

# Curtain Style Motion Detector With Direction-recognition Installation Guide

## 1.introduction On Products

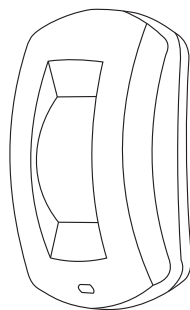
It curtain style motion detector with direction-recognition adopts dual-element PIR sensor combined with advanced soft-processing technology, can recognize intruder's get in and out direction. It uses bi-directional temperature-compensation technology, can make accurate intrusion detection in a wide detection range. This detector is with super low failed alarm and false alarm rate, at the same time, it is with alarm delay function for convenient activity in terrace when installed on terrace or windows. In addition, it is also functioning remarkably in anti fictitious movement from hot-air, window blind swaying etc. It detector is elegant in appearance and flowing in lines, can match with modern smart home environment perfectly. Its installation is very convenient, is suitable for terrace, door and window installation. Its function and stability exceeds other PIR detector with similar price in the market!

## 2.Main Function

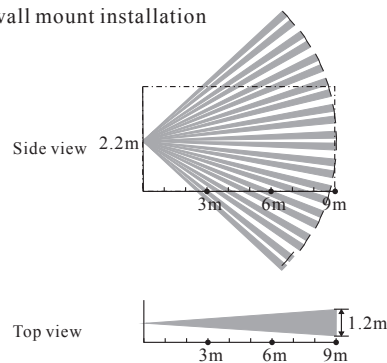
- Alarm direction for optional change
- Alarm delay for option
- 4 alarm delay times for option
- Alarm output NO/NC for option
- Bi-directional temperature compensation
- Surface mount installation
- EDS/anti electric shock/anti mobile interference
- Anti white light interference
- Fully-sealed optical parts
- Multiple installation methods for option

## 3.Technical Parameter

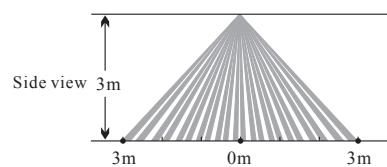
|                      |                                                 |
|----------------------|-------------------------------------------------|
| Power supply:        | 9-16VDC                                         |
| Power consumption:   | NO output: 4.5mA stand by;<br>20mA during alarm |
|                      | NC output: 9mA stand by;<br>16mA during alarm   |
| Installation height: | 4m max (Ceiling mount)                          |
| Installation ways:   | wall mount/ceiling mount(suggested)             |
| Coverage:            | 9m×1.2m 10°                                     |
| Alarm time:          | 3s                                              |
| Alarm delay:         | On/off for option                               |
| Delay time:          | 40s/2min/4 min /10min optional                  |
| Alarm direction:     | can be changed                                  |
| Anti RFI/EMI:        | 0.1-500MHz/3V/m                                 |
| Anti white light:    | >10000LUX                                       |
| Alarm output :       | NO/NC optional                                  |
| Alarm capacity:      | 100mA/24V                                       |
| Tamper capacity:     | 100mA/24V                                       |
| Temperature:         | -20℃/+50℃                                       |
| Humidity:            | 95%RH                                           |
| Detect speed:        | 0.2m/s to 3.5m/s                                |
| Dimensions:          | 90mm×51mm×38mm                                  |



wall mount installation

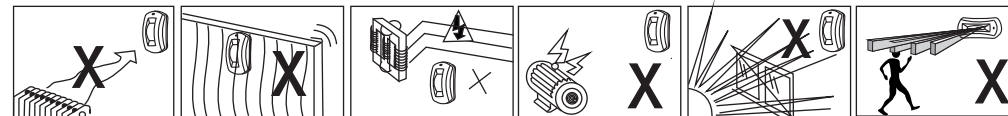


ceiling mount installation(suggested)



## 4. Installation Guide

Select best installation position suitable for PIR detection and install It detector on proper position, keep away from various machines and hot/cool source interference



