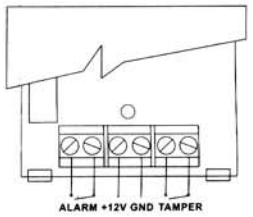
DUAL PASSIVE INFRARED DETECTOR

Detecting range	12m(wide-angle lens); 8m(curtain lens)
Detecting angle	110° (wide-angle lens);15° (curtain lens)
Relay output	N.O/N.C optional, contact point capacity 28VDC, 80mA
Anti-tamper switch	N.C without voltage output, contact point capacity 28VDC, 100mA

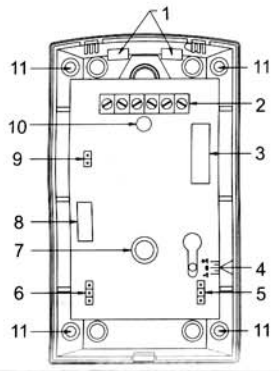
TERMINAL BLOCK FIGURE



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

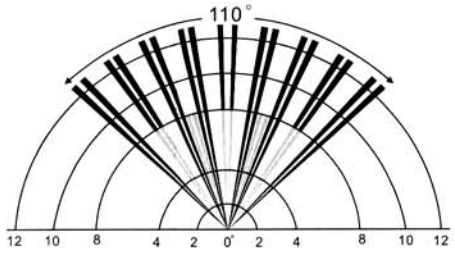
The dual passive infrared detector accords with national standards of P. R of China: GB10408.1-2000. It works by detecting human body's infrared spectrum. while receives body heat source signal from its movements in detecting area, the sensor sends out enlarged signal to MCU and MCU will sample continually, then output the signal after calculating to control the alarm port. This product is widely used in banks, warehouses, and houses etc.

GENERAL VIEW

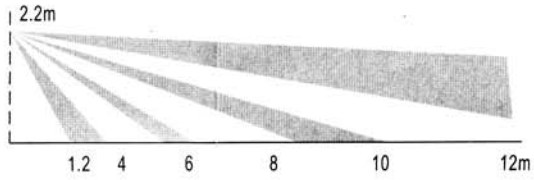


1. Wire exit
2. Terminal switches
3. Relay
4. Vertical adjust scale
5. RELAY jumper
6. P.COUNT
7. Dual infrared sensor
8. Anti-tamper switch
9. LED jumper
10. LED
11. Installation hole towards wall corner

WIDE-ANGLE LENS DETECTING RANGE



TOP VIEW

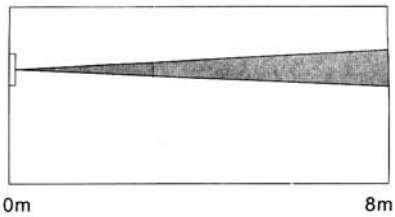


SIDE VIEW

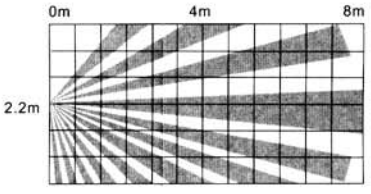
CHARACTERISTICS

- 8-Bit low-power CMOS processing
- Auto temperature compensation
- Wide-angle lens and curtain lens optional for various environments
- Count pulse control the sensibility to avoid misinformation
- Alarm output modes optional for connecting different host computers

CURTAIN LENS DETECTING RANGE



TOP VIEW



SIDE VIEW

TECHNICAL SPECIFICATIONS

Supply voltage	DC 12V (range: DC9~16V)
Current	≤25Ma(DC12V/h)
Self-check	60s
Detecting method	passive infrared detecting
Sensor type	Dual infrared sensor of low-noise & heat-release
Working temperature	-10℃~50℃
Installation method	Wall mounted
Installation height	2.2m around

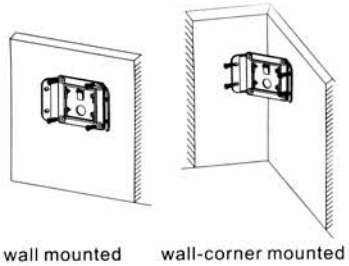
INSTALLATION

1. The detector should be installed at balconies, windows or gates etc, and enable human being or pet to walk through detecting range as much as possible. Recommended installation height is 2.2m.
2. Insert a screwdriver into the small square hole in front cover of the detector and separate the front cover and back cover, loosen the screw and move the PCB up-and-down. Fix the back cover at right position by screws and assure it is parallel with the wall, then fix the PCB.
3. Fix the PCB after connecting wires according to installation diagram and move the PCB to make the scale "0" on PCB towards the orientation sign on back cover. Then fix it tightly in back cover by screw.
4. To get different detecting range by adjusting the scales of "+1", "0" and "-1" up and down. When the orientation sign towards scale "+1","0" or "-1" on the PCB, the detecting range will be 8m,12m or 10m respectively.
5. Avoid installing the detector close to objects that can cause rapid temperature changes such as heaters, fans, refrigeratories, ovens. To ensure detecting effect., there should be no point-blank sunshine on the detector and veil in front of the detector.
6. Advise to use detector installation bracket (refer to the BRACKET INSTALLATION).

USAGE

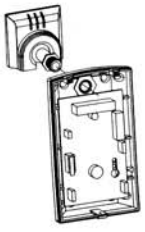
1. With power supply after wiring as the figure, the LED flashes constantly, indicating the detector enters into self-check.. The detector turns into normal detecting state when the LED is off after 60s .
2. LED jumper controls the LED, with no effect on other functions of the detector.
3. P.COUNT jumper is used to control pulse count choosing, connect 1& 2 to be 1P(the first grade), with the highest sensitivity, generally for common environment. Connect 2& 3 to be 2P(the second grade), usually used in bad environment. Manufactory setting is 1P.

BRACKET INSTALLATION

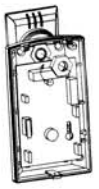


wall mounted wall-corner mounted

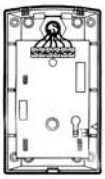
1. Choose a suitable position, on wall or in wall corner, and fix the bracket by screws.



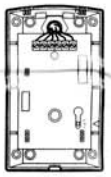
2.Disclose the front cover of detector and push the PCB to the end, then Insert the screw on the sliding base of the bracket into the fixing hole on back cover of the detector.



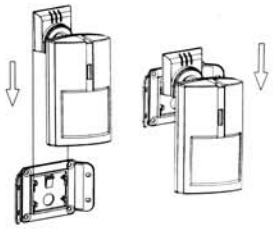
3. Fix the hexagonal nut.



4. Connect the wires according to the wiring diagram.



5. Move the PCB upwards to make the scale "0" on it towards the orientation sign on back cover.



6. Push the bracket downwards along the base and button it after being covered.

7. Fasten the bracket.

8. Installation finished.

NOTE

1. Please install and use the detector correctly according to the introduction. Do not touch the detector surface to warrant the sensitivity of the detector. If necessary, clean the sensor with soft cloth dipping a little alcohol after cutting off the power.
2. Avoid using the detector in environment with great changes of temperature.
3. This product can reduce the possibility of accident, but can not guarantee absolute safety, so besides using the detector correctly, please take all necessary precautions and enhance safety consciousness in daily life.