

Operation Instruction

M-229G Safety Sensor Curtain

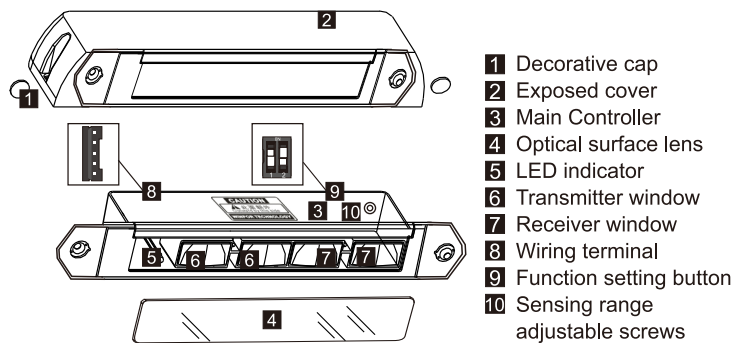


1 Safety Instruction



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

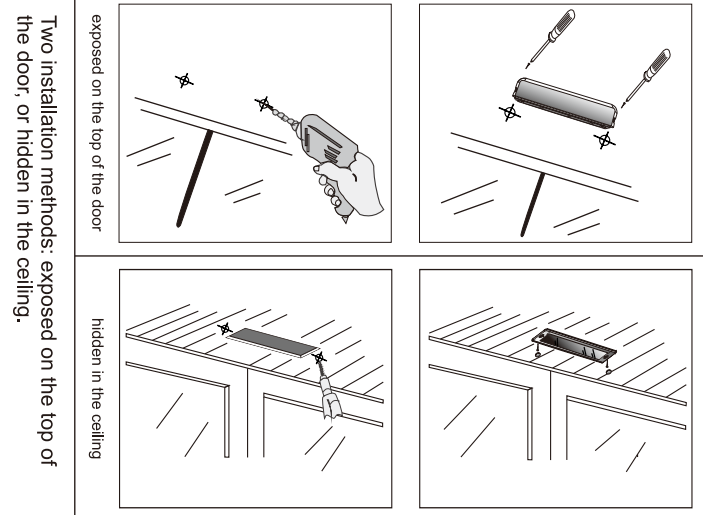
2 Product Overview



3 Overall Characteristics

- This safety sensor curtain is suitable for automatic sliding door for presence detection or other occasions for human being presence detection. High accuracy.
- Adopt background self-learning function, self-learn background state automatically when starting up, while adjust the sensitivity automatically, adapt various scenarios intelligently. Automatically and accurately compensate the background for time drift in real-time. It can self-correct due to the changes of various external factors (such as: vibration, deformation, gradual movement, brightness and darkness, sunlight, etc.) to ensure the long-term and reliable operation of the detector.

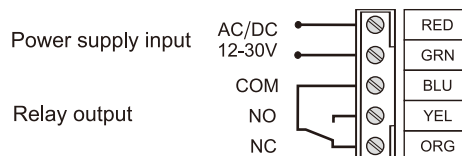
4 Installation



5 Starting Up

- 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 detector detects stability for 2 seconds, that is, the learning background, the blue light flashes, and after the learning is successful, the blue light is always on.

6 Wiring Diagram of I/O



NOTE: If it is only used for presence induction, should be connected the signal to the automatic door controller presence port. If used as door opening and presence induction in close range, should be connected with detecting port of automatic door.

7 Function Setting

Operating mode: High sensitivity or low sensitivity



- High sensitivity: Key 1 down
- The factory default setting is high sensitivity mode.



- Low sensitivity: Key 1 up
- When the reflectance of working environment is strong result to self-induction or background is difficult to update, it should be set to low sensitivity mode.

