

Operation Instructions

Make your choice...

M-507 Motion & Safety Infrared Sensor

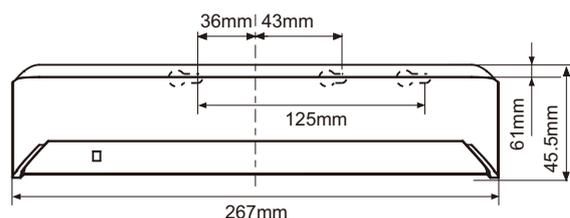
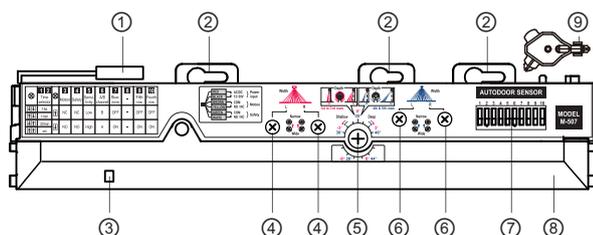


1 Safety Instructions



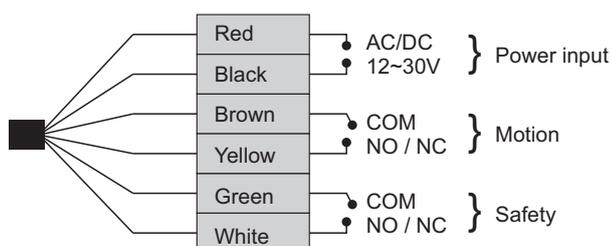
The device must be protected with safety insulation at low voltage. All adjustment and maintenance work must be carried out by a professional engineering installer.

2 Product Overview



- ① Connector ② Installation hole ③ Action indicator light ④ Width adjusting screws of inside three rows ⑤ Depth angle adjustment screw
 ⑥ Width adjusting screws of outside two rows ⑦ DIP switch ⑧ Detecting window ⑨ Adjustment tool

3 Wiring Diagram



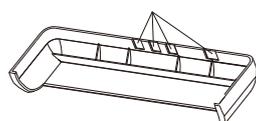
- Note:** 1, When connecting the wire, please don't tear the protection cover, as this may cause an electric leakage hazard or sensor failure.
 2, Check whether the sensor is properly connected to the door controller. Power the sensor and adjust its detection range.
 3, Please don't enter the detection area after power on and during the green LED light flashes.

4 Installation

- 1, Measure and mark the positions of the installing holes, according to the installation diagram.
- 2, Drill two fixing screw holes of $\phi 3.5\text{mm}$.
- 3, And drill one wiring hole of $\phi 8\text{mm}$.
- 4, Fix the sensor tightly by 2 screws.

NOTE: Please install the sensor on the door head as low as possible, but make sure the sensor is not lower than the bottom of the door head.

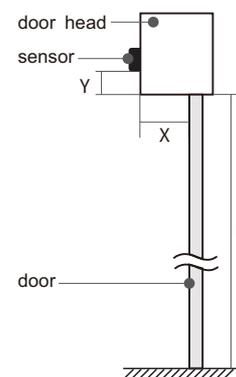
If wiring with surface-mounted way, can cut the outside shell concealed hole wire.



If wiring with surface-mounted way, please cut the concealed holes of outer shell for wiring.

- H. Distance from the ground to the bottom of the door head.
 X. Distance from the door to the fix surface.
 Y. The maximum distance from the bottom of door head to the sensor.

		(mm)				
X \ Y \ H	2000	2200	2500	3000	3500	
50	200	200	200	200	200	
100	180	180	180	180	200	
150	100	100	120	150	170	
200	50	80	100	120	140	

