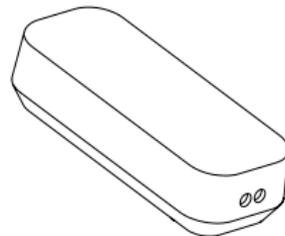




DRY CONTACT SENSOR GEN5



View the expanded manual:
<http://aeotec.com/support>



1 Aeotec by Aeon Labs Dry Contact Sensor.

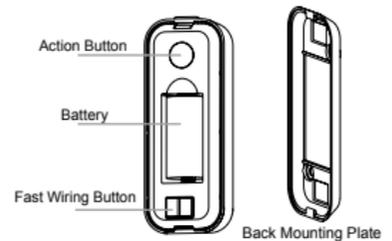
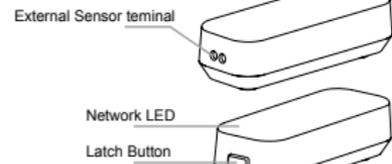
From Aeotec by Aeon Labs' intelligence series and our Gen5 range, comes the Dry Contact Sensor. It is a fully functional Z-Wave® sensor that can detect a variety of dry contact signals. You just need to connect the matched external sensor on it such as a water level sensor, dry contact switch, dry contact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



3 Quick start.

● Installing your Dry Contact Sensor.

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

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.

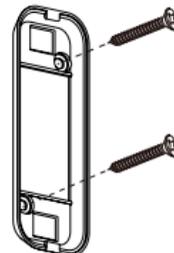
1. Press and hold the Latch Button to unlock the Sensor Unit from the Back Mounting Plate:



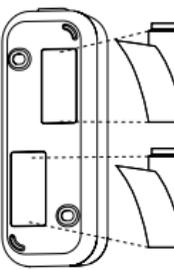
2. Affix your Back Mounting Plate to a surface.

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.

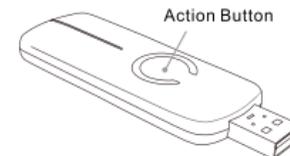


● Adding your Sensor to your Z-Wave network.

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

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:

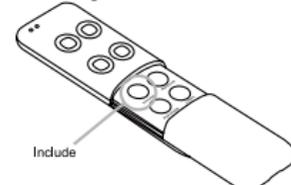


1. Remove the spacing tab to connect the batteries on your Dry Contact Sensor. Its Network LED will begin to blink when you short press the Action Button on the back of Sensor.
2. If your Z-Stick is plugged into a gateway or a computer, unplug it.
3. Take your Z-Stick to your Dry Contact Sensor.
4. Press 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 added to your Z-Wave network, its Network 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 Network LED continues to fast blink for 8 seconds and then slow blink for 3 seconds, repeat the above steps.

7. Press the Action Button on the Z-Stick to take it out of inclusion mode.

If you're using a Minimote:



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 added to your Z-Wave network, its Network 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 Network LED continues to fast blink for 8 seconds and then slow blink for 3 seconds, repeat the above steps.

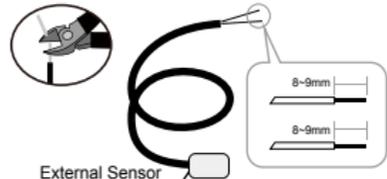
6. Press any button on your Minimote to take it out of inclusion mode.

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.

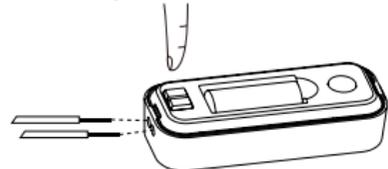
● Connect the External Sensor to your Dry Contact Sensor.

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.



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.



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.

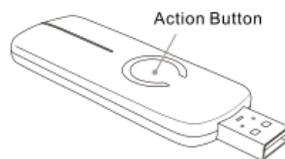
1. Remove your Sensor unit from its Back Mounting Plate, press the Action Button on the back of the Sensor unit and then release the Action Button. This will trigger and send a wake up notification command to your controller/gateway.

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 Network 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 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:

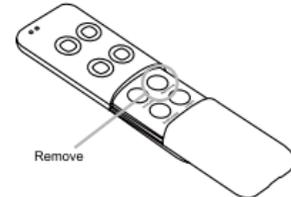


1. If your Z-Stick is plugged into a gateway or a computer, unplug it.
2. Take your Z-Stick to your Dry Contact Sensor. Press and hold the Action Button on your Z-Stick for 3 seconds then let go.
3. Press the Action Button on your Dry Contact Sensor.
4. If your Dry Contact Sensor has been successfully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

LED will 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 Network LED will fast blink for 2 seconds and then be solid for 2 seconds when you press the Action Button, repeat the above steps.

