



Instruction Manual

Contact Sensor

Model Name:NAS-DS01Z

Brand:NEO Coolcam

Thank you for your support

- Please read the instruction manual carefully before operating
 - Please keep the instruction manual after reading



Shenzhen NEO Electronics Co., LTD

Product Introduction

Contact sensor is an intelligent security equipment that can transmit the Z-Wave network which has particular frequency. In the Z-Wave network communications, contact sensor can be connected to any Z-wave main controller. The contact sensor can send messages to the Z-wave main controller, and realize association with other devices through the Z-wave main controller. Different countries or areas, the radio frequency is different. In the communication with the Z-wave main controller, the contact sensor can send messages to the Z-wave main controller, but it can not receive messages from the Z-wave main controller. When alarm is triggered, the contact sensor sends messages to the Z-wave main controller, the Z-wave main controller will display the current status of contact sensor, so the contact sensor can associate with other devices. Contact sensor is battery powered, is small and can be installed on the window or door easily. When the door or window is open, the contact sensor is triggered and linkage alarm realized.

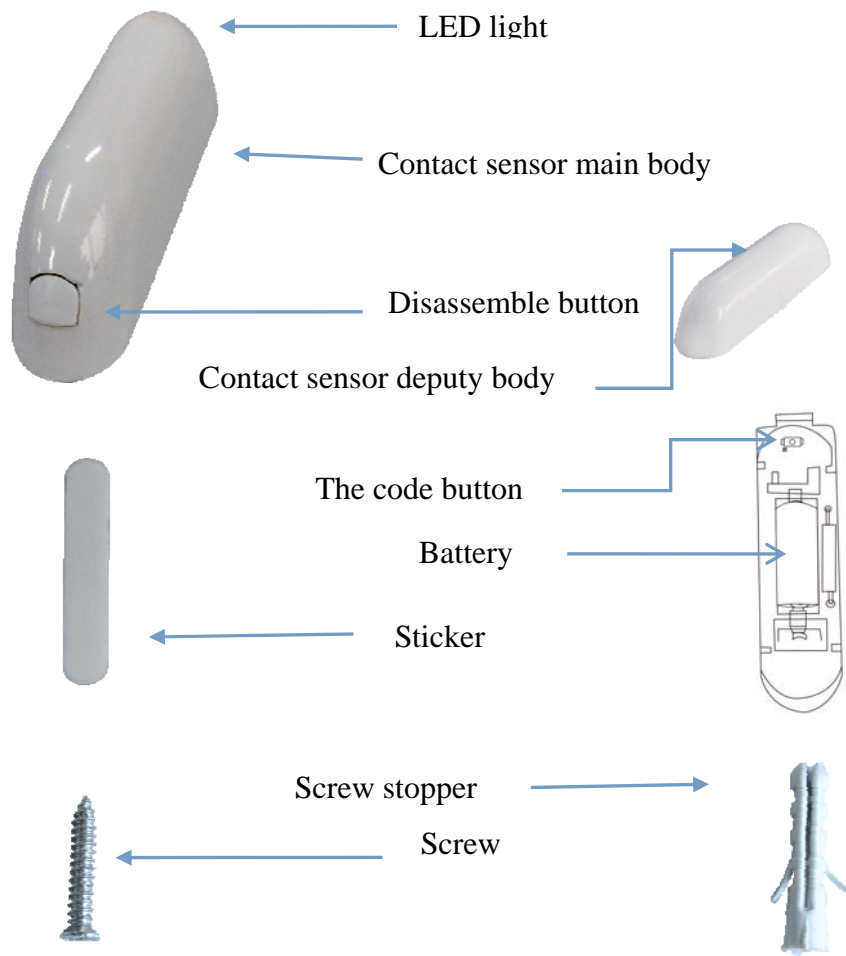
Technical parameters

- Power: CR14250 x1
- Standby current: 1uA
- Battery life: 10 years
- Radio Protocol: Z-wave
- Radio Frequency: 868.4MHz EU; 908.4MHz US; 921.4MHz ANZ; 869.2MHz RU
- Wireless distance: 50m
- Operation temperature: 0-40°C
- Storage temperature: 0-60°C
- Size: Contact sensor main body (L x W x H): 70mmx20mmx20mm
Contact sensor deputy body (L x W x H): 40mmx11mmx11mm

Technical Information

- Install on the door or window.
- Battery powered.
- Easily install with screws or sticker.
- Associate with other devices through the gateway.
- Compatible with any Z-Wave network.

Product Configuration



Product List

- Contact sensor main body 1pc
- Contact sensor deputy body 1pc
- Battery 2pcs
- Screw 6pcs
- Screw stopper 6pcs
- Sticker 2pcs
- Instruction manual 1pc

Including Sensor (contact sensor) to Z-Wave Network

The contact sensor can be included to the Z-wave network by pressing the code button.

