Outdoor PIR Detector

KS–208T adopts the advanced A/D processing technology and Micro–processing recognition technology. It works by detecting the infrared radiation heat from the human body. The detector can be used in different environment as it adopts double infrared sensor together with special filter len and automatic temperature compensation technology,. It has the advantages of false–alarm free and easy installation and widely used in families, schools, banks and so on

↘ Main Feature

- ●Single–chip intelligent digit processing
- ●Double–channel digital–to–analog conversion process
- ●Airproof and weatherproof function
- ●Automatic temperature compensation
- ●Detection distance: 8m and 12 m (optional)
- ●Detection methods: Monopulse and Double –Pulse (optional)
- ●Alarm output: Normally open—NO and normally closed–––NC (optional)
- ●Alarm indicator light: ON and OFF (optional)
- ●Day and night working mode can be set
- ●Alarming time: 5S and 20S (optional)
- ●NO False Alarm caused by pets (up to 10KG)
- ●With special filter and the intensity of anti–white light can be up to 10000LUX

↘ Technology parameter

- ●Working Voltage: DC9.6V––15V
- ●Waiting Current: NO≤8 mA NC≤18 m A (DC12V)
- ●Alarm Current: NO≤20 mA NC≤10 m A (DC 12V)
- ●Detecting Angle:110°
- ●Detecting Distance: 12m (optional)
- ●Alarm Time: 5s and 20s (optional)
- ●Alarm recovery time: 100 senonds
- ●Installation Height: 2m

- ●Size: 160 X 80 X 49 (mm)
- ●Working temperature: –20℃~+55℃
- ●Preserving temperature: –25℃~+65℃

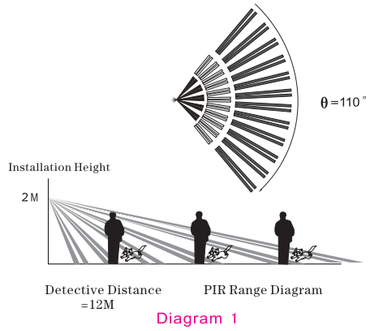


Diagram 1

↘ Component Description

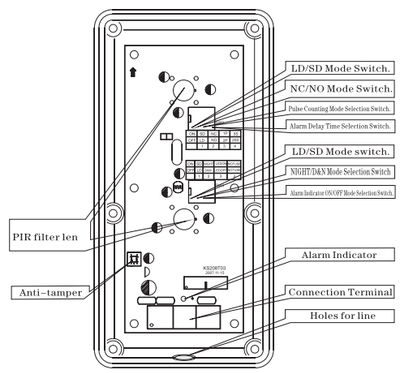


Diagram 2

1.Pulse counting mode optional switch: the detector has two modes

a)Monopulse mode: two sensors must receive a complete and efficient pulse simultaneously then it alarms. This mode is used in general environment

b)Double–Pluse mode: two sensors must receive two complete and efficient pulses simultaneously then it alarms . This working mode is used in the poor environment

Note: It is Monopulse with the jumper inserted and Double–Pluse removed, default : Monopulse

2.NC/NO Mode Selection switch: It is available for different main units, the default mode is NO, see the picture

3.Alarm time selection switch: 5S or 20S operationg time selectable, see the picture

Note: 5 seconds with switch on, 20 seconds off, the default state is 5 seconds.

4.NIGHT/D&N Mode Selection switch:

a) NIGHT Mode: Alarm in the night only.

b)D&N Mode: To be in the detecting statue in 24 hours

Note: It is night mode with switch on and round–the–clock mode with switch off.

5. LD/SD Mode Selection switch: The detecting distance is 12m or 8m (optional).

Note: It is 12m with switch off, and 8m with switch on, the default state is 12m.

6. Anti–tamper Switch: When the shell is opened , the switch is on

7.Alarm Indicator ON/OFF Mode Selection switch: It indicates the state when it is alarms, The default state is ON, for the effective indicator..

8. Wiring terminals
VCC:to power–cathode
GND:to Negative Power
ALARM: alarm output terminal
TAMPERPROOF: tamperproof output terminal (normally closed output)

↘ *Installation and Adjustment

1. Installation Requirement

1.1 The infrared sensor has the highest sensitivity when a human body moves horizontally relative to the lens and the lowest when vertically against the lens.

