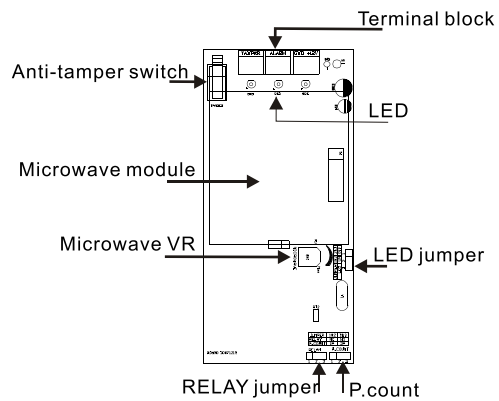


### INTRODUCTION

Triple technology detector combined microwave and passive infrared with intelligence, adopting advanced signal analysis technology, can avoid various kinds of false alarms under worse environment. It is used in banks, warehouses and houses etc.

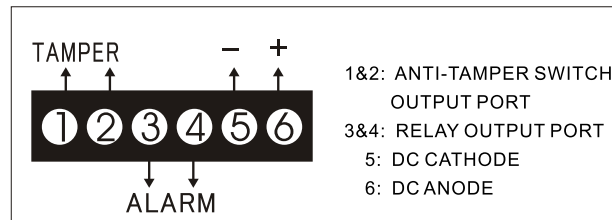
### PCB General view



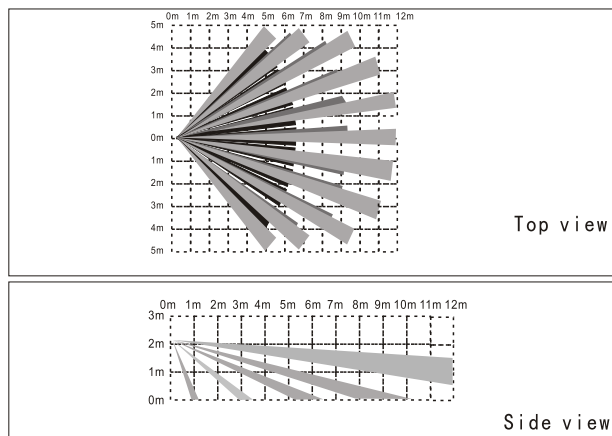
### TECH. SPECIFICATION

Working voltage	DC9~12V
Supply	≤30mA
Detecting range	12m*12m
Warm-up time	≤60s
Detecting mode	Dopper+Power analysis
Sensor	Dual low noise PIR
Microwave antenna	Plane antenna with high frequency oscillator GaAs:FET
Microwave frequency	10.525GHz
Installation method	Wall mounted
Installation height	About 2.2m
Working temperature	-10°C~50°C
LED indication	Green:infrared Yellow:microwave Red:alarm
Terminal block	ALAM,GND,+12V,TAMPER
Relay output	N.C./N.O. optional, 28VDC,80mA
Anti-tamper switch	N.C. without voltage output,28VDC,100mA

### TERMINAL BLOCK



### DETECTING RANGE



### CHARACTERISTIC

- Adopted MCU
- Pulse count optional
- Streamline design
- Doppler + Power analysis
- X-Band plane antenna
- Microwave detecting range adjustable
- Auto temperature compensation reducing false alarm
- Valve adjustable technology with high anti-interference
- N.C./N.O. optional for different alarm system
- Intelligence technology differing intruder from interference signals
- SMT technology

### INSTALLATION

1. Fixing the bracket of detector in the wall, after opening the front cover and take out the PCB, setting the back cover on bracket by screw.(the best installation height is about 2.2m.)
2. Setting the PCB in the back cover after connecting the wire according to the TERMINAL BLOCK FIGURE Close the front cover.
3. 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. Avoid installing the detector in the sun directly.
4. Avoid any object is in front of the lens of the detector, the look-down window must face down.

### TESTING AND USAGE

1. With 12V power supply, the detector is in self-checking and red ,green,yellow LED flash; The LED is off after 60 seconds and the detector is in operating state.
2. Making walk testing in detecting range, different LED flash: Green LED flash, infrared is ON; Yellow LED flash, microwave is ON; Red LED flash, infrared & Microwave is ON and the detector is in alarm status.
3. RELAY jumper is used to set alarm output mode. Select different output mode depending specification of control: 1&2/N.C. ; 2&3/N.O. ; 1&2/N.C. in normal.
4. Microwave VR is used to adjust the detecting range of microwave according to customer's request. (the largest detection range is set in normal.)
5. LED on or off optional by jumper.
6. P.count:is used to adjust the sensivity of PIR sensor;1&2: 1P 2&3.2P: 1&2 in normal.

### NOTE

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. Avoiding to use the products 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.