- 1) Disassemble the contact sensor main body and insert the battery into the contact sensor. Make sure the device is located within the direct range of the controller.
- 2) Set the controller into the learning mode (see main controller's operating manual).
- 3) Quickly, triple click the code button, LED light will flash for 5 times.
- 4) Contact sensor will be detected and included in the Z-Wave network.
- 5) Wait for the main controller to configure the sensor.

Excluding Sensor (contact sensor) from Z-Wave Network

- 1) Make sure the sensor is connected to power source.
- 2) Set the main controller into the learning mode (see main controller's operating manual).
- 3) Quickly, triple click the code button, LED light will flash for 5 times.
- 4) Wait for the main controller to delete the sensor.

Installation Steps

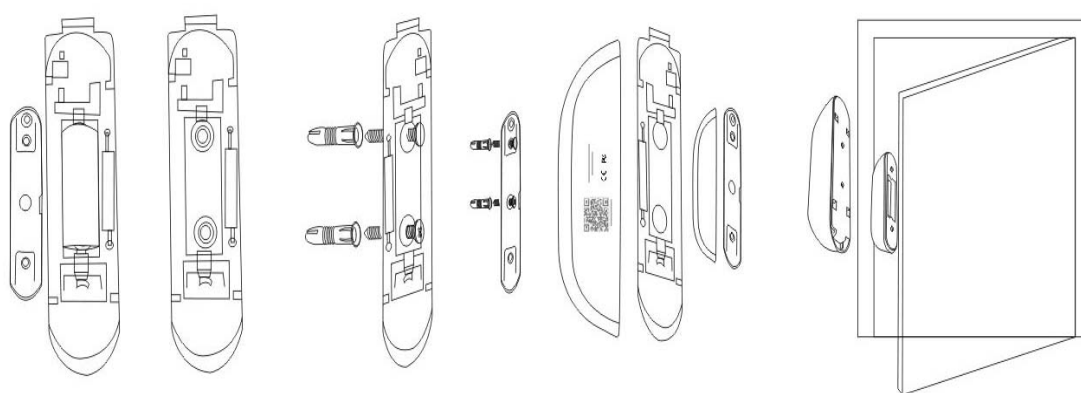
- Contact sensor Installation
- Battery Installation

Contact sensor Installation

- **Option One**

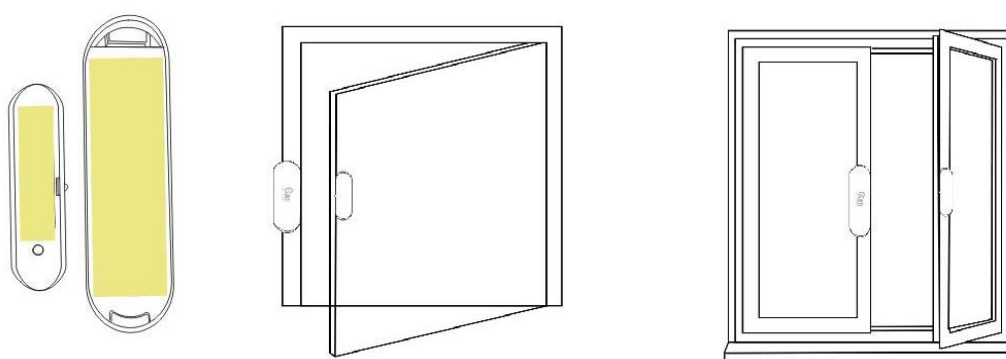
Disassemble the contact sensor main body and take out battery, fix it on the door with screws.

Disassemble the contact sensor deputy body and fix it on the corresponding door frame position



- **Option Two**

Put the sticker on the bottom of contact sensor to fix it on the wall



NOTE

When installing the contact sensor, contact sensor deputy body must be installed on the bulge side of the Contact sensor main body.

Battery Installation



Disassemble from here

Disassemble the contact sensor main body



Install battery



Assemble the contact sensor main body

Tips

- When the door is closed, and the distance between the contact sensor main body and the contact sensor deputy is less than 2cm, the alarm gateway displays the door is closed perfectly.
- When the door is opened, the distance between the contact sensor main body and the contact sensor deputy body is more than 2cm, LED light flash and contact sensor sends messages to the alarm gateway, the alarm gateway displays the door is open and alarms.
- Valid distance of contact sensor is 2cm, so when install, please pay attention to the trigger surface, it is triggered by point to point.
- Make sure of that contact sensor is in the alarm gateway's network.

The status of LED

1. When the contact sensor is triggered, LED light flashes red for 1 times.
2. When the contact sensor installs battery, LED light will flash red for 5 times.
3. Quickly, triple click the code button ,add the contact sensor to the Z-WAVE network or delete contact sensor from Z-WAVE network , LED light flashes red for 5 times.
4. Press on the code button for 10 seconds, the contact sensor will be restored to factory default settings, LED light flashes red for 1 times.
5. In the normal condition, the LED light keeps being out.

Associations

This has the effect that when the sensor is triggered, all devices associated with the sensor will receive the relevant reports. Through an association the sensor may control another Z-Wave network devices, e.g. the alarm device, wall plug, lamp etc.

