M-229G Safety Curtain Sensor

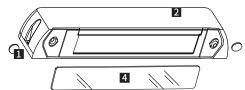


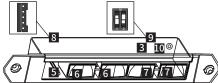
1 Safety Instruction



This device must use a low voltage with protection and safety insulation, and adjustment or maintenance must be done by professional installation workers.

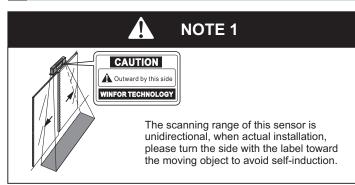
2 Product Overview





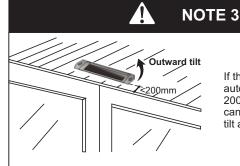
- Decorative cap
- 2 Exposed cover
- 3 Main Controller
- 4 Optical surface lens
- 5 LED indicator
- 6 Transmitter window
- 7 Receiver window
- 8 Wiring terminal
- 9 Function setting button
- Sensing range adjustable screws

3 Installation Precautions

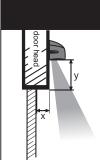


NOTE 2 Wher order the in betwee and the be me

When ceiling installation, in order to avoid self-induction, the installation distance between the automatic door and the safety curtain should be more than 200mm.



If the distance from the automatic door can't reach 200mm, the safety curtain can be installed at outward tilt a certain angle.

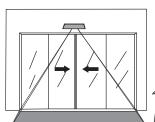


NOTE 4

When exposed installation on the door head, in order to avoid the first row infrared ray being blocked by door head, the distance between the bottom of the door head and the sensor is ensured:

X=50, Y=70 X=100, Y=50 X≥200, Y≤20

Note: Presence detecting area



When debugging, in order to avoid the wrong background information in the system, during the entire self-learning process, all irrelevant background objects must be withdrawn from the detection range, such as workers, ladders, toolboxes, etc. When the sensor is power on, blue light indicator is flashes, simultaneously send out

door open signal, entering the background learning state; When the sensor detect the stable background for 2s, blue light flashes quickly, and background learning success, blue light is always on, release door opening signal, the sensor is in

standby state.



Presence relay output red light on



Presence relay output red light flashes

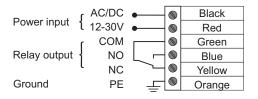


No induction



Presence relay output red light on

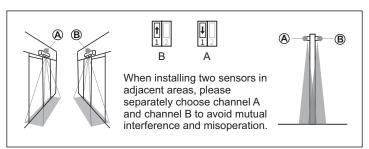
4 Wiring



This detector with self-learning function after starting up, the blue light flashes after power on, Simultaneously send out the door open signal, make sure door is in the opening state, so that the sensor can learn the door opening state correctly. At this time, the personnel must leave the sensing area and let the sensing area be relatively static. The sensor detects stability for 8 seconds, that is, the learning background, and after the learning is successful, the blue light is always on.

Note: If the sensor is only used for presence safety function, should be connected the signal to the door controller's safety port; If used for close-range motion sensing or presence safety function, should be connected the signal to the door controller's induction port.

5 Function Setting



Background automatic update time

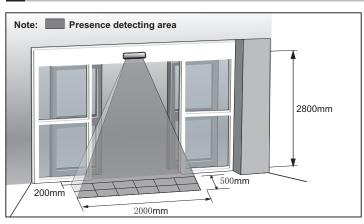


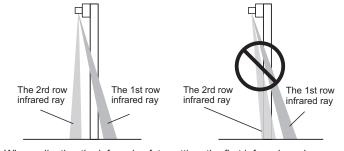
When background update time is 5 min: key 2 up
 That is, if people stand under the door and don't move, after 5 minutes, the person will be learned as background.



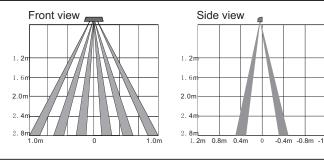
 When background update time is 15 seconds: key 2 down
 That is, if people stand under the door and don't move, after 15 seconds, the person will be learned as background.

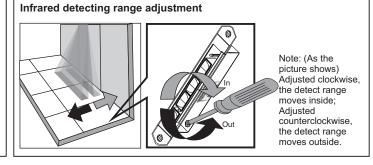
6 Detection Range





When adjusting the infrared safety setting, the first infrared can be adjusted to cross the threshold, which can better prevent people from being hurt by the door that is closed back.





7 Technical Parameters

Power input:	AC/DC 12-30V(-/+10%)
Ray type:	Infrared modulated light
Optical source:	Infrared 940nm
Light beam:	2 row, 12 beams in total
Static current:	30 mA
Action current:	62 mA
Learning time:	Dynamic stability for 8 seconds
Background update time:	15s
Operating display:	Standby mode: blue LED on;
	Detecting mode: Red LED on
Temperature:	-25°C to +60°C

Maximum mounting height: 2.8 meters	
Detection range:	(=2.8m height) 2000 (W)*500(D)mm
Output hold time:	500ms
Response time:	≤100 ms
	Relay, 1 pair of selectable contact points
Signal output:	6-pin connect terminal
Connection:	ABS
Shell material:	PMMA
Optical surface:	Surface mount or concealed mount
Installation methods:	200(L)x54(W)x32(H)mm (surface mount)
External dimension:	152(L)x25(W)x36(H)mm (hidden hole size)

8 Packing List