AEOTEC
BY AEON LABS

DRY CONTACT SENSOR GEN5

View the expanded manual:
http://aeotec.com/support
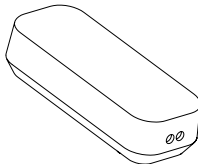
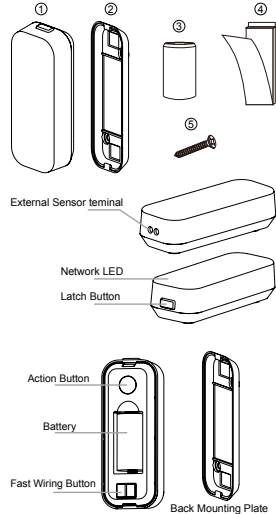① **Aeotec by Aeon Labs Dry Contact Sensor.**

From Aeotec by Aeon Labs' intelligence series and our Gen5 range, comes the Dry Contact Sensor. It is a fully functional Z-Wave® sensor that can detect a variety of dry contact signals. You just need to connect the matched external sensor on it such as a water level sensor, dry contact switch, dry contact relay, or other possible dry contact sensors. The Dry Contact Sensor can be used if the external sensor is a dry contact device.

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

② **Familiarize yourself with your Dry Contact Sensor.**

Package contents:
1. Sensor Unit.
2. Back Mounting Plate.
3. CR123A Battery.
4. Double-Sided Tape(×2).
5. Screws (×2).

External Sensor teminal
Network LED
Latch Button
Action Button
Battery
Fast Wiring Button
Back Mounting Plate

③ **Quick start.**

❋ Installing your Dry Contact Sensor.

The installation of your Dry Contact Sensor has two major steps: the Main

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Sensor and the External Sensor. Powered by batteries, your Dry Contact Sensor will use wireless technology to talk to your Z-Wave network once installed.

The Dry Contact Sensor should be installed inside your home and should not be installed outdoors in elements such as rain and snow.
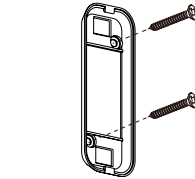
1. Press and hold the Latch Button to unlock the Sensor Unit from the Back Mounting Plate:

2. Affix your Back Mounting Plate to a surface.
The Back Mounting Plate can be affixed using screws or double-sided tape.
If you are using screws, attach the Back Mounting Plate 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 Back Mounting Plate.
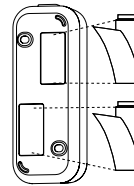
❋ Adding your Sensor to your Z-Wave network.

The following instructions will tell you how to link your Dry Contact Sensor to your Z-Wave network via

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an Aeotec by Aeon Labs' Z-Stick or Minimote controller. If you are using another Z-Wave controller as your main controller, please refer to their respective manual on how add new devices to your network.

If you're using a Z-Stick:
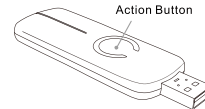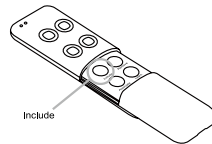

Action Button

1. Remove the spacing tab to connect the batteries on your Dry Contact Sensor. Its Network LED will begin to blink when you short press the Action Button on the back of Sensor.
2. If your Z-Stick is plugged into a gateway or a computer, unplug it.
3. Take your Z-Stick to your Dry Contact Sensor.
4. Press the Action Button on your Z-Stick. The LED on your Z-Stick should begin to blink slowly.
5. Press the Action Button on your Dry Contact Sensor.
6. If your Dry Contact Sensor has been successfully linked to your Z-Wave network, its Network LED will no longer blink when you short press

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the Action Button on the back of the Dry Contact Sensor. If the linking was unsuccessful and the Network LED continues to blink, repeat the steps above.
7. Press the Action Button on the Z-Stick to take it out of inclusion mode.

