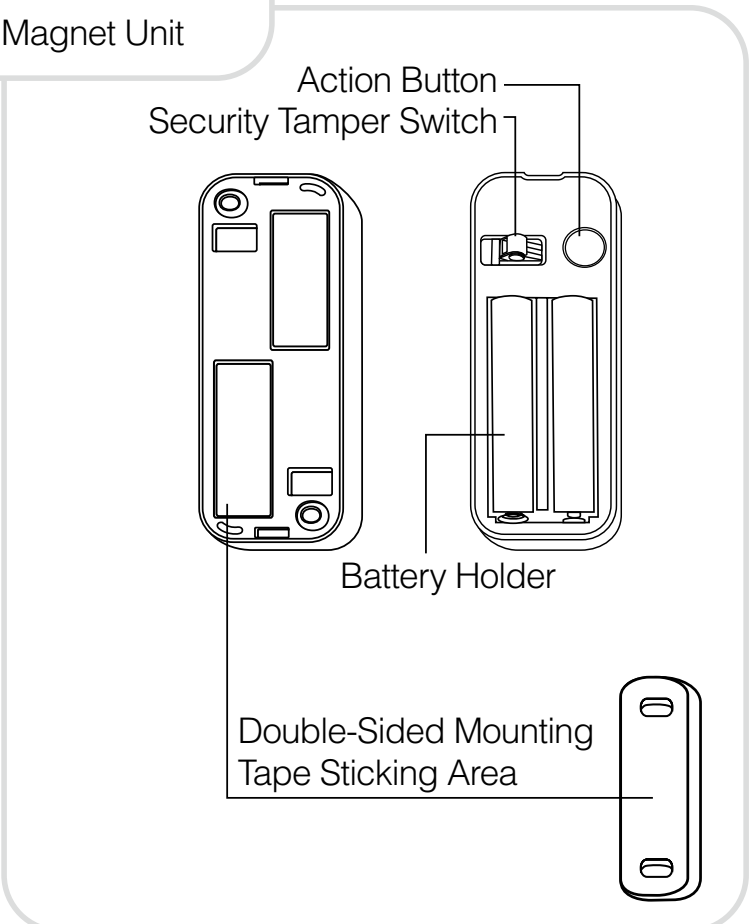
② Familiarize yourself with your Door/Window Sensor.

Package contents:

1. Sensor Unit.
2. Bidirectional Mount Plate.
3. Magnet Unit.
4. Magnet Unit Outer Shell.
5. AAA Batteries(×2).
6. Double-Sided Mounting Tape(×6).
7. Screws(×4).







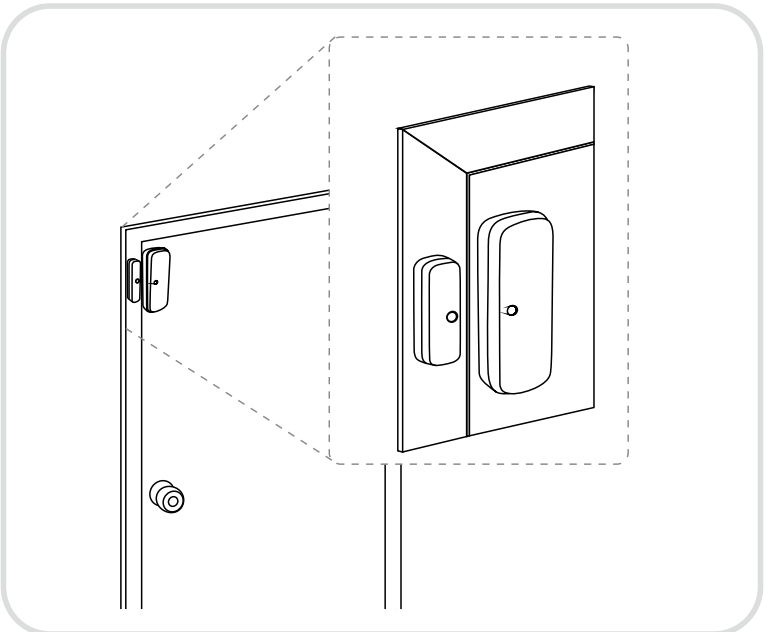
③ Quick start.

