



Cat's Eye Door Sensor ZWBCCEDS-AUS

The Cat's Eye Door Window Sensor ZWBCCEDS-AUS is a Z-Wave™ Plus product that supports Security and OTA. These are the newest features of Z-Wave™ technology. Z Wave™ is a wireless communication protocol designed for home automation, specifically to remotely control applications in residential and light commercial environments. The technology uses a low power RF radio embedded or retrofitted devices fitted into home electronic devices and systems such as lighting, home access control, entertainment systems, environment control and household appliances.

This product can be included and operated in any Z-Wave™ network with other Z-Wave™ certified devices from other manufacturers and/or applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor which increases the reliability of the network.

The device adopts the Z-Wave™ 500 series chip. When your Z-Wave™ network is made up of all Z-Wave™ series devices, the network system will have the following advantages.

- Concurrent multi-channel support which reduces external interference.
- Better RF range, improved about 10 meters in indoor environments
- Supports 100 Kbps transmit speed, speeds up communication.

Product Introduction

The Door sensor is an intelligent security device that can transmit through the Z-Wave network. In a Z-Wave network communications, the door sensor can be connected to any Z-wave main controller. The Door sensor can send messages to the Z-wave main controller, and also associate with other devices through the Z-wave main controller. In the communication with the Z-wave main controller, the door sensor can send messages to the Z-wave main controller, but it cannot receive messages from the Z-wave main controller. When the sensor is triggered it sends messages to the Z-wave main controller, the Z-wave main controller will display the current status of door sensor, so the door sensor can associate with other devices.

The Door sensor is battery powered and is small enough to be installed on a window or door with ease.

Technical parameters

- Power: CR14250 x1
- Standby current: 1uA
- Battery life: 10 years at Factory default settings.
- Radio Protocol: Z-wave
- Compatible with 300 series and 500 series

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.

Including Sensor (Door sensor) to Z-Wave Network

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

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

Excluding Sensor (door 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.

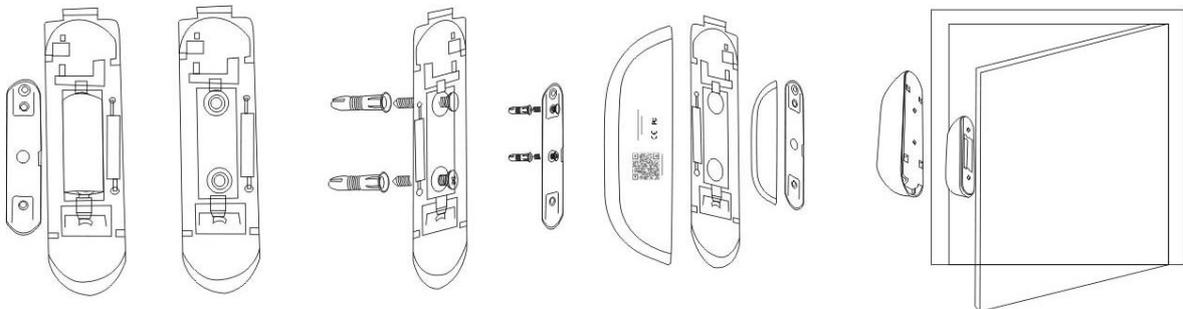
Installation Steps

1. Door sensor Installation
2. Battery Installation

Door sensor Installation

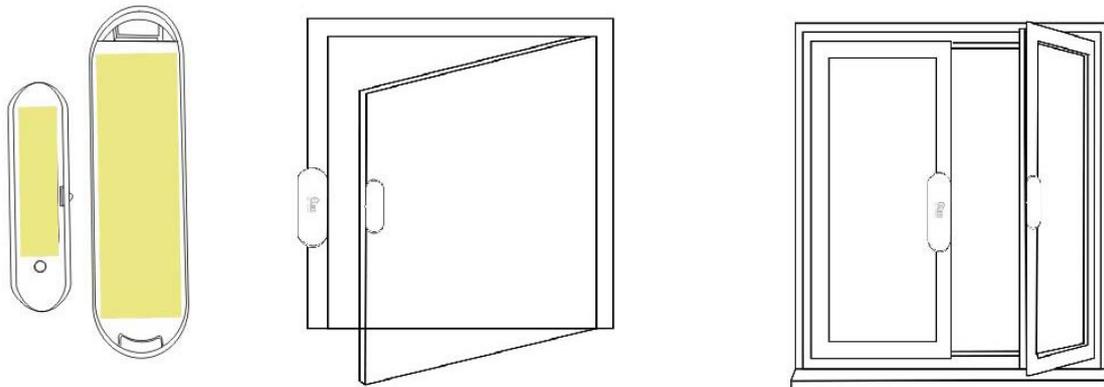
Option One

1. Disassemble the door sensor main body and take out battery, fix it on the door with screws.
2. Disassemble the door sensor deputy body and fix it on the corresponding door frame position



2. Option Two

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



NOTE:

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

Battery Installation



Disassemble the door sensor Install battery, assemble the door main body .

Advice:

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

The status of LED.

1. When the door sensor is triggered, LED light flashes red once.
2. When the door sensor installs battery, LED light will flash red 5 times.
3. Triple click the code button, add the door sensor to the Z-WAVE network or delete door sensor from Z-WAVE network , LED light flashes red 5 times.
4. Press on the code button for 10 seconds, the door sensor will be restored to factory default settings, LED light flashes red once.
5. In the normal condition, the LED light is not illuminated.

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 Door Sensor supports two groups:

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

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:

Door Sensor associates with other devices through Z-wave network directly The alarm gateway or Z-wave controller does not take part in communications.

Restore the Sensor (door 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 door 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 once.
4. Release the button.

NOTE

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

Battery Usage Tips

Battery life of the door 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 to be replaced. In order to avoid tamper detection, while replacing the battery, please disconnect any association of the door sensor with other devices.

Note

Door 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)



FCC ID: Z52NAS-DS01Z

For Indoor Use only.

Specifications are subject to change without notice due to continuing product development.

www.blackcatcontrolsystems.com.au

Date: 27/08/2016

Document: Black Cat Cat's Eye 2in 1 Sensor User Manual

Version 1.1

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FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital module, 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 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 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 module complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This module may not cause harmful interference, and
- (2) This module must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.