

Operation Instructions

Make your choice...

M-235E Motion & Presence Safety Combined Sensor

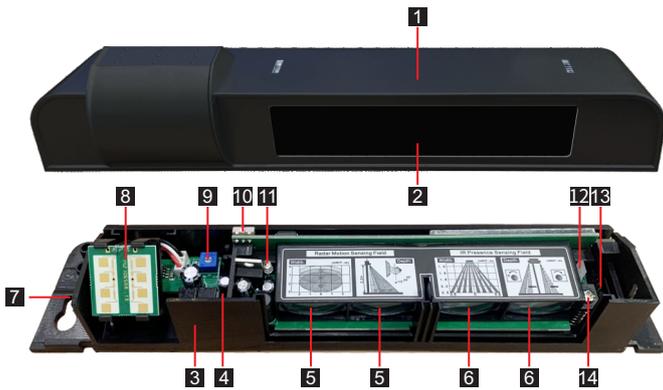


1 Safety Instruction



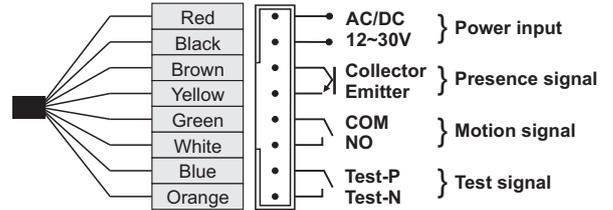
This device must use protected safety insulation low voltage, all adjustment and maintenance work must be carried out by professional engineering installers.

2 Product Overview



- 1 Top Cover
- 2 Optical surface lens
- 3 Bottom Cover
- 4 NO/NC selective removable PIN
- 5 Transmitting window
- 6 Receiving window
- 7 Microwave angle adjustment
- 8 Microwave receiving module
- 9 Microwave sensitivity adjustment knob
- 10 Background updated time dial switch
- 11 Activation Indicator
- 12 Safety Indicator
- 13 Wiring socket
- 14 Infrared adjustment screw

Wiring:



Presence signal normally open and normally closed mode



- 1. The pin cap on AB is NO signal;
- 2. The pin cap on BC is NC signal.

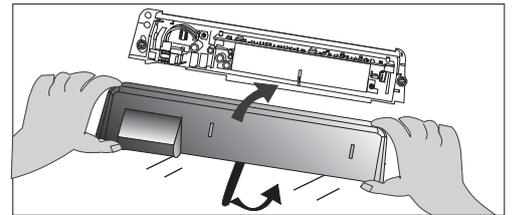
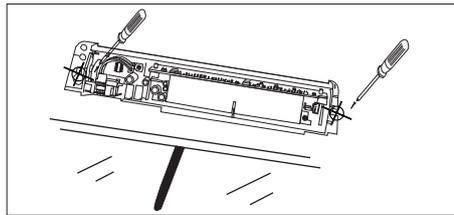
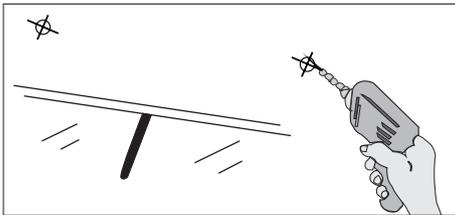
Note: Background update time is optional



Technical standards: EN16005:2012+AC:2015

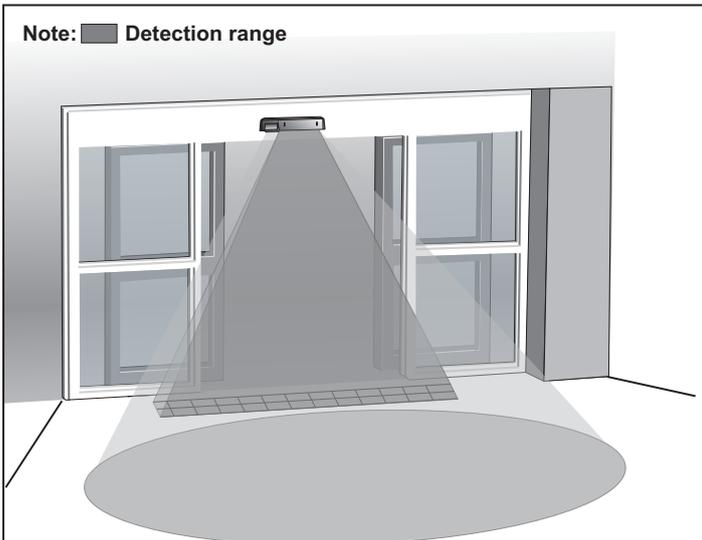
If connected to automatic door controller without test signal, the test signal should not be connect with other line, when connected to automatic door controller with test signal, should connect with test signal in order to compliant EN16005.