The Contact Sensor supports two linkage groups:

Linkage group 1 is assigned to the device status - sending the BASIC SET control frame to the associated devices having detected motion.

Linkage group 2 reports relay's status to just one device, Z-Wave network's main controller by default. It's not recommended to modify settings of this association

NOTE

Contact Sensor linkage with other devices through Z-wave network directly, alarm gateway or Z-wave controller does not take part in such communication.

Restore the Sensor (contact sensor) to Factory Default Settings

Reset will delete all information on the Z-Wave network or Z-Wave controller, and restore the sensor to factory default settings.

1. Remove the cover of contact sensor main body.
2. Make sure the sensor is connected to power source.
3. Press and hold the reset button for 10 seconds, LED light will flash red for 1 time.
4. Release the button.

NOTE

When the Contact Sensor is being restored to factory default settings, please make sure power source is connected.

Battery Usage Tips

Battery life of the contact sensor is approximately 10 years at factory default settings. The current battery level is displayed in the gateway. Red battery icon means the battery needs replaced. In order to avoid tamper detection, while replacing the battery, please disconnect the association of the contact sensor with other devices.

Note

Contact sensor is battery powered. Using batteries other than specified may result in explosion. Dispose of properly, please observe environmental protection rules.

Advanced Configuration

1. Configuring the OFF Delay

This configuration parameter that can be used to adjust the amount of delay before the OFF command is transmitted. This parameter can be configured with the value of 0 through 65535, where 0 means send OFF command immediately and 65535 means 65535 seconds of delay.

Function: On/Off Duration.

Parameter Number: 1.

Parameter Size: 2 Byte

Available Settings: 0-65535 (in seconds, each 1s).

Default Setting: 30 (s)

2. Basic Set Level

Basic Set Command will be sent where contains a value when the door/window is opened or closed, the receiver will take it for consideration; for instance, if a lamp module received the Basic Set Command of which value is decisive as to how bright

of dim level of lamp module shall be.

Function: Basic Set

Parameter Number: 2

Parameter Size: 1 Byte

Available Settings: 0, 1 - 99 or 255

0 – OFF, Alarm cancelling or turning a device off

1 - 99 or 255 – ON (Binary Switch Device)

Dim Level (Multilevel Switch Device)

Default Setting: 99

Command Classes

This Sensor(Door/Windows Detector) supports Command Classes as Below:

- * COMMAND_CLASS_ZWAVEPLUS_INFO (V2)
- * COMMAND_CLASS_VERSION (V2)
- * COMMAND_CLASS_MANUFACTURER_SPECIFIC (V2)
- * COMMAND_CLASS_DEVICE_RESET_LOCALLY (V1)
- * COMMAND_CLASS_POWERLEVEL (V1)
- * COMMAND_CLASS_BATTERY (V1)
- * COMMAND_CLASS_ASSOCIATION (V2)
- * COMMAND_CLASS_ASSOCIATION_GRP_INFO (V1)
- * COMMAND_CLASS_WAKE_UP (V2)
- * COMMAND_CLASS_NOTIFICATION (V4)
- * COMMAND_CLASS_SENSOR_BINARY (V2)
- * COMMAND_CLASS_CONFIGURATION (V1)

Guarantee

1. The Guarantee is provided by Shenzhen NEO Electronics Co., Ltd (hereinafter “Manufacture”).
2. The Manufacturer is responsible for equipment malfunction resulting from physical defects (manufacturing or material) of the device for 12 months from the date of its purchasing.
3. During the Guarantee period, the Manufacturer shall remove any defects, free of charge, by repairing or replacing.
4. In special cases, when the device cannot be replaced with the device of the same type (e.g. the device is no longer available in the commercial offer), the Manufacturer may replace it with a different device having technical parameters similar to the faulty one. Such activity shall be considered as fulfilling the obligations of the Manufacturer. The Manufacturer shall not refund money paid for the device.
5. The guarantee shall not cover:
 - mechanical damages (cracks, fractures, cuts, abrasions, physical deformations caused by impact, falling or dropping the device or other object, improper use or not observing the operating manual);
 - damages resulting from external causes, e.g.: flood, storm, fire, lightning, natural disasters, earthquakes, war, civil disturbance, force majeure, unforeseen accidents, theft, water damage, liquid leakage ,battery spill, weather conditions, sunlight, sand, moisture, high or low temperature, air pollution
 - damages caused by malfunctioning software, attack of a computer virus, or by failure to update the software as recommended by the Manufacturer;

FCC NOTE:

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.

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS OR CHANGE TO THIS EQUIPMENT. SUCH MODIFICATIONS OR CHANGE COULD VOID THE USER’S AUTHORITY TO OPERATE THE EQUIPMENT

Shenzhen NEO Electronics Co., LTD

Address: 6TH Floor, Building No.2, Laobing Industrial Park, Tiezhai Road Xixiang, BaoAn District, Shenzhen, China.

Http://www.szneo.com

Tel: +86-4007-888-929

Fax: +86-755-29667746

E-mail: support@szneo.com