The installation of your Door Window Sensor has two major steps: the Main Sensor and the Magnet. Your Door Window Sensor will use wireless technology to talk to your Z-Wave network once paired to your Z-Wave network.

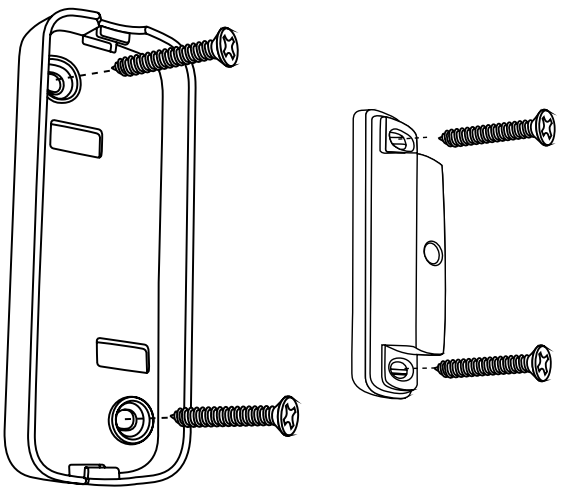
Selecting where you'll place your Door/Window Sensor in your home is just as important as the actual affixing it to the surface.

Whether it’s for security or intelligence purposes, your sensor:

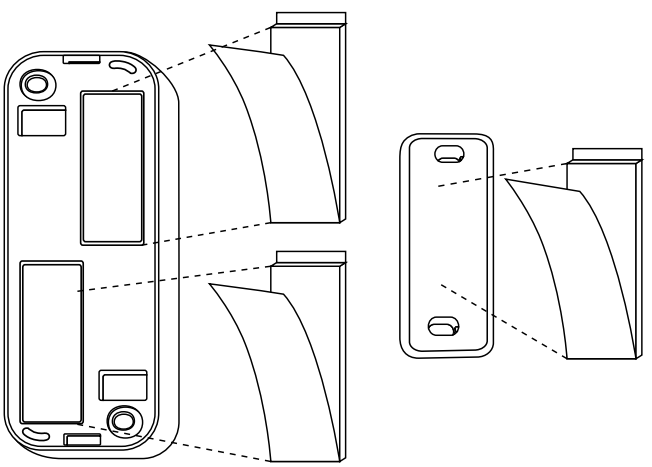
1. Should be affixed indoors and away from sources of moisture.
2. Placed within 30 meters of another Z-Wave device that is either a gateway or not powered by batteries.
3. The magnet and the main sensor must be less than 2cm apart. Main sensor must be affixed to the door or window and the magnet must be affixed to the frame. The magnet and the main sensor must separate when the door or window is opened.
4. Should not be mounted on a metal frame.



Affix your Sensor plates to a surface.
The Mounting plates can be affixed using screws or double-sided tape.
If you are using screws, attach both mounting plates to the respective surface using the two 20mm screws provided.



If you are using double-sided tape, wipe the two surfaces clean of any oil or dust with a damp towel. When the surface has completely dried, peel one side of the tape back and attach it to the corresponding section on the rear side of the mounting plates.



Adding your Sensor to your Z-Wave network.

With your mounting plates prepared to hold each component of your sensor, it's time to add it to your Z-Wave network.