5. Z-Stick to take it out of removal mode.

If you're using a Minimote:



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 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 Network LED will fast blink for 2 seconds and then be solid for 2 seconds when you press the Action Button, repeat the above steps.

5. 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 492 feet/150 metres outdoors.

Battery: Up to 1 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: 0°C to 40°C.
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

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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.
- 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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Version:501009700001-AA
www.aeotec.com



Aeon Labs Dry Contact Sensor Gen5 Engineering Specifications and Advanced Functions for Developers

Aeon Labs Dry Contact Sensor is a sensor binary device based on Z-Wave enhanced 232 slave library of V6.51.06.

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 the water level sensor, dry contact switch, dry contact relay and so on. In other words, it can be used if the external sensor is a dry contact.

The Dry Contact Sensor is also a security Z-Wave device and supports the Over The Air (OTA) feature for the product's firmware upgrade.

Dry Contact Sensor Gen5 can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network. It also supports Security Command Class and has the AES 128 bit security encryption built right in, so a security enabled controller is needed for fully to utilize its function.

1. Library and Command Classes

1.1 SDK: 6.51.06

1.2 Library

- Basic Device Class: BASIC_TYPE_ROUTING_SLAVE
- Generic Device class: GENERIC_TYPE_SENSOR_NOTIFICATION
- Specific Device Class: SPECIFIC_TYPE_NOTIFICATION_SENSOR

1.3 Commands Class

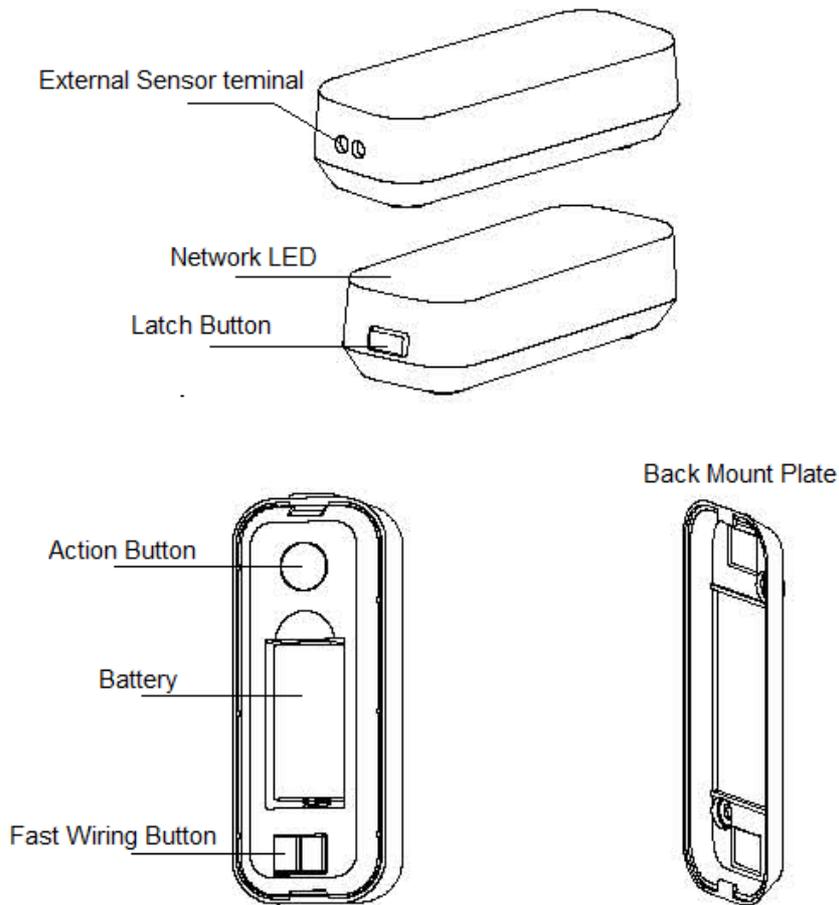
	Included Non-Secure	Included Secure
Node Info Frame	COMMAND_CLASS_ZWAVEPLUS_INFO V2 COMMAND_CLASS_VERSION V2 COMMAND_CLASS_MANUFACTURER_SPECIFIC V2 COMMAND_CLASS_NOTIFICATION V3 COMMAND_CLASS_ASSOCIATION_GRP_INFO V1 COMMAND_CLASS_ASSOCIATION V2 COMMAND_CLASS_BATTERY V1 COMMAND_CLASS_POWERLEVEL V1 COMMAND_CLASS_WAKE_UP V2 COMMAND_CLASS_BASIC COMMAND_CLASS_SENSOR_BINARY V1 COMMAND_CLASS_CONFIGURATION V1 COMMAND_CLASS_SECURITY V1 COMMAND_CLASS_FIRMWARE_UPDATE_MD V2 COMMAND_CLASS_MARK V1 COMMAND_CLASS_DEVICE_RESET_LOCALLY V1 COMMAND_CLASS_HAIL V1	COMMAND_CLASS_ZWAVEPLUS_INFO V2 COMMAND_CLASS_VERSION V2 COMMAND_CLASS_MANUFACTURER_SPECIFIC V2 COMMAND_CLASS_SECURITY V1 COMMAND_CLASS_MARK V1 COMMAND_CLASS_DEVICE_RESET_LOCALLY V1 COMMAND_CLASS_HAIL V1
Security Command Supported Report Frame	–	COMMAND_CLASS_ASSOCIATION_GRP_INFO V1 COMMAND_CLASS_ASSOCIATION V2 COMMAND_CLASS_POWERLEVEL V1 COMMAND_CLASS_NOTIFICATION V3 COMMAND_CLASS_WAKE_UP V2 COMMAND_CLASS_BASIC COMMAND_CLASS_SENSOR_BINARY V1 COMMAND_CLASS_BATTERY V1 COMMAND_CLASS_CONFIGURATION V1

