



AT-806 Wide Angle PIR Motion Sensor User Manual

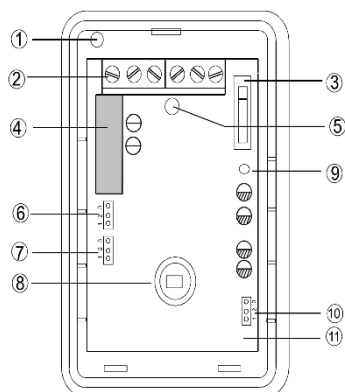
Please read it carefully before using

1. Product Overview

This product is a wide angle PIR motion sensor. It has adopted advanced technology in signal processing and provided super high detection ability and anti-false alarm. When an intruder passes through the detection area, the sensor will automatically detect human activities in the area and send an alarm signal to the alarm control panel.

This product is suitable for the safety protection of family residential areas, real estate villas, factories, shopping malls, warehouses, office buildings and other places.

2. Product Structure Diagram



- | | |
|-----------------|--------------------------------|
| ① Outlet Hole | ⑦ Relay Jumper |
| ② Terminal | ⑧ Dual Element Infrared Sensor |
| ③ Tamper Switch | ⑨ Thermistor Resistance |
| ④ Relay Jumper | ⑩ PULSE Jumper |
| ⑤ LED Indicator | ⑪ PCB |
| ⑥ LED Jumper | |

3. Features

- Intelligent logic control, anti-false alarm efficiently
- Auto temperature compensation
- Pulse count adjustment
- Anti-white light interference
- Anti-RF interference(20V/m-1GHz)
- Fresnel lens
- Wall/ceiling installation
- SMT design adopted
- Alarm output N.C. / N.O., Anti RF interference

4. Technical Indicators

Operating Voltage:	DC9-16V
Quiescent Current:	≤18mA(DC12V)
Detection Distance:	12m
Detection Angle:	110°
Self-test Time:	About 60s
Alarm Indication:	Red LED

8. Function Jumper Settings

(1). Relay Jumper: Choose NC or NO to set the state of alarm output. You should choose different alarm output in accordance with alarm control panel.

Select 1&2: N.O.

Select 2&3: N.C. (Factory-set)

(2). Pulse Jumper: You can adjust the sensitivity and anti-RF interference by choosing the pulse jumper.

Short 1&2: class 1 pulse, the sensitivity is highest, adapt to general environment.

Short 2&3: class 2 pulse, anti-RF interference is high, adapt to the environment with strong RF interference.

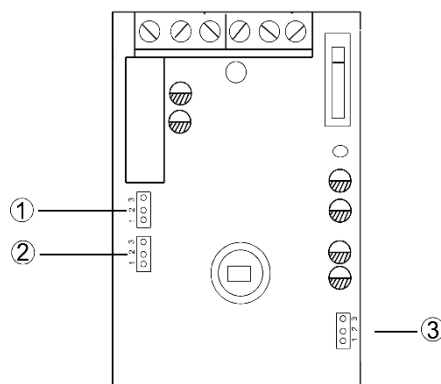
Disconnection: class 3 pulse, the sensitivity is lower, and the anti-RF interference is the highest, adapt to the environment with exceeding RF interference.

(3). LED Jumper: Control LED indicator, without effect of sensor normal work.

Short 1&2: set LED ON

Short 2&3: set LED OFF

Schematic Diagram of Jumper Settings



- | | | |
|----------------|--|---------------|
| ● LED jumper | | disconnection |
| ● RELAY jumper | | 1&2 |
| ● PULSE jumper | | 2&3 |

Sensor:	Dual element pyro-infrared sensor
Operating Temperature:	-10°C~+50°C
Humidity Environment:	Maximum 95%RH (no condensation)
Anti-PF Interference:	10MHz-1GHz 20V/m
Installation Method:	Wall or corner installation
Installation Height:	1.7-2.5m (2.2m is proposed)
Alarm Output:	N.C. or N.O., DC28V, 100mA
Tamper Output:	NC, DC28V 100mA
Dimension:	52.5*38.5*89mm

5. Installation Conditions

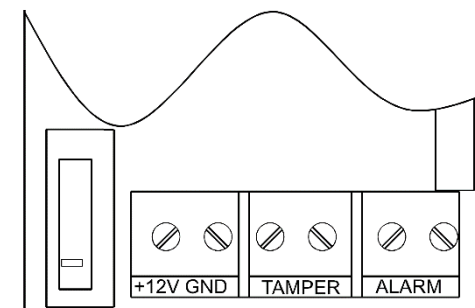
5. Installation Conditions

- (1). Avoid installing outdoors, places with pets, near air conditioners, near heat sources, places exposed to direct sunlight, or under rotating objects.
- (2). The installation surface should be solid with no vibration.
- (3). Install the sensor where intruders can easily pass through.

6. Installation Steps

- (1). Screw the sensor bottom off, then open the sensor.
- (2). Screw the PCB off and remove the PCB.
- (3). Drill a wire hole in the back cover.
- (4). Install the rear housing on the suitable position.
- (5). Connect the terminal.(as follows)

7. Wiring Diagram



+12V
GND
TAMPER
ALARM

DC power positive
DC power negative
Tamper output port
Alarm output port

9. Walking Test

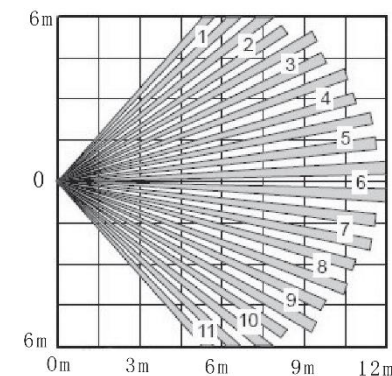
Turn on the 12V DC power supply, the LED indicator light is on, and the sensor enters the self-inspection state. The self-inspection time is about 60 seconds. When the LED indicator light is off, it means that the sensor enters the normal monitoring state. The tester should walk parallel to the wall where the wide angle PIR motion sensor is installed within the detection range, and the LED indicator light of the sensor is on, indicating that the sensor is in an alarm state. In order to enhance the concealment of the sensor, the LED indicator light can be turned off after the test is completed.

10. Precautions

- (1). Please install and use it correctly according to the instructions. Do not touch the surface of the sensor, so as not to affect the sensitivity of the sensor. If you need to clean the sensor, please disconnect the power and wipe it with a soft cloth dipped in a little alcohol.
- (2). This product can reduce the occurrence of accidents, but it cannot be guaranteed to be foolproof. For your safety, in addition to using this product correctly, you must be vigilant in your daily life and strengthen your awareness of safety precautions.
- (3). In order to ensure that the sensor can work normally, the power supply of the sensor should be maintained, and the walking test must be carried out periodically, and it is recommended to do it once a week.

Detection Range Diagram

top view



side view

