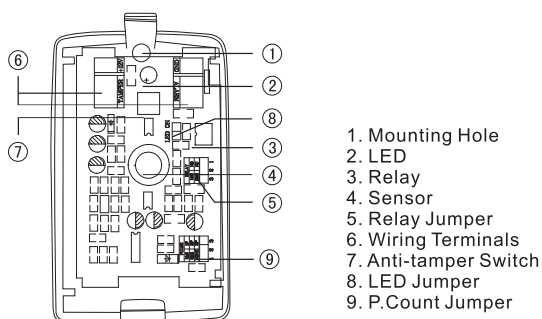# DUAL PASSIVE INFRARED DETECTOR

The Dual Passive Infrared Detector works through detecting the human body's infrared spectrum. While received the heat source signal from body's movement in the detecting area, the signal will be transmitted to the MCU after enlarged, MCU sends out the signal to control the alarm port after analyzed and calculated. The Detector is widely used in banks, warehouse, homes, etc.

GENERAL VIEW

1. Mounting Hole
2. LED
3. Relay
4. Sensor
5. Relay Jumper
6. Wiring Terminals
7. Anti-tamper Switch
8. LED Jumper
9. P.Count Jumper

TECHNICAL SPECIFICATIONS

Input Voltage	DC 9-16V
Operating Current	≤20mA (DC 12V)
Working Temperature	-10℃ －+50℃
Sensor Type	Dual Pyroelectric Infrared Sensor
Installation Method	Wall Mounted
Installation Height	2.2m
Detecting Distance	12m
Detecting Angle	150°
Pulse Count	1P, 2P, 3P optional
Anti-tamper Switch	N.C, contact capacity: 28VDC, 100mA
Relay Output	N.C, contact capacity: 28VDC, 80mA
Size	82*50*41mm

FEATURES

This product adopted 8-bit CMOS MCU, has the function of auto temperature compensation, anti white light, anti high-frequency interference. Experiments prove that the detector can work stably in 20-1000MHz high frequency interference (such as the mobile telecom).
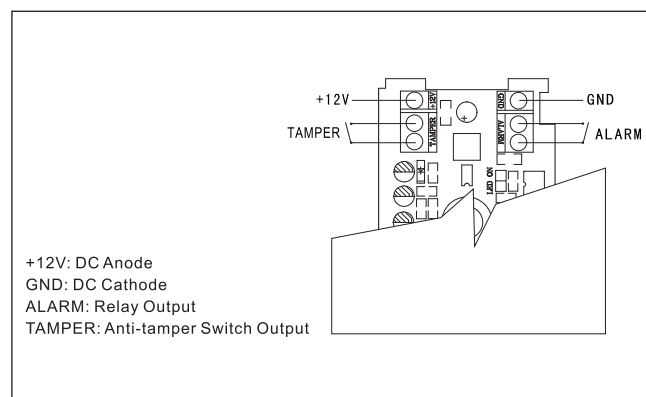
INSTALLATION AND USAGE

1. INSTALLATION

Fix the mounting bracket on the wall with screws, then insert the detector. The recommended installation height is about 2.2m, and the angle between detector and wall is 6°~12°. Do not install the detector near to air conditioner, fans, refrigerators, ovens, windows and objects cause temperature change. Avoid any object in front of the detector lens. Note: The LED must be under the lens, can not be reversed.
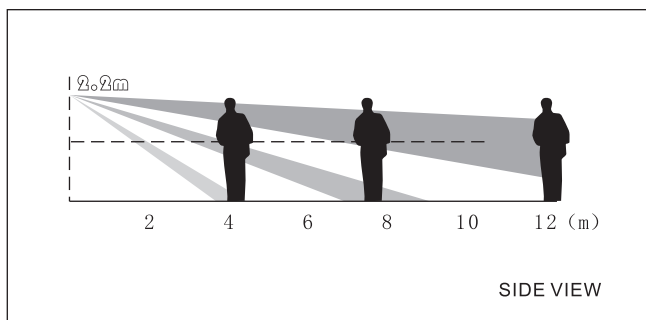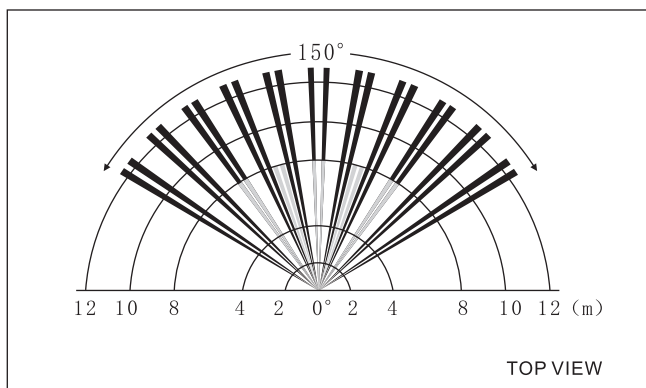
2. USAGE

a) With DC 12V power supply, in the condition of LED jumper ON (factory setting), red LED ON, detector goes into self-test state. After 60 seconds, LED OFF and detector is into detecting state.

b) To test the detector, please move with normal pace in the range of detecting coverage. Red LED ON, the detector will send out network alarm signal. LED OFF, detector gets into detecting state again.

c) Relay jumper is used to set alarm output for different alarm panels. 1&2 is for N.C (normal close), 2&3 is for N.C (normal open). Factory setting is N.C.

d) Pulse count jumper is used to choose the pulse count. 1&2 is for 1st Grade (1P) which applies for normal indoor environment, 2&3 is for 2nd Grade (2P) which applies for moderately harsh indoor environment, no jumper connection is for 3rd Grade (3P) which applies for harsh indoor environment. Factory setting is 1st Grade (1P).

e) LED jumper is used to control LED indication, no effect to detector operation.

TERMINAL BLOCK FIGURE

+12V: DC Anode
GND: DC Cathode
ALARM: Relay Output
TAMPER: Anti-tamper Switch Output

TESTING RANGE FIGURE

150°

12 10   8   4   2   0° 2   4   8   10 12 （m）

TOP VIEW

2.2m

2   4   6   8   10   12 （m）

SIDE VIEW

NOTICE

1. Please install and use the detector following the instructions. Do not touch the sensor surface, as this could result in detector malfunction. If necessary, clean the sensor surface using a soft cloth with pure alcohol.
2. Avoid using the product in the area with huge change of temperature.
3. The product can reduce the possibility of accidents, but it can not guarantee absolute safety. Besides using this product correctly, the user is advised to take all necessary precautions for safety and enhance safety consciousness in daily life.