1.2 The height of the detector should be note when installation, which will greatly effect the range of the defense area. The height should be about 2 meters.

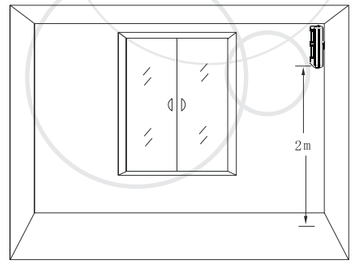
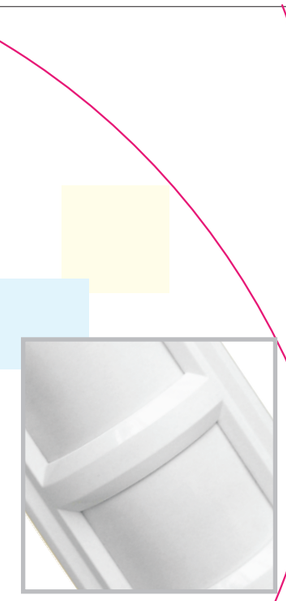


Diagram 3

1.3 Stand off the sunshine and the place with many traffic flow.

1.4 Make sure that there is no barrier within the defended area of a detector



V2.0
PN:350310000208T011

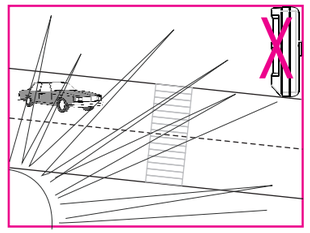


Diagram 4

Diagram 5

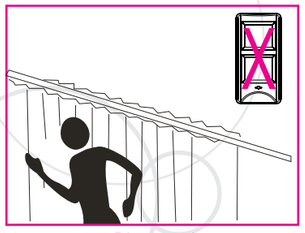


Diagram 6

1.5 To avoid the object with curtain walls , such as the metal wall, glass etc.

1.6 We suggest you use double–pulse mode if it in the strong interference environment.

1.7 Infrared sensor is required to be stable on the wall without sway.

2. Installation and Operation

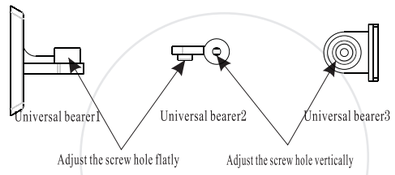


Diagram 7

2.1 Assemble the three universal bearers together with screws

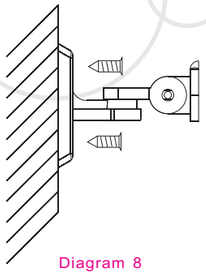


Diagram 8

2.2 Fix the universal bearers on the 2m over ground with screws

2.3 Take out the 6 water–proof glues and screws in the bottom cover , and open it, then connect the terminal according to the mark

2.4 Select the switch accroding to the actual needs.

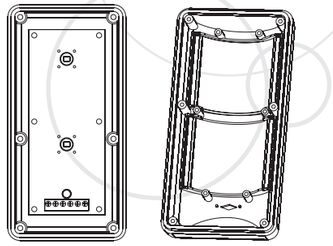


Diagram 9

2.5 Close the covers and fix in the screws and water–proof glues, then put it into the universal bearer from the top to the bottom.

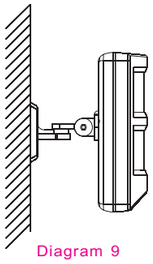


Diagram 9

2.6 Turn on the power , after100 seconds, human body moves transversely at 12m distance from the detector in 0.7m/s for 3m, then if the indicator is on, the installation is OK and successful. If it is not, check the detector location , height and vertical angle (normally 5 degrees, and less than 10 degrees), and test again until it comes normal. Then screw the screws in the level and vertical direction, and pack link lines.

Note: The horizontal direction is for adjusting the size of the detecting area and the vertical is for the sensitivity and detecting distance.

Note

1.To avoid effecting the sensitivity, infrared sensor is not allowed to be touched by hand. Power off and clear it with a cotton dipped with a few alcohol to keep the detector clear.

2. Test infrared detector regularly.

3.This infrared detector can prevent the occurrence of acts of theft, but cannot guarantee absolute safety. For your security, the users are asked to use this products correctly and on the alert in their daily life.

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Users Manual

the 3 Version