


# Operation Instructions

Make your choice...

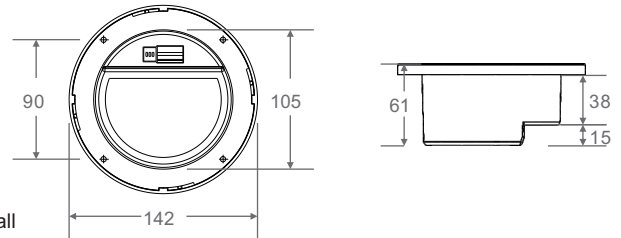
## M-204X Ceiling Mounted Microwave Sensor



### 1 Safety Instruction

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

### 2 Overview

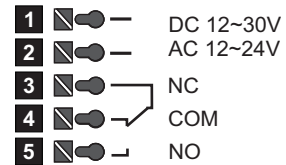


**1** Bottom cover **2** Top Cover **3** Wiring terminal **4** This side inward when install

### 3 Installation & Wiring

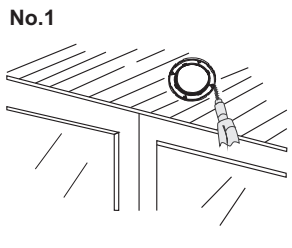
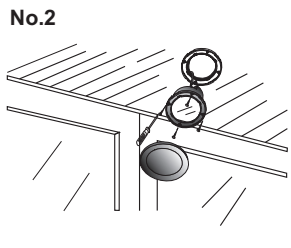
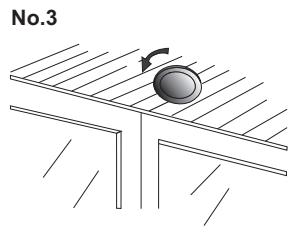
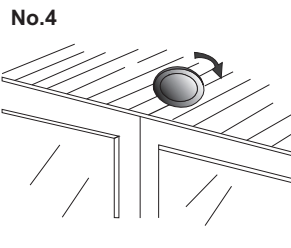

1. Install the sensor. Place the device in the proper position, after remove the burrs completely. Open the mounting plate.
2. Remove the outer cover and fix the sensor with screws.
3. Connect the two ends of the wiring to the sensor and the door machine respectively.
4. Connect the power supply to the sensor, set the detection range and each function switch in sequence.
5. Close the cover.

This is unidirectional microwave motion sensor, which is used to detect the approach signal and shield the departure signal; It is very suitable for some automatic door that can only be concealed installation, and perfectly matched with the ceiling.



Brown, yellow: power cable; Green, white: relay.

### 4 Installation Way

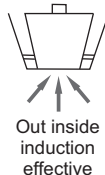
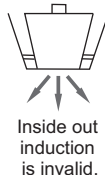
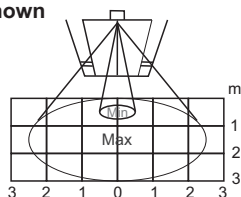
| No.1   | No.2  | No.3  | No.4   | No.5  |
|--|---|---|--|---|
|  |  |  |  |  |
| Drill the holes according to the screws position of bottom cover(depth≥53mm)       | Put sensor into installation hole after wiring connection and fix it by screws.     | Tighten the top cover after debugging until you hear a click voice.                 | Please unscrew the top cover clockwise if you need further debugging.                | As shown in the figure, the complete arc face faces outward during installation.      |

## 5 Adjustment

### 1. Detection range as below shown

#### NOTE:

Please stand out of the detection range around 10s to ensure the sensor has enough time to finish the self-adjustment.



### 2. Sensitivity Adjustment



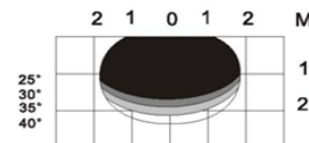
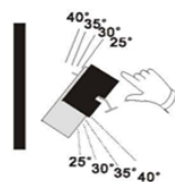
Detection Range  
(height=3.2meters, angle=45°)  
MIN: 0.5\*0.4 meters  
MAX: 5\*3 meters

### 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 adjusted to 60 degrees, the detection range is widest, which may cause self-sensing and the door will always open and close.



Fluctuation up and down

Rotation left and right

## 6 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.<br>2.check the position 3, Reduce the sensitivity. |
| Door do not close<br>Blue indicator lose failure | 1.Switch of autodoor controller lose failure<br>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  |

## 7 Parameter

|                      |  |                              |                               |
|----------------------|--|------------------------------|-------------------------------|
| Technology:          | Microwave & microwave disposer               | Relay Contact:               | COM NO                        |
| Frequency:           | 24.125GHz                                    | Output time:                 | 1s                            |
| Installation Height; | 4.5m   | Working Temp:                | -20°C to +55°C                |
| Installation Angle:  | 0-90 degree(lengthways), -30 to +30(lateral) | Cover Material:              | ABS Plastic                   |
| Detection Mode:      | Unidirectional Motion                        | Voltage:                     | 12V-30V AC/DC ±10%(50 ~ 60Hz) |
| Min detection speed: | 5cm/s  | Cover Dimension:             | 142mm(Φ)×61mm(D)              |
| Detection range:     | 5m×3m when installation height is 3.2m       | Installation hole dimension: | 105mm(Φ)×53mm(D)              |

## 8 Packing List

| No. | Name        | Quantity | Remark |
|-----|-------------|----------|--------|
| 1   | Sensor      | 1        |        |
| 2   | 4-PIN cable | 1        | 2.5m   |
| 3   | Screws bag  | 1        |        |
| 4   | Manual      | 1        |        |