

### Component name

LED indicator light  
Sensitivity adjustable knob  
Mounting screw hole

Connection socket  
MICROWAVE SENSOR  
MODEL: M-531

Mounting hole size  
44mm  
R1.75

Back sides

### Parameter

Technology	Microwave & Microwave processor	Emission frequency	24.125 GHz
Emission power	<20dBm EIRP	Emission frequency density	<5mW / cm2
Maximum mounting height	4000mm	Induction adjustment Angle	15-75° (vertical)
Detection Mode	Motion	Minimum detection speed	5cm/s (Along the longitudinal axis of the sensor)
Detection range	(Mounting height=2.8M) 4 (W) 3 (D)	Output connection point	Normally open
Output connect capacity	120mA / 60V	Standby current	22mA(DC12Vpower supply)
Action current	24mA(DC12Vpower supply)	Output time	2S
Cable length	2.5M	Temperature	- 2 0°C ~ + 5 5°C
Power voltage	AC/DC12~30V	Dimension	55mm(L)×40mm(W)×30mm(H)

### Data adjustment

- #### 1. Determine the detecting area. The detection area is as shown below:

When the angle adjustment is larger, the sensing distance is farther, but meanwhile the blind area under the sensors will also become larger.

15°

75°
- #### 2. Sensitivity adjustment

The higher sensitivity, the larger detection range;  
The lower sensitivity, the smaller detection range.
- #### 3. Detection direction adjustment (Front and rear directions can be adjusted flexibly)

15° 75°  
(Fluctuation up and down)

2 1 0 1 2  
15° 75°  
1 2 3 4

Initial setting is 45 degree by factory.  
The above parameter is based on a height of 2.8m.  
And all parameter values in this manual just for your reference, all are subject to the actual conditions.  
Detection range will be different because of the making material of door and ground, please adjust the sensitivity by the knob mentioned above.

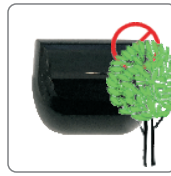
## Installation Notes



Sensor is fixed tightly to prevent vibration



Do not place into board or other material directly.



Moving object should be avoided.



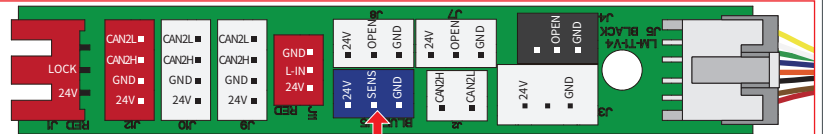
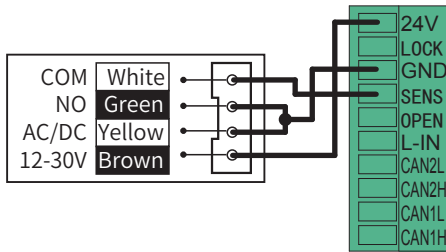
Fluorescent should be avoided.



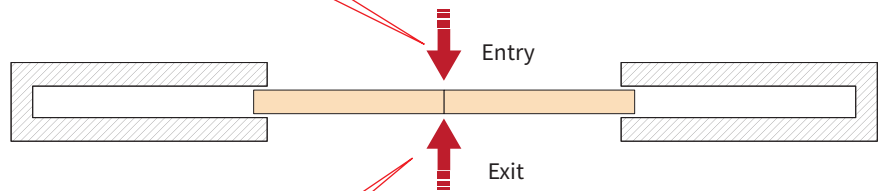
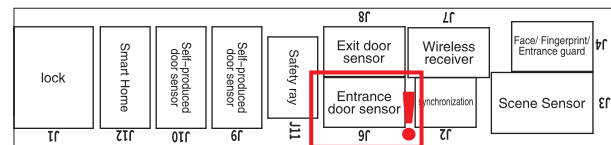
Can't direct contact with the sensor of electronic parts, need to be ESD protection

## wiring definition

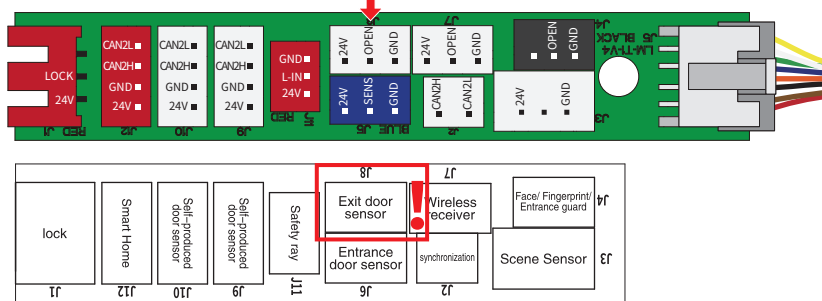
### The wire connecting way of connection port



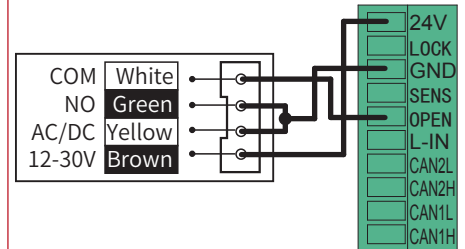
### The wire connecting way of connecting box



### The wire connecting way of connecting box



### The wire connecting way of connection port



## Trouble removal

Symptom	Probable Cause	Methods
The door can't open, or the indicator light won't work	Not connected to power	Check the wiring and the power supply
Door keep on closed and open	Sensor detected the movement of autodoor; or the door vibrated as it closed	1. adjust and increase the installation angle 2. Ensure that the sensor is properly fixed; 3. adjust and reduced sensitivity
Door do not close Or Blue indicator do not work	1. The autodoor switch is defective 2. incorrect position of switch 3. Incorrect output of sensors	Check and ensure the autodoor switch in working state; And check the output setting of sensors
Door keeps on moving when it rains	Sensor detected the falling raindrops	Adopt waterproof accessories