Background automatic update time



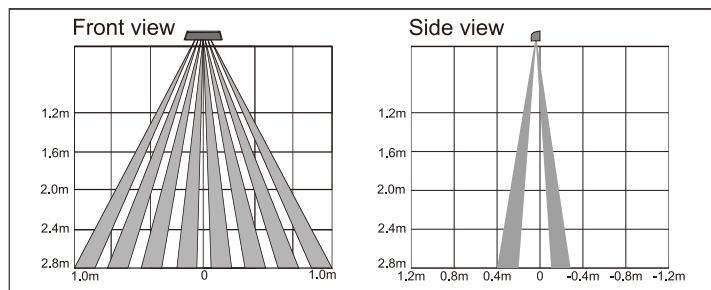
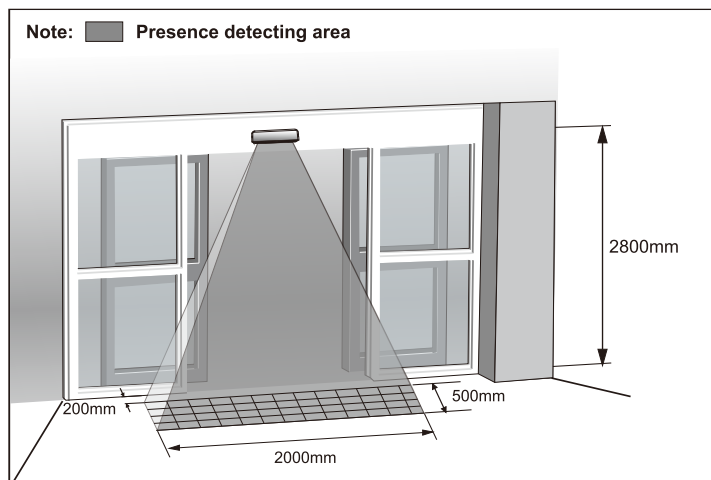
- When background update time is 5 min: key 2 up
- That is, if people stand under the door and don't move, after 5 minutes, the person will be learned as background.

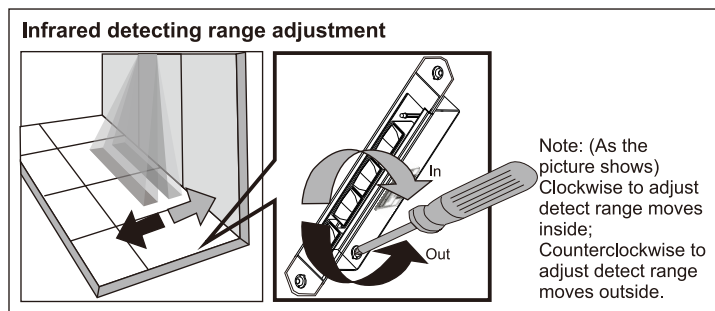
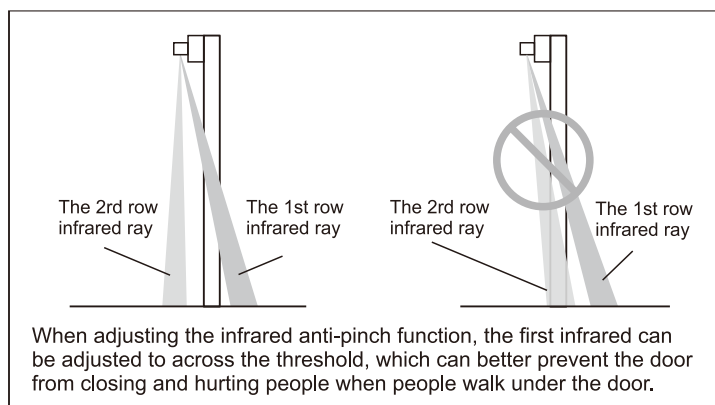


- When background update time is 15 seconds: key 2 down
- That is, if people stand under the door and don't move, after 15 seconds, the person will be learned as background.

