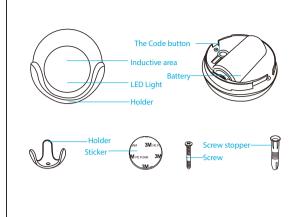
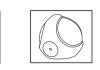


# **Product Configuration**



# Installation Steps

Fix PIR in the Holder **Holder Installation** 



Fix the holder with Put the sticker on the bottom of door sensor screws and screw then fix it on the wall.

## **Battery Installation**

5 and 8. This Group Support:BASIC\_SET

devices in this group. This Group Support:

SENSOR\_BINARY\_REPORT\_V2

stopper.



group is configured through the advanced parameters no. 2, 3,

**GROUP 3** allows Sending Notification to associated devices in

this group. This Group Support:NOTIFICATION\_REPORT\_V4

**GROUP 4** allows Sending Sensor Binary Report to associated



the ground. 3. When install PIR, please keep it far away from places where air

Tips

temperature changes sensitively, e.g., around air conditioners, refrigerators, stoves and so on

1. Make sure PIR placed within the Z-Wave network range of

2. PIR is recommended to be fixed at the height of 2-4 meters off

4. Furniture, large bonsai or other spacers shouldn't be placed within PIR's detection area

5.When installing PIR, please keep it away from stairs, elevators and other obstructions. Make sure these obstructions are outside of PIR's detection area

6. After instaling PIR, please test whether PIR works properly or not, if there is false alarm from PIR, please install PIR in another place.

7. Direct association can be allowed between PIR and other Z-Wave network devices if preset association functionality. Z-Wave gateway will not take part in such communication. Using this mechanism, PIR can communicate with other devices even when gateway is damaged.

The following information is for someone that has some experience in setting

up a Z-Wave system or someone that has computer software running a Z-Wave

This parameter defines the sensitivity of PIR sensor. At the first time of test, it is

recommended to test the sensor with movements from a farthest end of the

coverage area. If movements cannot be detected sensitively, simply adjust the

sensitivity level by changing this parameter. This parameter can be configured

This parameter can determine how long the associated devices should stay ON

status. For instance, this parameter is set to 30(second), PIR sensor will send a

BASIC SET Command to an associated device with value basic set level if PIR

sensor is triggered, and the associated devices will be turned on, and stay in

this status for 30(second) before it is turned off automatically. This Parameter

with the value of 8 through 255, where 8 means highest sensitivity and 255

controller or Z-Wave Gateway. Please get familiar with software of Z-Wave

**Advanced Configuration** 

controller or Z-Wave Gateway before getting started.

1. Sensitivity Level Setting

means lowest sensitivity.

Parameter Number: 1

Default Setting: 12.

2. On/Off Duration

Parameter Size: 1 Byte.

Available Settings: 8 - 255

Function: Sensitivity Level Setting.

# Battery Usage Tips

Battery life of motion sensor is approximately 1 year. The power level of battery would be displayed in the gateway. Red icon means the battery needs replacing, and then mobile app would receive a message "power level is low, please remember to replace battery" from gateway. In order to avoid false alarm, before replacing battery, please disconnect association of motion sensor with other devices.

Note:PIR motion sensor is powered by battery, and please use battery in a correct way to avoid exploding When handling the battery, refer to environmental law please.

### Detection Range

PIR has to be installed in a corner of room or perpendicularly to

Actual detection range of this sensor can be influenced by environment conditions. If there are false alarms reported, check if there are any moving objects within sensor's detection area, such as trees blowing in the wind, cars passing by, windmills. False motion alarms may be caused by masses of moving air and heat as well. If sensor keeps on reporting false alarms, despite eliminating all of

# Associations

This Sensor supports 4 association groups; each group supports max 4 associated nodes. This has the effect that when PIR sensor is triggered, all devices associated with it will receive relevant reports. Through association, PIR sensor can control another Z-Wave network device, e.g. a alarm device, wall plug, lamp etc. Every group can be supported to associate 4 devices max.