3 Installation

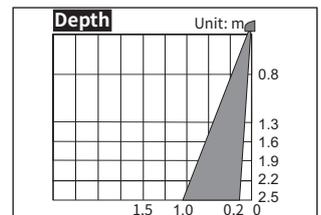
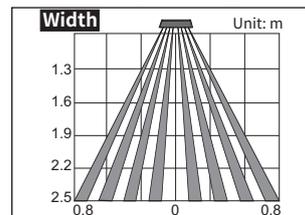


4 Detection Range

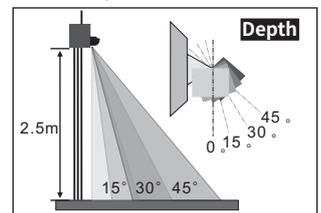
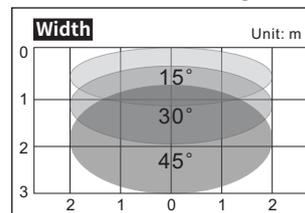
Note: ■ Detection range



Infrared Safety Sensing Field: Width & Depth



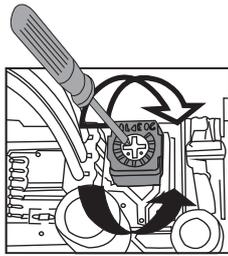
Radar Activation Sensing Field: Width & Depth



5 Adjustment For Microwave Sensitivity And Infrared Detection Range.

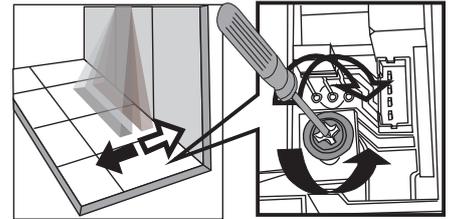
Microwave Sensitivity Adjustment

NOTE:
Turn clockwise to adjust the sensitivity more strong; Turn counterclockwise to adjust the sensitivity more weak.

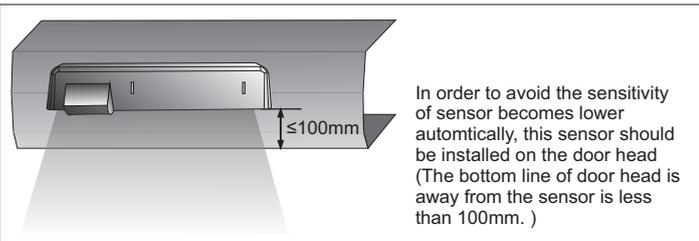


Infrared Detection range adjustment

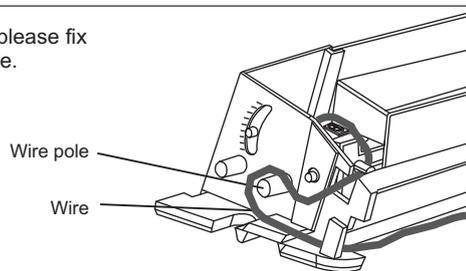
Turn clockwise to adjust the detection range moved inward. Turn counterclockwise to adjust the detection range moved outward.



6 Note



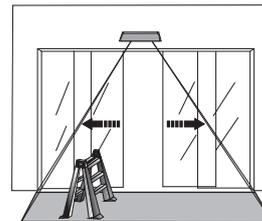
For easy installation, please fix the wire round the pole.



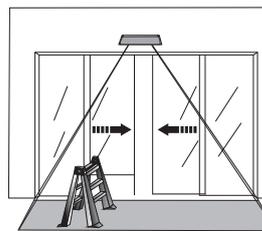
Note: ■ Infrared Safety Detection Range



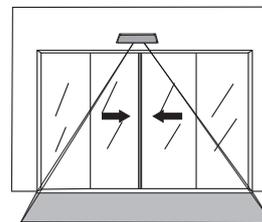
Note: ■ Infrared Safety Detection Range



When put a extra stationary object in the detection area, the sensor will transmit a door open signal in time. (As picture showed)



After 15s or 30min(optional), when the sensor is in the sensing area with only stationary object and no other objects or human body entering, the system will learn the objects as the background automatically, then to adapt to the new background, won't transmit door open signal, door will be closed. (As picture showed)



When remove this object away again, and restore to the original scene, the system will intelligently recognize the original scene and transmit a door opening signal for 2 seconds, then return to normal standby state.

7 Parameter

Power Input:	AC/DC 12~30V(±10%)	Operation Indicate:	Standby: blue LED; Detection: red LED
Cable Length:	2.5m	Detection Range:	1600(W) * 800(D)mm
Motion Signal Output:	Relay	Output time:	500ms
Max Installation Height:	2500mm	Respond:	≤100ms
Temperature:	-25°C~ +55°C	Optical surface:	PMMA
Static Current:	65mA	Microwave Activation:	
Action Current:	130mA	Technology:	Microwave processor
Dimension:	260.3(L)*53.4(W)*44(H)mm	Frequency:	24.125GHz
Cover:	ABS	Emission Power:	<20dBm EIRP
Infrared Safety		Transmission frequency density:	<5mW/cm ²
Ray Type:	Infrared modulated light	Detection Mode:	Movement
Ray Source:	Infrared 940nm	Detection Range:	4m(W) * 2m(D)
Quantity Of Ray:	8 rays transmitting, 8 rays receiving	Output time:	2s
Self-learning Time:	15s, 30min optional		

8 Packing List

- Sensor *1
- Operation instructions *1
- Crews bag *1
- 8PIN wire(2.5m) *1