



AT-805 PIR Motion Sensor User Manual

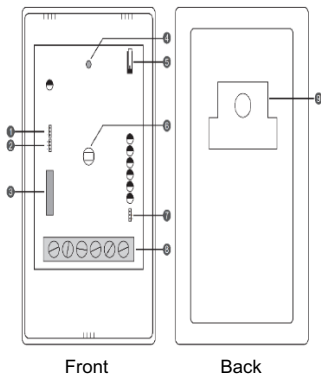
Please read it carefully before using

1. Product Overview

This product is a high-stability wide-angle PIR motion sensor. It uses advanced signal analysis and processing technology to achieve superb detection and anti-false alarm performance, and the product is stable and reliable. 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



- ❶ LED Jumper
- ❷ Normally Closed Switch
- ❸ Relay Jumper
- ❹ LED Indicator
- ❺ Tamper Switch
- ❻ Dual Element Infrared Sensor
- ❼ PULSE Jumper
- ❽ Terminal
- ❾ Bracket

3. Features

- Intelligent logic control, filtering out various false positives
- True Temperature Compensation Technology
- Bipolar pulse count adjustable
- Anti-white light interference
- Anti-radio frequency interference (20V/m-1GHz)
- Fresnel optical perspective
- Split hanging or ceiling installation
- Alarm output NC/NO selectable
- Manufactured by SMT process, the performance is more stable

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

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 (wall)
Alarm Output:	NC optional, contact DC28V 100mA
Tamper Output:	NC contact DC28V 100mA
Dimension:	83*90*110mm

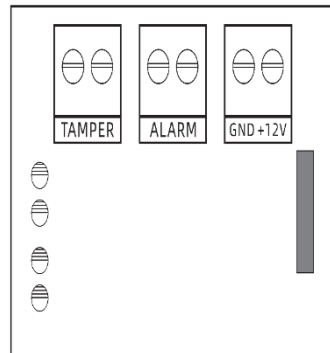
5. Installation Conditions

- (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). Open the front cover of the sensor.
- (2). Remove the circuit board.
- (3). The wires are introduced into the sensor from the wiring groove of the back cover.
- (4). Choose a suitable height to install the back cover.
- (5). Fix the circuit board.
- (6). Select the terminal block (see wiring diagram).
- (7). Install the sensor front cover.

7. Wiring Diagram



- +12V
- GND
- TAMPER
- ALARM
- DC power positive
- DC power negative
- Tamper output port
- Alarm output port

8. Function Jumper Settings

(1). PULSE jumper: Pulse adjustment jumper, the sensitivity and anti-radio frequency interference ability of the sensor can be changed by adjusting the pulse count.

Select 1&2: Class 1 pulse, high detection sensitivity, good anti-radio frequency interference ability, suitable for general environment.

Select 2&3: Class 2 pulse, with high detection sensitivity and stronger ability to resist radio frequency interference, suitable for environments with severe radio frequency interference.

Disconnection: Class 3 pulse, with low detection sensitivity and high anti-radio frequency interference capability, suitable for environments with very serious radio frequency interference.

(2). RELAY jumper: NC/NO selection jumper, used to set the alarm output state, and can choose different output states according to the specifications of different types of hosts

Select 1&2: NO. (Normally open state)

Select 2&3: NC. (normally closed state)

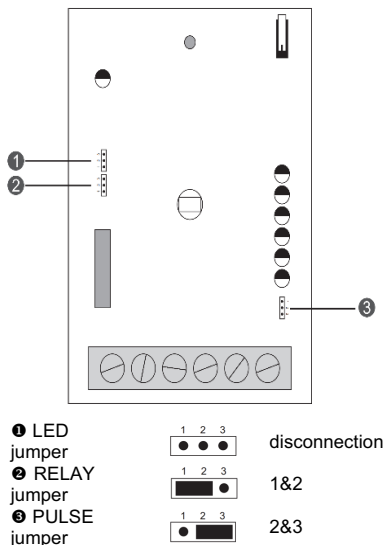
The factory setting is 2&3 NC. (normally closed state)

(3). LED jumper: used to control the LED indicator light, does not affect the normal operation of the sensor.

Select 1&2 : turn on the LED indicator;

Select 2&3 : turn off the LED indicator;

Schematic Diagram of Jumper Settings



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 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

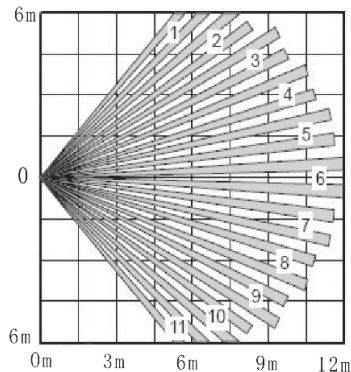
(1). Please install and use it correctly according to the instructions. Do not touch the surface of the sensor, so as not to affect the sensitivity of the sensor. If you need to clean the sensor, please disconnect the power and wipe it with a soft cloth dipped in a little alcohol.

(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.

11. Detection Range Diagram

top view



side view