2. Technical Specifications

Operating Distance: Up to 492 feet (150 meters) outdoors.

3. Familiarize Yourself with Your Dry Contact Sensor Gen5

3.1 Interface



4. All Functions of Each Trigger

4.1 Functions of Z-Wave Button

Trigger	Description
Click the Action Button one time	<ol style="list-style-type: none"> 1. Send node info frame without security CC in node info list. 2. Add Dry Contact Sensor into Z-Wave Network: <ol style="list-style-type: none"> 1. Power on Dry Contact Sensor. 2. Let the primary controller into inclusion mode (If you don't know how to do this, please refer to its manual). 3. Press the Action Button. 4. If the adding is failed, please repeat the process from step 2.

	<p>3. Remove Dry Contact Sensor from Z-Wave Network:</p> <ol style="list-style-type: none"> 1. Power on Dry Contact Sensor. 2. Let the primary controller into exclusion mode (If you don't know how to do this, refer to its manual). 3. Press the Action Button. 4. If the removing is failed, please repeat the process from step 2. <p>Note: If Dry Contact Sensor is removed from Z-wave network, it will be reset to factory default.</p>
Click the Action Button 2 times with 1 seconds	<p>1. Send node info frame with security CC in node info list.</p> <p>2. Add Dry Contact Sensor into Z-Wave Network:</p> <ol style="list-style-type: none"> 1. Power on Dry Contact Sensor. 2. Let the primary controller into inclusion mode (If you don't know how to do this, please refer to its manual). 3. Press the Action Button 2 times. 4. If the adding is failed, please repeat the process from step 2. <p>3. Remove Dry Contact Sensor from Z-Wave Network:</p> <ol style="list-style-type: none"> 1. Power on Dry Contact Sensor. 2. Let the primary controller into exclusion mode (If you don't know how to do this, refer to its manual). 3. Press the Action Button 2 times. 4. If the removing is failed, please repeat the process from step 2. <p>Note: If Dry Contact Sensor is removed from Z-wave network, it will be reset to factory default.</p>
Press and hold Action Button for 3 seconds and then released	Toggle on/off 10 minutes wake-up state
Press and hold Action Button for 20 seconds and then released	<p>Reset Dry Contact Sensor to Factory Default:</p> <ol style="list-style-type: none"> 1. Make sure the Dry Contact Sensor is connected to the power supply. 2. If holding time more than one second, the Network LED will fast blink. If holding time more than 20seconds, Network LED will be on for 2 seconds, which indicates the reset operation is successful, otherwise please repeat from step1 to step2. <p>Note:</p> <ol style="list-style-type: none"> 1. This procedure should only be used when the primary controller is inoperable. 2. Reset Dry Contact Sensor to factory default settings will: <ol style="list-style-type: none"> a), remove Dry Contact Sensor from Z-Wave network state; b), delete the Association setting; c), restore the configuration settings to the default.
External Sensor triggers On/Off	Send Sensor Binary Report (configurable), Basic Set Command (configurable), Battery Report (configurable) or Notification Report.