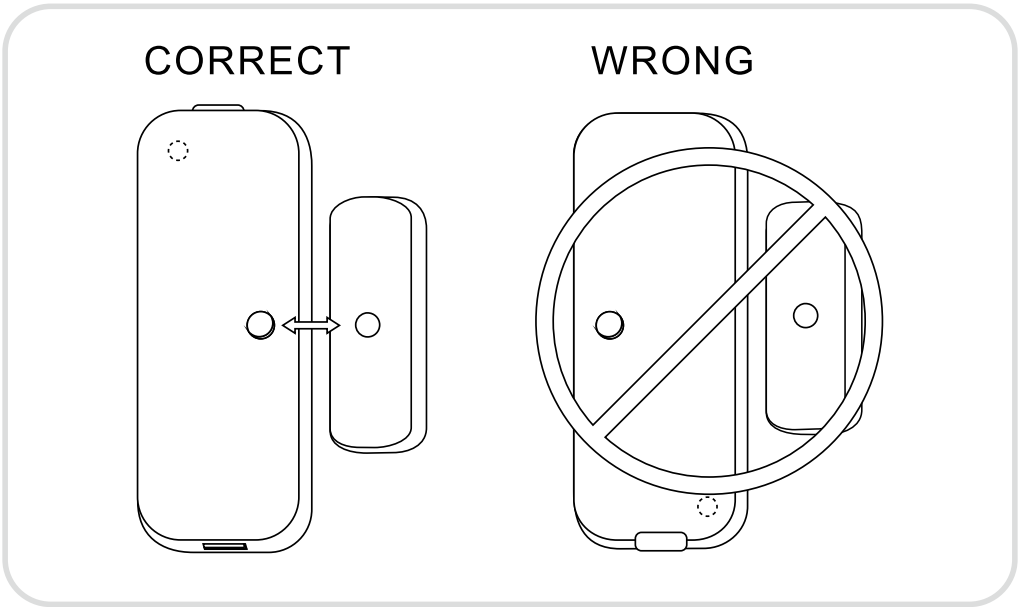
1. Let your Z-Wave primary controller/gateway enter into adding/inclusion mode.
2. Take your Sensor near to your primary controller.
3. Press the Action Button once on your Sensor.
4. If your Door Window Sensor has been successfully added to your Z-Wave network, its Status LED will fast blink for 2 seconds and then be solid for 2 seconds when you press the Action Button again. If the adding was unsuccessful and the Status LED continues to fast blink for 8 seconds and then slow blink for 3 seconds, repeat the above steps.

With your Door Window Sensor now working as a part of your smart home, you'll be able to configure it from your home control software or phone application. Please refer to your software's user guide for precise instructions on configuring Door Window Sensor to your needs.

Attach your sensor to its plates.

With your sensor added to your Z-Wave network, it's now time to insert each main part of your sensor into the corresponding sensor plate.

1. Insert the larger of your two sensor parts into the large mounting plate ensuring that the dimple on the front is on the same side as the smaller mounting plate.
2. Insert the smaller of your two sensor parts into its mounting plate.



④ Advanced functions.

Send a wake up notification.

In order to send your Sensor new configuration commands from your Z-Wave controller or gateway, it will need to be woken up.

1. Remove your Sensor unit from its Back Mounting Plate, press the Action Button on the back of the Sensor unit and then release the Action Button. This will trigger and send a wake up notification command to your controller/gateway.
2. If you want your Sensor to keep awake for a longer time, press and hold the Action Button on the back of the Sensor unit for 3 seconds, then your Sensor will wake up for 10 minutes and the Status LED will fast blink while it is awake.

Removing your Sensor from your Z-Wave network.

Your sensor can be removed from your Z-Wave network at any time. You'll need to use your Z-Wave network's main controller/

gateway. To do this, please refer to the part of their respective manuals that tell you how to remove devices from your network.

1. Put your primary controller into device removal mode.
2. Unlock your Sensor from the Back Mount plate and take the Sensor unit near to your primary controller.
3. Press the Action Button on your Sensor.
4. If your Door Window Sensor has been successfully removed from your Z-Wave network, its Status LED will fast blink for 8 seconds and then slow blink for 3 seconds when you press the Action Button again. If the removing was unsuccessful, the Status LED will fast blink for 2 seconds and then be solid for 2 seconds when you press the Action Button, repeat the above steps.

Security or Non-security feature of your Sensor in Z-wave network.

Including Door/Window Sensor as a non-secure device:

If you want your Sensor as a non-security device in your Z-wave network, you just need to press the Action Button once on Door Window Sensor when you use a controller/gateway to add/ include your Sensor.

Including Door/Window Sensor as a secure device:

In order to take full advantage of all functionality the Door Window Sensor, you may want your Sensor is a security device that uses secure/encrypted message to communicate in Z-wave network, so a security enabled controller/gateway is needed for the Door Window Sensor to be used as a security device.

You need to press the Sensor's Action Button 2 times within 1 second when your security controller/gateway starts the network inclusion.

Factory Reset your Sensor.

If your primary controller is missing or inoperable, you may wish to reset all of your Door Window Sensor's settings to their factory defaults. To do this, press and hold the Action Button for 20 seconds and Status LED will be solid for 2 seconds to confirm a success.

⑤ Technical specifications.

