

MCP-023 Infrared-Microwave Human Body Sensor

1. Product description

This product is a sensor designed to sense moving objects using 24GHZ microwave signals with Doppler radar principle and PIR infrared sensor. When the sensor senses the movement of an object, it outputs a pulse signal (12V, GND, or dry contact), which enables other electrical equipment to run or stop. The product for the hotel or security management microwave + infrared double identification sensor, its use is mainly for the dynamic detection of major areas, good consistency, stable performance, easy to install.

2. Product pictures





3. Product parameters

Model	MCP-023	Microwave Detection Angle	150°
Working voltage	DC9-24V	Microwave Detection Range	MAX 10M(detection distance adjustable)

Dynamic current	≤75mA	Infrared Detection Angle	120°
Protection Degree	IP20	Infrared Detection Range	MAX 8M diameter
Working frequency	5.8GHz	Relay output time	3 ~ 60s(adjustable)
Induction mode	OR or AND(Optional)	Working temperature	30°C~+70°C
Relay output voltage	12,GND,dry contact(Optional)	Working humidity	< 93%RH no condensation
Relay output mode	Normally open and Normally close(Optional)	LED indication output mode	ON/OFF(can be set)
Mounting height	2.5M<H<3.5M(The mounting height can be adjusted according to the customer's choice of output method.)		

4. Product features

- Not affected by temperature, humidity, noise, airflow, dust, light, etc.
- 24G dedicated communication frequency band, which can effectively avoid the current universal 5GHz communication band.
- Higher sensitivity and longer sensing distance, up to 10 meters.

5.Detection range and installation requirements

5.1. Microwave

- Detection range radius 5M (mounting height 3m)
- Horizontal detection distance MAX10M
- No metal plate in front of the sensor
- Please restart the power when the sensor is moved from one position to another.
- When multiple sensors are installed on a site, please keep the distance between them more than 5M.

5.2. Infrared

- Detection range radius 4M (installation height 3 meters)
- Installation requirements: ceiling-mounted, antenna sensing surface vertically downward.
- Installation needs to be far away from motor interference, heat generator interference.