**GROUP 1** is lifeline service that assigned to motion sensor status – Open/Close. It enables PIR sensor to send reports and readings to Z-Wave Controller or Z-Wave Gateway whenever the sensor is triggered. This Group Support: NOTIFICATION REPORT V4 SENSOR\_BINARY\_REPORT\_V2 SENSOR MULTILEVEL REPORT V7 BATTERY\_REPORT DEVICE\_RESET\_LOCALLY\_NOTIFICATION

GROUP 2 allows sending control commands to associated devices such as relay module, lighting, etc. This association

Command:NOTIFICATION\_REPORT Notification Type: NOTIFICATION TYPE HOME SECURITY Event:NOTIFICATION\_EVENT\_HOME\_SECURITY\_MOTION\_DETECTION\_UNKNO WN LOCATION Event Clear: Command Class: COMMAND\_CLASS\_NOTIFICATION, Command:NOTIFICATION\_REPORT, Notification Type: NOTIFICATION TYPE HOME SECURITY, Event:NOTIFICATION\_EVENT\_HOME\_SECURITY\_NO\_EVENT

#### **Binary Sensor Report Command:**

Event Present: Command Class: COMMAND CLASS SENSOR BINARY Command:SENSOR BINARY REPORT Sensor Type:SENSOR MOTION Value:0vEE Event Clear: Command Class: COMMAND\_CLASS\_SENSOR\_BINARY Command:SENSOR BINARY REPORT Sensor Type:SENSOR MOTION Value:0x00

## Multilevel Sensor

This device embeds in a digital light sensor and a digital temperature sensor. The device measures the ambient light intensity and temperature with a certain time interval that decides by configuration No.7 and No.10.

#### Light Sensor Report

Command Class: COMMAND CLASS SENSOR MULTILEVEL Command: SENSOR MULTILEVEL REPORT Type: Luminance Scale: Lux

## **Temperature Sensor Report**

Command Class: COMMAND\_CLASS\_SENSOR MUL Command: SENSOR MULTILEVEL REPORT Type: Air Temperature Scale · Celsius

## Wakeup Command Class

Motion sensor stays in sleep status for the majority of time in order to conserve batterv life. The minimum wakeup interval is 300s he maximum wakeup interval is 16,777,200s (about 194 days) Allowable interval among each wakeup interval is 60second, such as 360, 420,480... Note: The default value is 12 hours. This value is longer, the battery life is greater

#### Battery Check Command

Users can also enquire the battery status of motion sensor by sending BATTERY\_GET command. Once motion sensor receivers the command, it will return BATTERY REPORT command. Motion Sensor will send BATTERY LEVEL = 0xFF command to Z-Wave gateway to inform that motion sensor is in dead battery status, otherwise BATTERY\_LEVEL value range is 0% to 100%.

## Command Classes

This Sensor(Motion 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)
- \* COMMAND CLASS SENSOR MULTILEVEL (V7)

#### value must be large than Parameter 6#. Function: On/Off Duration Setting Parameter Number: 2 Parameter Size: 2 Byte Available Settings: 5 - 600(second) Default Setting: 30

#### 3. Basic Set Level

Basic Set Command will be sent where contains a value when motion sensor is triggered, Z-Wave gateway will take it for consideration; for instance, if a lamp module is received the Basic Set Command of which value is decisive as to how bright of dim level of lamp module shall be. This Parameter is used to some associated devices. Function: Basic Set Leve Parameter Number: 3 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: 255 4. PIR Detecting Function Enabled/Disabled

This parameter can enable or disable PIR detector detecting function. Function: Enabled/Disabled PIR Function Parameter Number: 4 Parameter Size: 1 Byte Available Settings: 0 or 255.0 – Disable PIR Detector Function:255 – Enable PIR Detector Function Default Setting: 255

# Guarantee

1. The Guarantee is provided by our company (hereinafter "Manufacture") 2. The Manufacturer is responsible for equipment malfunction resulting from physical defects (manufacturing or material) for 12 months from the date of its purchasing

3. During the Guarantee period, the Manufacturer shall repair or replace any defects, free of charge.

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 which has similar technical parameters as 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:

a. 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)

b. 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 c. damages caused by malfunctioning software, attack of a computer virus, or by failure to update the software as recommended by the Manufacturer.



All above is for reference only, please see the subject products