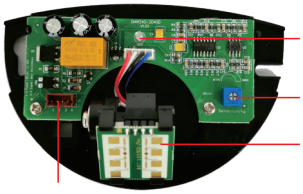
Operation Instructions

Unidirectional Microwave Motion Sensor

1 Safety Instruction

Related part should be operated under low voltage condition. All installation process and maintainance should be carried out by the supplier.

2 Installation



LED Indicator
The indicator will flash for few seconds when sensor power; When detect successfully, the indicator is on.

Sensitivity potentiometer

Doppler microwave sensor
(Fluctuation up and down, rotatiion left or right)

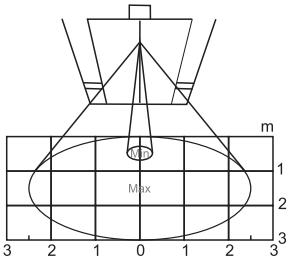
JST connection
Brown, Yellow: Power cable
Green, White: Relay

1.Install the sensor. Place the device in the proper position, and remove the burrs completely when processing the cable hole. Open the mounting plate after opening the hole.
2. Connect the signal cable to the power terminal of the automatic door.
Green, white: signal output COM/NO Brown, yellow: power input AC / DC12V~24V
3.Remove the outer cover and fix the sensor with screws.
4. Connect the terminal to the sensor.
5.Connect the power supply to the sensor, set the detection range and each function switch in sequence.
6.Close the cover.

3 Adjustment

1.Detection range as below shown

NOTE: Please stand out of the detection range around 5S to ensure the sensor has enough time to finish the self-adjustment.



Inside out induction is invalid

Out inside induction effective

1) This is unidirectional microwave motion sensor, which is used to detect the approach signal and shield the departure signal; It is very suitable for speed doors and other applications,which can effectively avoid the phenomenon of door self-sensing and non-target opening by mistake.

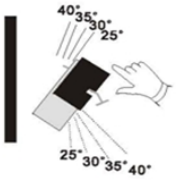
2.Sensitivity Adjustment

Detection Range
MIN:0.5*0.4M MAX:5*3M
Select different detection range by adjusting sensitivity knob

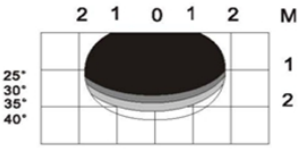
3.Adjustment of detection direction
(Adjust Direction of front and back/Left and Right flexibly)
Adjusting angle of Plain aerial to get different detection distance and range 30=15×2 range.

NOTE: The factory default is 45 degrees. All the parameters above are only for reference, detection height is 3.2M. Detection range will be different because of the making material of door and ground, please adjust the sensitivity by the knob mentioned above. When it is adjusted to 60 degree, the detection range is the widest ,door will keep on closed and open all the time.

Fluctuation up and down



Rotation left and right



4 Special Note

Position should be fixed tightly to avoid vibrating

Sensors should not be placed behind the shield.

Moving object should be avoided

Fluorescent should be avoided

Do not touch directly, ESD Protection is necessary

5 Troubleshooting

Symptom	Cause	Method
Door&Indicator lose failure	Did not get on power	Check cable connection & power supply
Door keep on closed and open	Sensor detected the movement of autodoor; vibration of movement	1, Increase the antenna installation height. 2.check the position 3, Reduce the sensitivity.
Door do not close Blue indicator lose failure	1.Switch of autodoor controller lose failure 2.incorrect position 3.Incorrect output of sensor	Check the switch of autodoor controller &setting of output.
Door keeps on moving when it rains	Sensor detected the actions of rain	Adopt waterproof accessories

6 Parameter

Technology: Microwave&microwave processor	Relay output(No initial potential): COM NO
Frequency:24.125GHz	Output time: 1 Second
Installation Height: 5M(MAX)	Cable length: 2.5 meters
Installation Angle:0-90 degree(lengthways) -30 to +30(lateral)	Working temperature: -20 ℃ to+55 ℃
Detection Mode: One-way motion	Sheating material: ABS plastic
Min detection speed:5cm/s	Power supply: AC/DC 12-24V ±10% (50Hz to 60Hz)
Detection range:5m*3m(Installation Height 3.2M)	SIZE: 120(W)x80(H)x50(D)mm