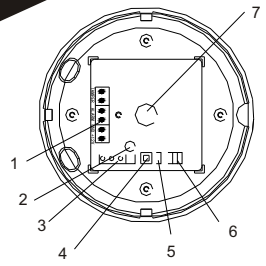
DUAL PASSIVE INFRARED DETECTOR

The Dual Passive Infrared Detector works through detecting the human body's infrared spectrum. While receive the body heat source signal from its'movement in the detecting area, transmit to the MCU after signal enlarged, MCU sends out the signal to control the alarm port after analyzed and calculated. The Detector is widely used in banks, warehouses, houses etc.

GENERAL VIEW

1



1. TERMINAL SWITCHES
2. LED
3. RELAY
4. ANTI-TAMPER SWITCH
5. LED ON/OFF
6. DELAY OPTION
7. SENSOR

CHARACTERISTICS

The Ceiling Mounted Dual Passive Infrared Detector includes the following unique features:

- 8-Bit Low-power CMOS Processing
- Auto Temperature Compensation
- White light immunity
- RFI Protection: 20 to 1000 MHz.(e.g. Mobile Communication)
- Three Digital Pulse (1, 2 or 3) Optional For Different Alarm Duration Signal

TECHNICAL SPECIFICATIONS

Supply voltage	DC 9~16V
Current drain	< 20mA (DC 12V)
Working temperature	-10℃ ~+50℃ （14°F~122°F）
Sensor type	Dual elements PIR
Digital pulse	1 2or3
Installation height	2.5~6m
Installation method	Ceiling mounted
Detecting range	Diameter 6m (installation height 3.6m)
Alarm output	N.C., 28V DC, 80mA max
Anti-tamper switch	N.C., 28V DC, 100mA max

INSTALLATION AND USAGE

1.Installation:

a) Choosing the suitable position, setting the 86 x 86 Fixing board by screws on the ceiling, then inserting the Detector.

b) The recommended installation height is 2.5m-6m.

c) Avoid installing the detector close to the following sources of interference: reflective surfaces, direct air flow form vents, fans, windows, sources of steam, oil vapor, infrared light sources and objects causing temperature changes such as heaters, refrigerators and ovens.

d) Avoid any object is in front of the lens of the detector.

2.Usage:

a) Fitting the front cover onto the base after wiring according to manual;

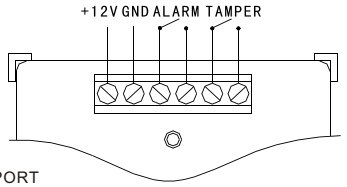
b) With 12V power supply, the detector is into self-checking after LED ON;

c) Then, the detector is into operating state after the LED off in 60 seconds; if somebody is moving in the range of the detecting coverage, the LED is on and the Detector sends out the network signals.

d) "LED ON" jumper controls LED operation only of no effect to the detector's operation.

TERMINAL BLOCK FIGURE

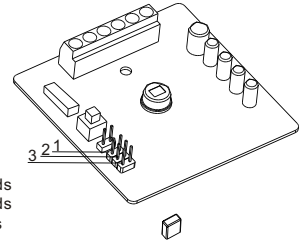
2



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

DIGITAL PULSE OPTION

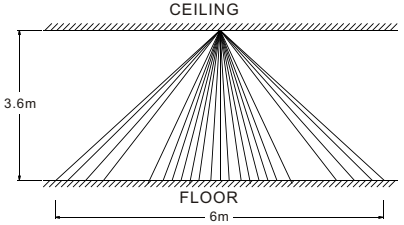
3



1) Option 1 delay time 30 seconds
2) Option 2 delay time 10 seconds
3) Option 3 delay time 5 seconds

TESTING RANGE FIGURE

4



NOTICE

1. Please install and use the Detector following the Directions. Do not touch the sensor surface as this could result in a detector malfunction. If necessary, clean the sensor surface using a soft cloth with pure alcohol.
2. Avoid the Products used in the area with huge change of temperature.
3. The user should follow the installation and operation instructions and among other things test the Product and the whole system at least once a week. For various reasons, including, but not limited to, changes in environmental conditions, electric or electronic disruptions and tampering, the Product may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.