

Operation Instructions

Make your choice...

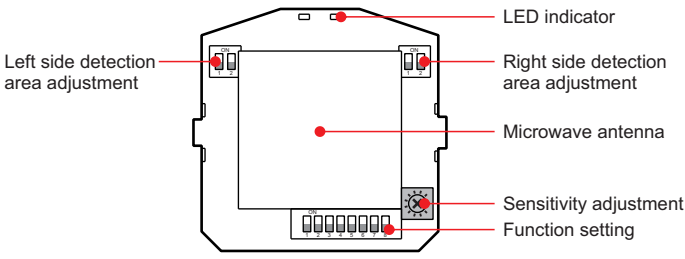
M-703 Multi-purpose microwave motion sensor

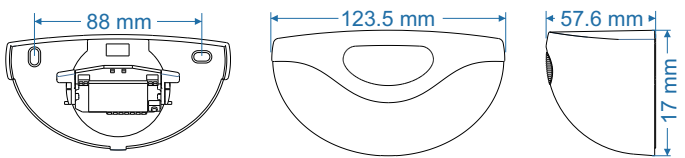


1 Safety Instruction

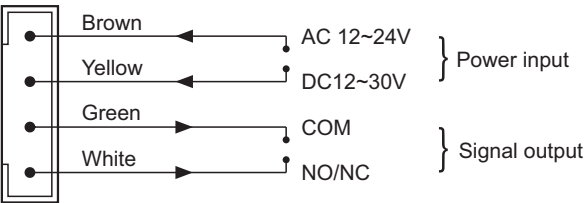
 Thank you very much for purchasing this product, in order to use it correctly, please read this manual instruction carefully before use.

2 Product Overview

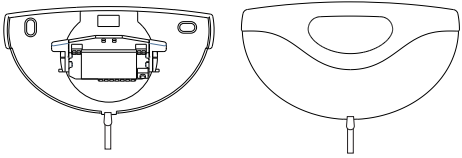
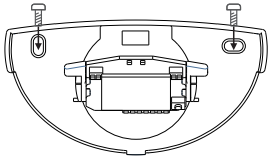
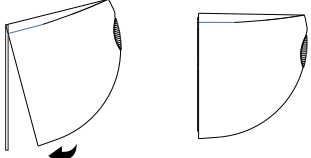




3 Wiring Definition



4 Installation

Open The Device	Mark And Drilling
 Insert a screwdriver into the opening slot and gently lever it, then remove the cover.	 1. Put the sensor in the appropriate position, mark the holes; 2. Drilling the holes, and thread the wire through the holes.
Install The Sensor	Tight The Cover
 Thread the wire through the holes and insert into the connection socket, then fix the sensor by the screws.	 Insert the cover into the top of the sensor, press it down until they are tight.

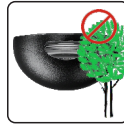
Installation precautions



Fix the sensor tightly to avoid vibrating



Sensors should not be placed behind the shield.



Moving objects should be avoided



Fluorescent source can't be present



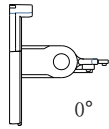
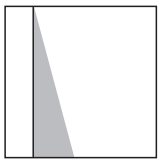
Do not touch directly, ESD Protection is necessary



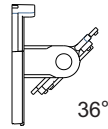
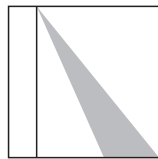
Before the device is powered on, clear other objects in the sensing area that not belong to the area.

5 Detection Range Setting

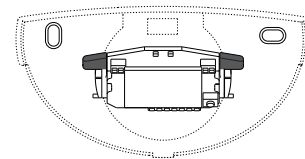
Vertical depth sensing adjustment



0°



36°



The depth sensing adjustment can be modified in 12° increments. Grasp the pivot handles on two sides of the sensor base and twist forward and backward to position as desired (factory default is 36°).

Note: Don't touch the microwave antenna directly with your hands during adjustment, as this may cause static electricity damage. Please adjust it using the pivot handle.