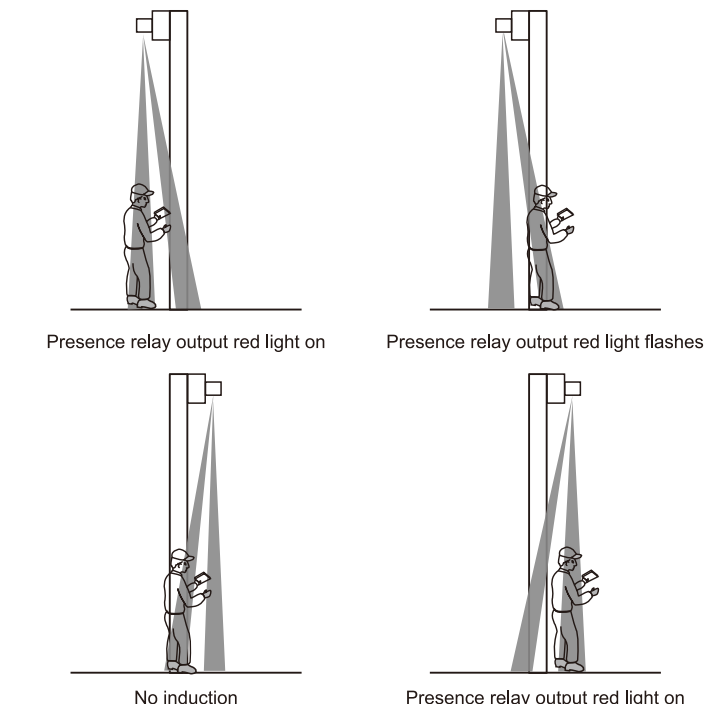
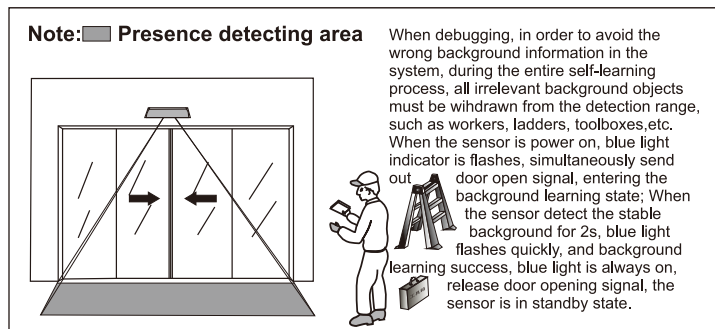
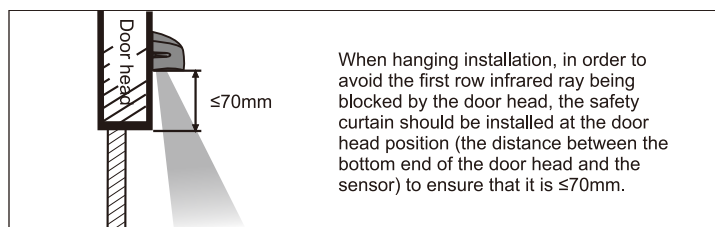
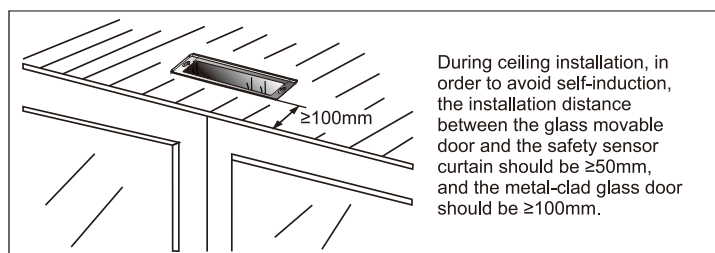
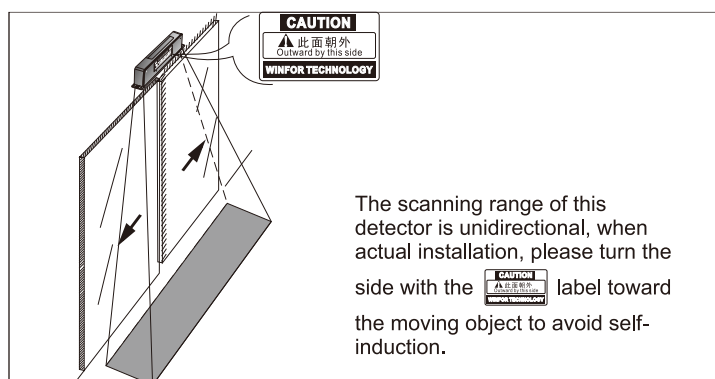
8 Detection Range

Note: Presence detecting area





9 Precautions



10 Technical Parameters

Power input:	AC/DC 12-30V(-/+10%)
Ray type:	Infrared modulated light
Optical source:	Infrared 940nm
Light beam:	8 transmitting, 8 receiving
Static current:	30 mA
Action current:	62 mA
Learning time:	Dynamic stability for 2 seconds
Operating display:	Standby mode: blue LED on; Detecting mode: Red LED on
Temperature:	-40°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:	$\leq 100\text{ ms}$
Switch mode:	Sensitivity can be switched, background update time can be selected
Signal output:	Relay, 1 pair of selectable contact points
Connection:	5-pin connect terminal
Shell material:	ABS
Optical surface:	PMMA
Installation methods:	Surface mount or concealed mount
External dimension:	200(L)x54(W)x32(H)mm (surface mount) 152(L)x25(W)x36(H)mm (hidden hole size)

11 Packing List

NO.	PART	QTY	UNIT	REMARK
1	Sensor	1	PC	
2	5-pin line	1	PC	165mm
3	Screws	1	PC	
4	Operating instructions	1	Bag	
5	Surface mount cover	1	PC	Silver or black can be selected