

wall mounted Bluetooth PIR Detector User Guide

I Introduction

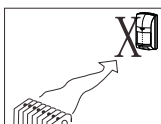
It is a passive infrared intrusion sensor that adopts Energy Integration Logical Processing, Random Dynamic Time Segmentation & Digital Signal Processing Technologies. With precise columnar Fresnel lens, the Sensor can increase its energy receiving efficiency and sensitivity without false alarm. In conjunction with advanced software technology, it will make an accurate judgement between real intruder & interference factors that may cause false alarm. Superior ability to detect & prevent false positives. The pulse number is optional, suitable for kinds of residential constructions, preventing false positive & false negative that other ordinary indoor sensors cannot do. Its performance is far beyond other ordinary PIR alarms. Besides, we use large capacity built-in battery & special power saving solution, battery working life is above 2 years.

II. Features

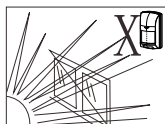
- Adopt imported Heimann sensor from Germany with high sensitivity
- Fuzzy logic arithmetic and obscure identification technology .
- Detection sensitivity can be set and applied in different occasions
- With battery level monitoring function, low battery & tamper reports.
- With sealed induction cavity design, prevent false alarm caused by thermal current interference.
- Ultra-low power consumption and super-long standby, battery lifespan can arrive to 2-3 years

III. Installation

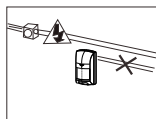
3.1 Installation Guide



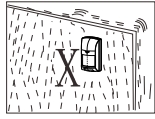
Don't face hot/cold source



Avoid direct sunshine



Away from high-voltage cable



Don't install on the unstable place



Don't face to the metal wall

3.2 DIP Switch Description

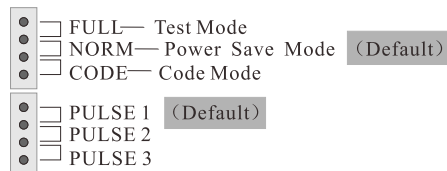
It can be set 3 types of operation modes as below:

Test Mode: Alarm will only be triggered again with above 5s interval from its first alarm. It will send monitoring signal every 15mins to report conditions of detector and battery.

Power Save Mode: Alarm will only be triggered again with above 3min interval from its first alarm. It will send monitoring signal every 65mins to report conditions of detector and battery.

Code Mode: Send identification signal to receiver after pressing tamper switch for 3s at least.

Jumper Setting:



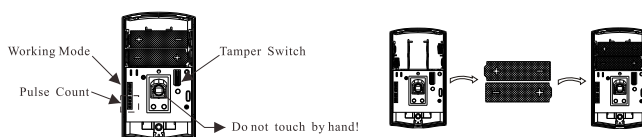
It has the following 3 types of pulse options:

PULSE 1: The Sensor alarms when it detects one pulse.

PULSE 2: The Sensor alarms when it detects two pulses.

PULSE 3: The Sensor alarms when it detects three pulses.

The higher the pulse count is, the lower the sensitivity will be, but high pulse count can reduce false alarm.



3.3 LED Indicator

LED light will flash once detector sends signal

IV. Walking Test in Detection Area

1. Set the tamper to Test Mode to perform walking test. Pulse count can be set by PULSE 1, 2, 3.
2. Walk breadthwise from any direction at the remote detection coverage at the speed of 0.75m/s, then the LED indicator flashes for 1 second and alarm triggered. (As the right picture)
3. Test in different direction to confirm the two boundaries of detection. Ensure the sensor rightly points to the central detection zone.
4. The center of detection zone should not uphill inclined. In order to obtain a good detection range, please adjust the vertical detection range, to ensure the Sensor is in right position.
5. Perform the walk test again as above when you have adjusted the detection range.
6. When the Sensor passed the walking test, please adjust the Test Mode to Power Save Mode.

Please don't invert the Sensor while installation, here advice user to make walk test every week.



Static current(MAX)	15uA
Transmit current(MAX)	30mA
Dimension	110*62*47mm (L*W*H)
Receive sensitivity	-96 dBm
Communication protocol	BLE4.1
Frequency band	2.4GHz
Max communication distance	100m
Working voltage	DC3V 2pcs AA alkaline battery
Infrared area	11+8+6+5
Alarm indicator	LED status indicator
Output signal type	alarm report, tamper report, low battery report, heartbeat report
Working humidity & temperature	-10℃ ~ 50℃; ≤95%RH no condensation
Maximum coverage area	10m*10m
Installation height	2.2m~2.7m
Anti-white light interference	6500LUX

FCC STATEMENT :

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.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.