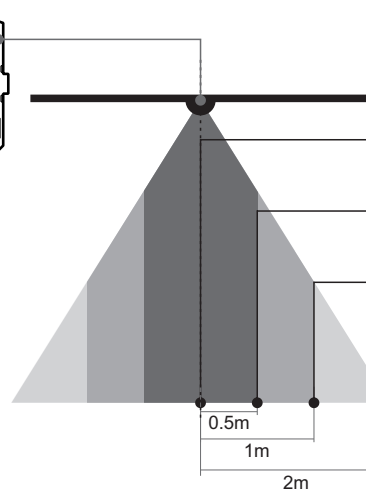
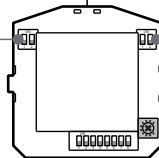
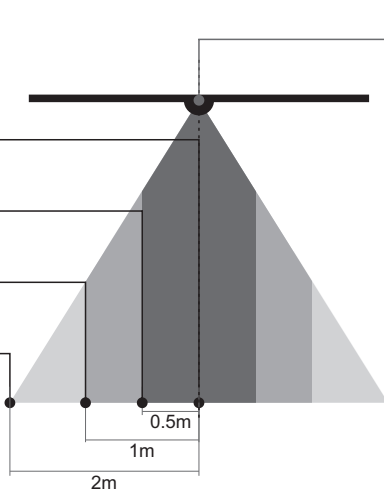
Left side detection area adjustment

Right side detection area adjustment

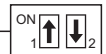
(Narrowest)



(Widest)



(Narrowest)



(Widest)

6 Function setting DIP switch

1 Direction	Bidirectional induction		Close, far away, lateral movement can be detected.
	Unidirectional induction		Close, lateral movement can be detected, far away won't be detected.
2 Relay	NO		Normally open output.
	NC		Normally close output.

3 Anti-interference	↓ OFF		Normal default.		
	↑ ON		Used to reduce interference such as rain, vibration and reflection.		
4 Low speed	↓ OFF		When the movement speed is too slow, it will be filtered and won't be detected.		
	↑ ON		Slow speed can also be detected, but the lateral suppression effect will be weakened.		
5 6 Lateral suppression	↓↓ NONE		-	Width of induction	This function only works for unidirectional induction. When the lateral suppression function is used, the system ignores the DIP NO.1 selection and forces unidirectional induction. With three levels different induction effect, induction width is also different.
	↑↓ Level 1		Light filter	2.5m	
	↓↑ Level 2		Medium filter	2.1m	
	↑↑ Level 3		Strong filter	1.3m	
7 8 Output hold	↓↓ 1 sec		The system detects the moving object, it will trigger the signal output, until the object is stationary for 1 second, will stop the signal output.		
	↑↓ 2 sec		The system detects the moving object, it will trigger the signal output, until the object is stationary for 2 second, will stop the signal output.		
	↓↑ 3 sec		The system detects the moving object, it will trigger the signal output, until the object is stationary for 3 second, will stop the signal output.		
	↑↑ 5 sec		The system detects the moving object, it will trigger the signal output, until the object is stationary for 5 second, will stop the signal output.		

7 Sensitivity adjustment



Clockwise adjustment, high sensitivity, counterclockwise adjustment, low sensitivity. A total of 10 levels adjustable.

8 Fault Resolutions

Failures	Possible Reason	Improvements
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 don't close and blue indicator off	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

9 Technical Parameters

Technology:	Microwaveµwave processor	Max contact power supply:	42V AC/60V DC
Detect mode:	Motion detection	Max contact current:	1A
Detection speed:	≥0.1meter/sec	Output holding time:	1 sec, 2 sec, 3 sec, 5 sec adjustable
Pitch angle:	0-120 degree, 12 degree each level	Working temperature:	-25°C to +55°C
Detection range:	4 * 2 meters (Installation Height 2.6 meters)	Working humidity:	10%-90% RH(frostless)
LED indicators:	When power on, blue indicator light flashes for 10s, standby - Blue indicator, action - RED indicator	Maximum installation height:	4 meters
Power supply:	AC 12-24V, DC 12-30V	Cable length:	2.5 meters
Working current:	Standby 40mA, action 75mA(DC 12V)	Sheating material:	ABS plastic
Signal output:	Relay 1 contact NO/NC	Microwave transmitting frequency:	<20dBm
Packing list:	Sensor x 1pc, instruction x 1pc, cable x 2.5 meters, screws x 1 bag	Dimension:	123.5(L)x57.6(W)x17(H)mm