Don't face detector to cold/heat source

Installation base should be stable

Keep away from high-pressure cable

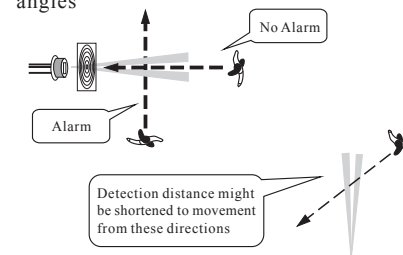
Keep away from strong EMI interference

Don't face directly to the sun

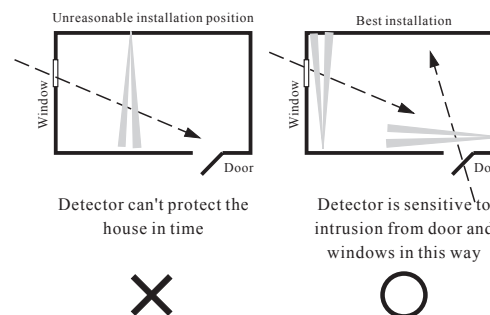
Wrong installations (Without direction recognition)

### On installation angle

Detection is with mechanical difference to intrusion angles



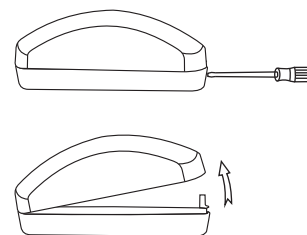
### On installation position



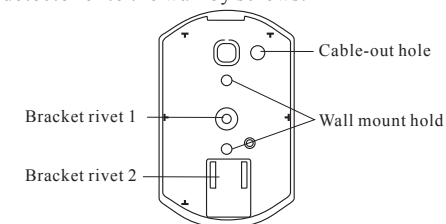
## 5.Installation & Internal Parts

### Wall mounting

Open detector housings with plat screw driver as figure, and then loose the screws on PCB by small screw driver (No need to loose out screws completely) , take down the PCB and then detector is ready for installation.

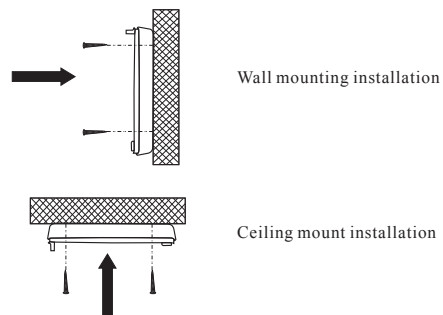


In order to get best detection range, please install detector to proper height. In a word, make sure that there is no obstacle and wide view angle. According to actual needs, plan a proper "hole installation" way and mark relevant holes on wall before drilling 2 holes with 6mm. Strike 2 compatible "rubber stoppers" into the holes on wall in order to fasten detector onto the wall by screws.

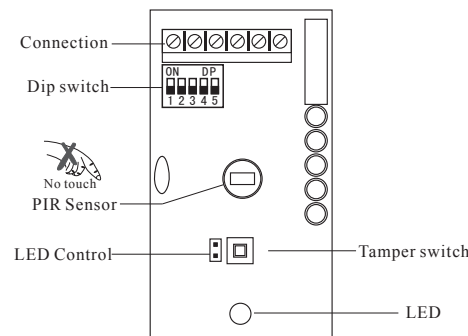


## Installation ways

Select suitable installation way according to actual status (Below figure for option)



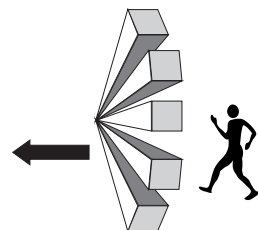
## Internal parts



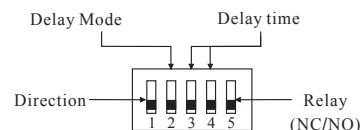
## Walking test

Walking test: after power connected, detector needs around 40 seconds warming time. Walking test can be performed only after warm-up is finished.

In the intentional protection area, make repetitive “Z” walking horizontally in order to confirm detector detection direction and obtain best PIR detection area to avoid dead corner detection. If walking test is nonconforming to protection requirement, please adjust detector's angle, height etc. If its detection direction is reverse to required direction, please adjust dip switch “1” in order to get needed alarm detection direction.



## Position of code switch



## 1. Switch of direction recognition

When dip switch “1” is set to “ON”, alarm direction is reverse to that when set to “OFF”.

When direction-select dip switch “1” is changed, detector detection direction and alarm delay direction will be changed. (From right to left or from left to right)

## 2. Turn on DELAY function:

When dip switch “2” is set to ON position, alarm delay function will be turned on.