If you're using a Minimote:

Include

1. Remove the spacing tab to connect the batteries on your Dry Contact Sensor. Its Network LED will begin to blink when you short press the Action Button on the back of Sensor.
2. Take your Minimote to your Dry Contact Sensor.
3. Press the Include button on your Minimote.
4. Press the Action Button on your Dry Contact Sensor.
5. If your Dry Contact Sensor has been successfully linked to your Z-Wave network, its Network LED will no longer blink. If the linking was unsuccessful

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and the Network LED continues to blink, repeat the above steps.
6. Press any button on your Minimote to take it out of inclusion mode.

With your Dry Contact 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 Dry Contact Sensor to your needs.

❋ Connect the External Sensor to your Dry Contact Sensor.

You can choose an External Sensor to be connected to your Dry Contact Sensor according to your needs or main application.

Step1. Use the wire stripper cut the metallic part of External Sensor wire and make sure the length of metallic part is about 8mm to 9mm.
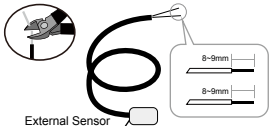
External Sensor

Step2. Press and hold the Fast Wiring Button and then put the External Sensor wires into the connectors. Release the Fast Wiring Button, the external sensor wires will be clamped with the Dry Contact Sensor.
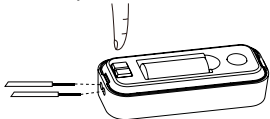

Note:
1. The External Sensor should base on the principle of dry contact but not wet contact.
2. The length of External Sensor wire should not more than 5 meters and the size of wire should between 18AWG to 20AWG that can bear the tension of 25N.
3. The frequency of state change for the external sensor should be less than 4Hz or the minimum triggering time should be more than 250ms.

❋ Attach your Sensor to its External Mounting Plate.

Press and hold the Latch Button, and then push the Sensor into the Back Mounting Plate.

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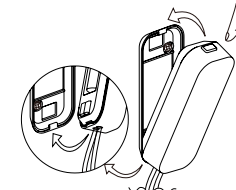
④ **Advanced functions.**

❋ 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 and hold the Action Button on the back of the Sensor unit for 5 seconds 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, quick press the Action Button on the back of the Sensor unit 3 times, then your Sensor will wake up for 10 minutes and the Network LED will remain solid 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 to do this. The following instructions tell you how to do this using Aeotec by Aeon Labs' Z-Stick and Minimote controller. If you are using other products as your main Z-Wave controller, please refer to the part of their respective manuals that tell you how to remove devices from your network.

If you're using a Z-Stick:
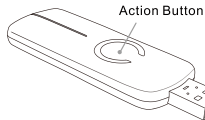
Action Button

1. If your Z-Stick is plugged into a gateway or a computer, unplug it.
2. Take your Z-Stick to your Dry Contact Sensor. Press and hold the Action Button on your Z-Stick for 3 seconds then let go.
3. Press the Action Button on your Dry Contact Sensor.
4. If your Dry Contact Sensor has

been successfully removed from your Z-Wave network, its Network LED will be blinking. If the removing was unsuccessful, the Network LED will not blink, repeat the above steps.
5. Press the Action Button on your Z-Stick to take it out of removal mode.

If you're using a Minimote:
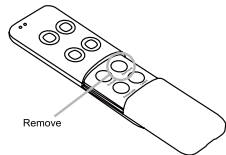
Remove

1. Take your Minimote to your Dry Contact Sensor.
2. Press the Remove button on your Minimote.
3. Press the Action Button on your Dry Contact Sensor.
4. If your Dry Contact Sensor has been successfully removed from your Z-Wave network, its Network LED will be blinking. If the removing was unsuccessful, the Network LED will not blink then repeat the above steps again.
5. Press any button on your Minimote to take it out of removal mode.

⊛ Factory Reset your Sensor.

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

⑤ Technical specifications.

Operating Distance: Up to 490 feet/150 metres outdoors.
Battery: Up to 1.5 year battery life (allows at least 48 sensor triggers every day) with Lithium cell CR123A, 3V, 1500mAh.
Supported External Sensor: All sensors that are based on the principle of dry contact.
Operating Temperature: -10℃ to 40℃.
Relative Humidity: 8% to 80%.

⑥ 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.
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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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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
 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.
• Consul 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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