The priority of destination node that Wake Up Notification will be sent to:

Destination nodes	Priority
The Node configured by Wake up Interval set command	Supreme
SIS or SUC Node	High
First Associated Node	Middle

Broadcast	Low
-----------	-----

5. Special Rule of Each Command

5.1 Z-Wave Plus Info Report Command Class

Parameter	Value
Z-Wave Plus Version	2 (ZWAVEPLUS_INFO_VERSION_V2)
Role Type	6 (ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE_SLEEPING_REPORTING)
Node Type	0 (ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVEPLUS_NODE)
Installer Icon Type	0x0C05 (ICON_TYPE_SPECIFIC_SENSOR_NOTIFICATION_WATER_ALARM)
User Icon Type	0x0C05 (ICON_TYPE_SPECIFIC_SENSOR_NOTIFICATION_WATER_ALARM)

5.2 Manufacturer Specific Report

Parameter	Value
Manufacturer ID 1	0x00
Manufacturer ID 2	0x86
Product Type ID 1	EU=0x00, US=0x01, AU=0x02
Product Type ID 2	0x02
Product ID 1	0x00
Product ID 2	0x61

5.3 Association Command Class

The Dry Contact 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

5.5 Notification Command Class

Default Notification type and Event:

Notification Type: Access Control (0x06).

Notification Events: Window/Door is open (0x16). Window/Door is closed (0x17).

Other supported Notification types or Events can be configured via parameter 122.

5.6 Configuration Set Command Class

7	6	5	4	3	2	1	0
Command Class = COMMAND_CLASS_CONFIGURATION							
Command = CONFIGURATION_SET							
Parameter Number							
Default	Reserved					Size	
Configuration Value 1(MSB)							
Configuration Value 2							
.....							
Configuration Value n(LSB)							

Parameter Number Definitions (8 bit):

Parameter Number Hex / Decimal	Description	Default Value	Size
0x01 (1)	Which value of the Sensor Binary Report will be sent when the Sensor is triggered On/Off. 1, Value=0, On=Sensor Binary Report 0xFF, Off=Sensor Binary Report 0x00. 2, Value=1, On= Sensor Binary Report 0x00, Off= Sensor Binary Report 0xFF.	0	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 Sensor is triggered On/Off.. 1, Value=0, On= Basic Set 0xFF, Off=Basic Set 0x00. 2, Value=1, On=Basic Set 0x00, Off = Basic Set 0xFF.	0	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

0x7A (122)	Set a Notification type for Dry Contact Sensor. Value: 1 to 11, correspond to Notification type 1 to 10. See the below table.	6	1
0xFF (255)	1, Value=0x55555555、Default=1、Size=4 Reset to factory default setting and removed from the z-wave network	N/A	4
	2, Value=0、Default=1、Size=1 Reset to all settings to default value.	N/A	1

Parameter number equals 121:

	7	6	5	4	3	2	1	0
Configuration Value 1(MSB)	Reserved							
Configuration Value 2	Reserved							
Configuration Value 3	Reserved							Basic Set
Configuration Value 4(LSB)	Reserved	Reserved	Reserved	Sensor Binary	Reserved	Reserved	Reserved	Reserved

Example:

Configure the Dry Contact Sensor to send Sensor Binary report to controller when the Sensor is triggered:

1), Set the association to node 1(controller).

ZW_SendData(0x85, 0x01, 0x01, 0x01); // Association Set

2), Set the parameter 121 to 0x00000010.

ZW_SendData(0x79, 0x04, 0x00, 0x00, 0x00, 0x10); //Configuration Set

Parameter number equals 122:

Value	Notification Type (8 bit)	Event (8 bit)	Sensor state	Event Parameter(s) (N Byte)
1	Smoke Alarm 0x01	Smoke detected Unknown Location 0x02	Sensor ON is triggered	N/A
2	CO Alarm 0x02	Carbon monoxide detected, Unknown Location 0x02	Sensor ON is triggered	N/A
3	CO2 Alarm 0x03	Carbon dioxide detected, Unknown Location 0x02	Sensor ON is triggered	N/A
4	Heat Alarm 0x04	Overheat detected, Unknown Location 0x02	Sensor ON is triggered	N/A
5	Water Alarm 0x05	Water Leak detected, Unknown Location 0x02	Sensor ON is triggered	N/A
		Water Level Dropped, Unknown Location 0x04	Sensor OFF is triggered	N/A

6	Access Control	0x06	Window/Door is open (V3)	0x16	Sensor OFF is triggered	N/A
			Window/Door is closed (V3)	0x17	Sensor ON is triggered	N/A
7	Home Security	0x07	Intrusion, Unknown Location	0x02	Sensor ON is triggered	N/A
8	Power Management	0x08	AC mains disconnected	0x02	Sensor OFF is triggered	N/A
			AC mains re-connected	0x03	Sensor ON is triggered	N/A
9	System	0x09	System hardware failure	0x01	Sensor ON is triggered	N/A
10	Emergency Alarm	0x0A	Contact Fire Service	0x02	Sensor ON is triggered	N/A
11	Clock	0x0B	Timer Ended (V3)	0x02	Sensor ON is triggered	N/A