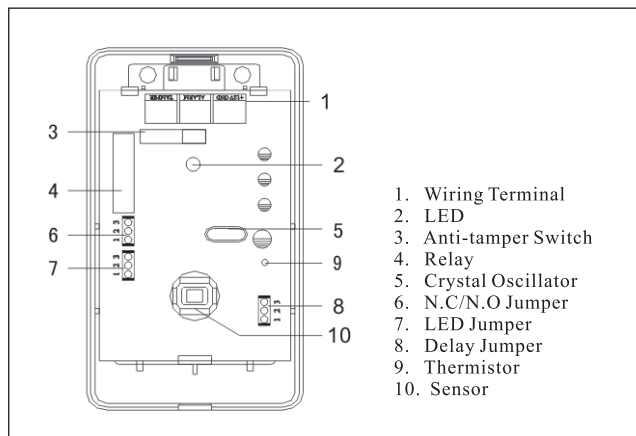# DUAL PASSIVE INFRARED DETECTOR

The Dual Passive Infrared Detector works through detecting the human bodies' infrared spectrum. While receiving the heat source signal from bodies' movement in the detecting area, the sensor will enlarge and calculate, then send out the relative signal to control the detector's alarm port. The detector is used widely in banks, warehouses, families and etc.

GENERAL VIEW

1. Wiring Terminal
2. LED
3. Anti-tamper Switch
4. Relay
5. Crystal Oscillator
6. N.C/N.O Jumper
7. LED Jumper
8. Delay Jumper
9. Thermistor
10. Sensor

CHARACTERISTIC

The Dual Passive Infrared Detector includes the following unique features:

- 8-Bit Low-power CMOS processing
- Auto temperature compensation
- Anti white light interference
- High RFI immunity: 20-1000 MHz (e.g.: mobile communication)
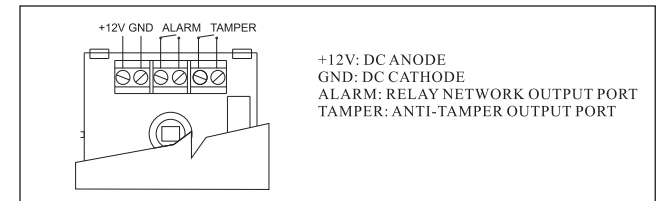- Three alarm delay jumper (1, 2, 3) for different alarm signal (30', 10', 5').

TECHNICAL SPECIFICATIONS

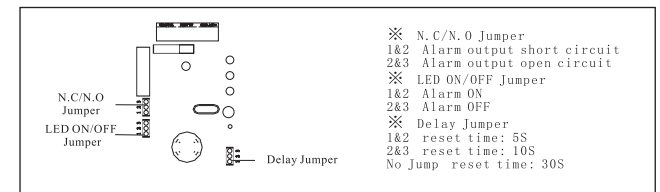| Input voltage	DC 9~16V
Operating current	Standby≤DC/20mA Alarm≤DC/15mA
Operating temperature	-10℃～+50℃ （14°F～122°F）
Sensor type	Dual infrared sensor
Alarm delay option	Option 1, 2, 3 correspond to 30'/10'/5'
Installation method	Wall mounted
Installation height	About 2.2m
Detecting distance	12m
Detecting angle	110°
Alarm output	N.C., 28V DC, 80mA max
Anti-tamper switch	N.C., 28V DC, 100mA max

INSTALLATION AND USAGE

1. Installation:
a) Choose a suitable place to install the detector. Fix the mounting bracket on the wall with screws, then hang the detector.
b) The recommended installation height is about 2.2M. and the angle between the detector and the wall is 6°-12°.
c) To avoid nuisance alarms, do not install infrared detector near to air conditioner, fans, refrigerators, ovens, windows and objects causing temperature changes.
d) Avoid any object in front of the detector lens.
e) Note: the alarm LED must be under the lens.
2. Usage:
a) Fit the front cover onto the base after wiring according to the manual.
b) With DC 12V power supply, the LED flashes continuously, the detector goes into self-check state.
c) Then, the detector is into operating state after the LED off in 60 second. If somebody moves in the range of the detecting coverage, the LED is on, and the detector will send out network signal.
d) To reach the best sensitivity by adjusting the installation angle of detector.
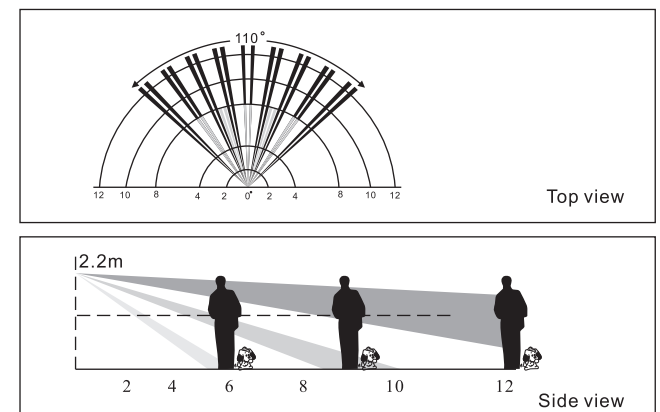e) "LED ON" jumper controls the LED indication, no effect to the detector's operation.

TERMINAL BLOCK FIGURE

+12V: DC ANODE
GND: DC CATHODE
ALARM: RELAY NETWORK OUTPUT PORT
TAMPER: ANTI-TAMPER OUTPUT PORT

ALARM DURATION OPTION

N.C/N.O Jumper
LED ON/OFF Jumper
Delay Jumper

※ N.C/N.O Jumper
1&2 Alarm output short circuit
2&3 Alarm output open circuit
※ LED ON/OFF Jumper
1&2 Alarm ON
2&3 Alarm OFF
※ Delay Jumper
1&2 reset time: 5S
2&3 reset time: 10S
No Jump reset time: 30S

TESTING RANGE FIGURE

110°
12 10 8 4 2 0° 2 4 8 10 12
Top view

2.2m
2 4 6 8 10 12
Side view

NOTICE

1. Please install and use the detector following the instruction 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 use the products 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.