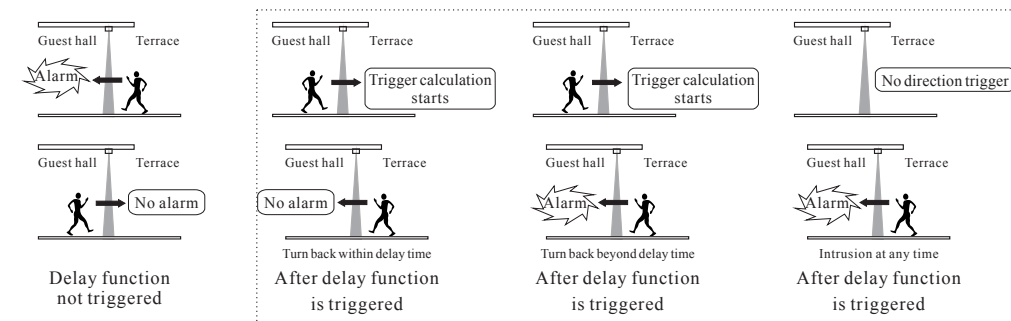
Please read the below introduction of DELAY function in order to confirm when you need DELAY function. If DELAY function is not required, please don't set dip switch to “ON”; if it is necessary, please refer to below DELAY function setting.

## ALARM DELAY function introduction:

Detector can recognize intrusion movement direction, for example, when user is going out or indoor activity triggers detector, it will make calculation on DELAY time (40sec/2min/4min/10min for option). If detector is triggered continuously, delay calculation function will make time calculation starting from “0”, then detector will not be triggered; but if continuous “NO TRIGGER” status exceeds setting delay time, and there is intrusion signal coming from outside, for example, intruder climb in from window or come in from the door, detector will be triggered and red LED will turn on.

## Application examples on ALARM DELAY function:

Install curtain detector between guest hall and terrace, intrusion direction is from terrace to the guest hall, and DELAY TIME setting is 4 minutes, detector is in ARM status. When man is going out from guest hall to terrace (like drying clothes or smoking), delay calculator will be triggered, if man comes back to guest hall within 4 minutes, detector will not be triggered; but if he comes back to guest hall beyond 4 minutes, detector will be triggered. If there is nobody coming out from guest hall to trigger delay calculator, any entrance to guest hall from terrace at any time will trigger detector.



## 4. Relay output setting:

Dip switch “5” is set to “ON”, alarm output turn to NO

Alarm output status can be changed by dip switch 5 between NO and NC. Among which, NO output status can be used to trigger equipment in VCR, CCTV, ACCESS CONTROL SYSTEM.

## 7. Notes And Warnings

Even the most sophisticated detectors can sometimes be defeated or may fail to warn due to :DC power failure/improper connection, malicious masking of the lens , tampering with the optical system, decreased sensitivity in ambient temperatures near that of the human body and unexpected failure of a component part . The above list includes the most common reasons for failure recommended that the detector and the entire alarm system be checked weekly, to ensure proper performance . An alarm system should not be regarded as a substitute for insurance. Home & property owners or renters should be prudent enough to continue insuring their lives & property, even though they are protected by an alarm system.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant harmful interference in residential installations . This equipment generates , uses and can radiate radio frequency energy and , if not installed and used in accordance with the ins-tructions , may cause harmful in-terference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation . If this device does cause such interference , which can be verified by turning the device off and on , the user is encoura-ged to eliminate the interference by one or more of the follow ingmeasures:

- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one that supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

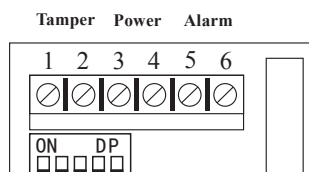
WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user s authority to operate the equipment.

## 6. Different Settings & Walking Test

### Connection

For cable connection, please use the cable lead hole on the left upside of detector.

- 1.Connect “1, 2” terminals (NC tamper switch terminal) to 24-hour zone on control panel in order that tamper alarm can be triggered when detector front cover is opened
- 2.Connect “5, 6” terminals to NC zones on control panel in order that alarm will be triggered when intruder is detected or power supply is damaged. (During No status, situation will be on the contrary as NC status.)
- 3.Connect 9-16V DC power to “3, 4” terminals (care for polarities). Please connect back-up power, stand-by static current is: 9mA@NC; 4.5mA@NO
4. All hatches are suggested to be filled by rubber filler or glue after installation.



### Alarm LED control

When jumper pin is set to OFF mode, even detector is triggered, LED will not turn on. This is just for detector concealment and energy saving purpose. (Suggested). After walking test, user can choose turn on or turn off the alarm LED.