Model number: ZW120.
Battery: Up to 1 year battery life with 2×AAA batteries.
Operating temperature: 0°C to 40°C.
Relative humidity: 8% to 80%.
Operating distance: Up to 300 feet/100 metres outdoors.

⑥ Warranty.

If you are in need of any technical support during or subsequent to your products' warranty, please get in touch with our support team via http://aeotec.com/support. The Company you bought this product from has also guaranteed to assist you with any of your support needs, and you can also contact them for accordingly.

This guarantee made by the company who you purchased the product from includes the transfer of Aeon Labs' full warranty to

that Company. They've guaranteed that they'll be able to assist you, the Customer, with all technical support and repair needs on our behalf.

Aeon Labs warrants to the original purchaser of Products, that is the Company who you have purchased from, 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. Warranty claims must be made to the Company who you have purchased from 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 Company.

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.

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STORE INDOORS WHEN NOT IN USE. SUITABLE FOR DRY LOCATIONS. DO NOT IMMERSE IN WATER. NOT FOR USE WHERE DIRECTLY EXPOSED TO WATER.

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 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.

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.

Certifications (regional):

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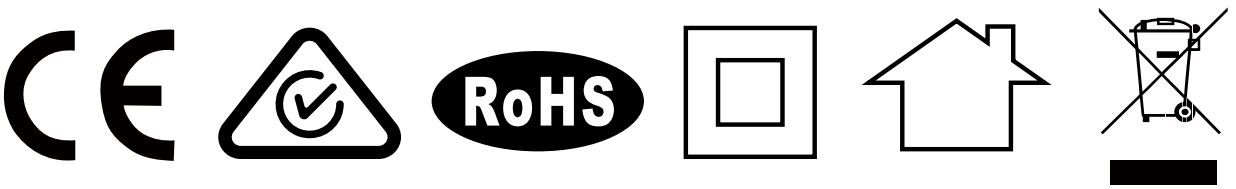

Version:5010120000001-AA

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Association information

5.3 Association Command Class

The Door Window Sensor supports 1 association group and can add Max 5 nodes in group 1.

Association Group	Nodes	Send Mode	Send commands
Group 1	0	N/A	N/A
	[1,5]	Single Cast	Send Sensor Binary Report (configurable in parameter 121) or Basic Set Command (configurable in parameter 121) or Notification Report Command when the Sensor is triggered.

5.4 Association Group Info Command Class

5.4.1 Association Group Info Report Command Class

Profile: General: NA (Profile MSB=0, Profile LSB=0)

5.4.2 Association Group Name Report Command Class

Group 1：Lifeline

Configuration parameters information

Parameter Number Hex / Decimal	Description	Default Value	Size
0x01 (1)	Which value of the Sensor Binary Report will be sent when the door is Opened/Closed. 1, Value=0, Close=Sensor Binary Report 0xFF, Open=Sensor Binary Report 0x00. 2, Value=1, Close= Sensor Binary Report 0x00, Open= Sensor Binary Report 0xFF.	1	1

0x02 (2)	Enable/disable wake-up 10 minutes when re-power on the Sensor. (0=disable, 1=enable)	1	1
0x03 (3)	Which value of the Basic Set will be sent when the door is Opened/Closed. 1, Value=0, Close= Basic Set 0xFF, Open=Basic Set 0x00. 2, Value=1, Close=Basic Set 0x00, Open= Basic Set 0xFF.	1	1
0x27 (39)	Set the low battery value. (10% to 50%)	10	1
0x6F (111)	Set the interval time of battery report. Value=0, disable the battery report for a interval time. Value=1 to 0x7FFFFFFF, the interval time of battery report is set. Note: 1, If the value is less than 10, the time unit is second. If the value is more than 10, the time unit is 4 minutes, which means if the value is more than 10 and less than 240, the interval time is 4 minutes. If the value is more than 240 and less than 480, the interval is 8 minutes. 2, If the current battery report falls below the low battery value (configurable parameter 39), it will send battery report=0xFF.	0	4
0x79 (121)	To configure which sensor report will be sent when the Sensor is triggered On/Off.	0x00000100	4
0xFF (255)	1, Value=0x55555555、Default=1、Size=4 Reset to factory default setting and removed from the z-wave network	0	4
	2, Value=0、Default=1、Size=1 Reset to all settings to default value.	0	1