

Operation Manual

M-204M Miniature microwave sensor

Make your choice.....



1 Safety instructions

! Thank you very much for purchasing this product. In order to use this product correctly, please read this operation manual carefully before using it

2 Product overview



3 Installation and Wiring

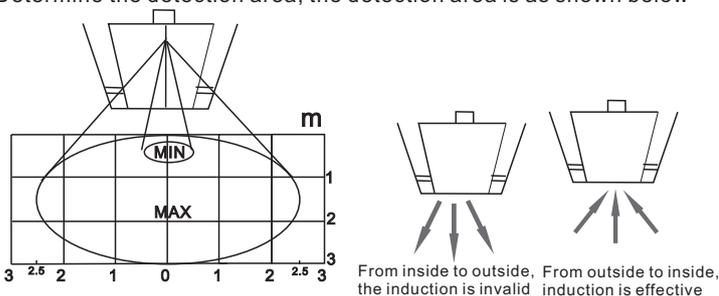


4 Overall Characteristics

- This is a one-way motion microwave sensor, which specifically detects approach signals and shields away signals. It is very suitable for applications such as high-speed doors.
- Detection of using intelligent optimization control circuit, greatly improving the accuracy and stability of induction
- Compact design, more flexible installation.

5 Installation and adjustment

Determine the detection area, the detection area is as shown below



【Attention】

After turning on the power, stand outside the sensor detection area for about ten seconds, the purpose is to allow the sensor to adjust itself.

Adjust sensitivity



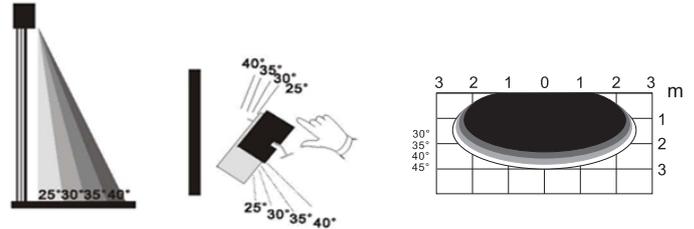
Detection range (installed at a height of 3 meters and an angle of 45 degrees)

Detection direction adjustment

(flexible adjustment for front and back, left and right)

Adjust the angle of the planar antenna to obtain different detection distances and different detection areas

Adjustment range: up and down 170° adjustable, left and right 360° adjustable



(Fluctuate up and down) (rotate left and right)

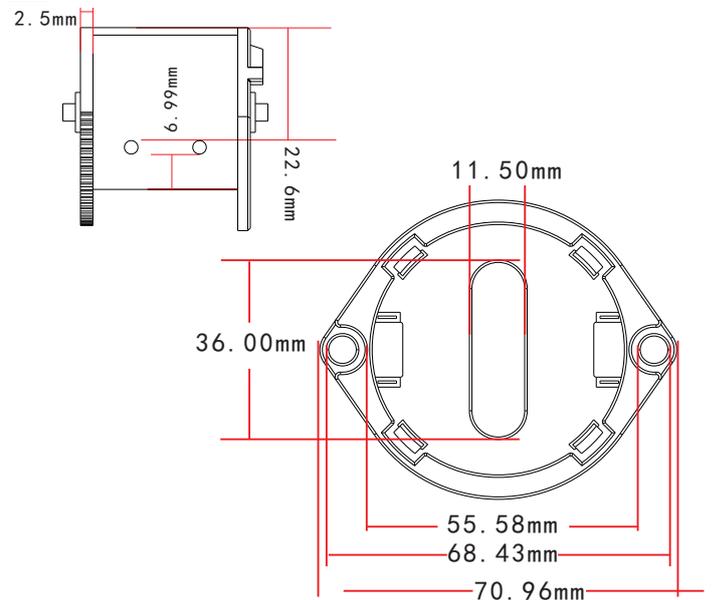
Note: The factory default 45 degree angle

The above data is measured at a height of 3.2 meters.

The test values in this manual are reference values, not guaranteed values

Due to the difference of the body, there will be a little deviation, especially when the door, floor and surrounding walls are made of metal,

6 Installation positioning hole and wiring definition



7 Installation Precautions



Motion sensor should be fixed in case of vibrate

The sensor cannot be placed directly behind the metal plate

No movable or shaking objects in the detection area

No fluorescent source in the detection area

8 Trouble Clearing

Symptom	Possible Cause	Correct Measures
The door cannot be opened, and the indicator light is off	Sensor is not connected to power	Check wiring and power supply
The door kept opening and closing	The sensor senses the movement of the door, and the door vibrates when it is closed	Increase the angle of antenna installation to ensure that the sensor is properly fixed and reduce sensitivity
The door can't be closed. The blue light doesn't work	Bad door control switch or wrong position; sensor output is incorrect	Check and make sure that the door control switch is in working condition; check the output setting of the sensor

9 Technical Parameters

Implementation technology:	microwave and microwave processor
Transmission frequency:	24.125GHZ
MAX install height:	4.5M
Installation inclination:	0-170°(vertical):360°(horizontal)
Detection mode:	one-way movement
Minimum detection speed:	5cm/s (Along the longitudinal axis of the sensor)
Detection range (installation height=3.2m):	5m(width)x3m(depth)
Relay output(No initial potential):	COM NO
Output contact:	Normally open
Output contact capacity :	120mA/50V
Standby current:	45mA
Operating current:	59mA
Hold time:	1s
Wire length:	6m
Temperature range:	-20°C+55°C
Case material:	ABS plastics
Case color:	Black
Voltage:	12V ~ 24V DC±10% (50-60Hz)
Size:	71mm(L)x60(W)x50mm(H)