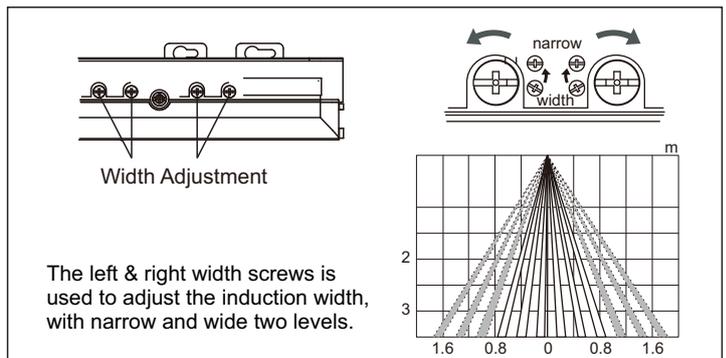
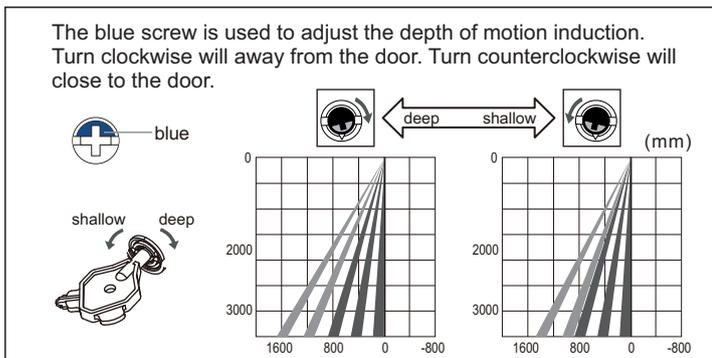
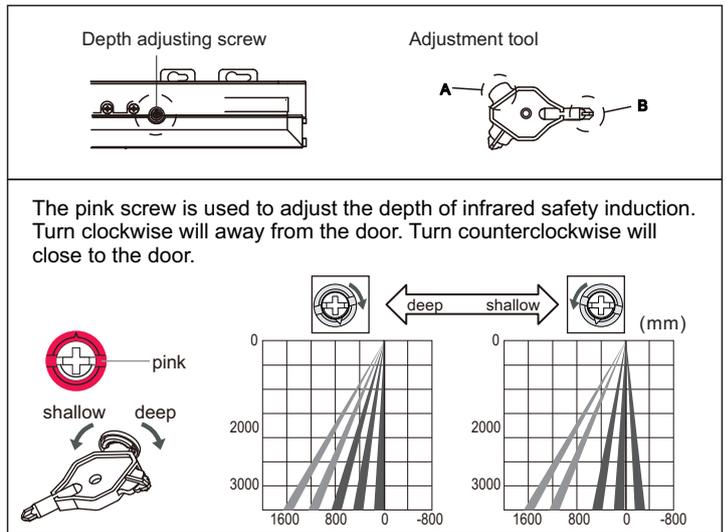
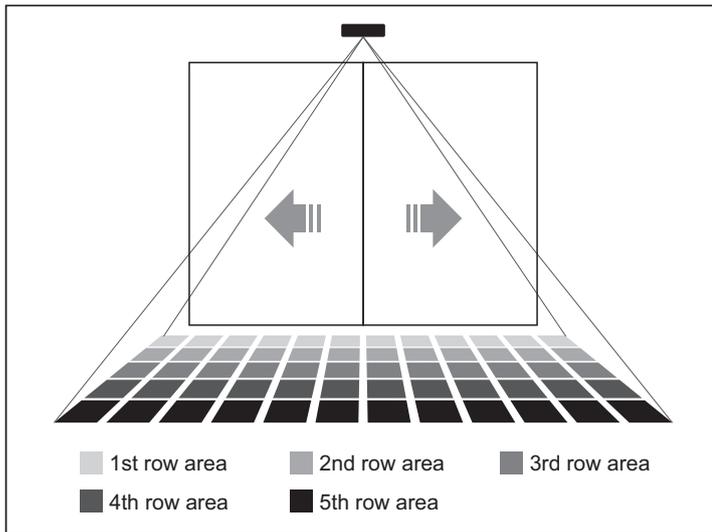


5 DIP Switch

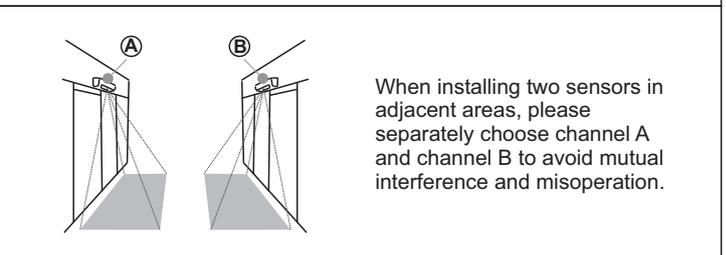
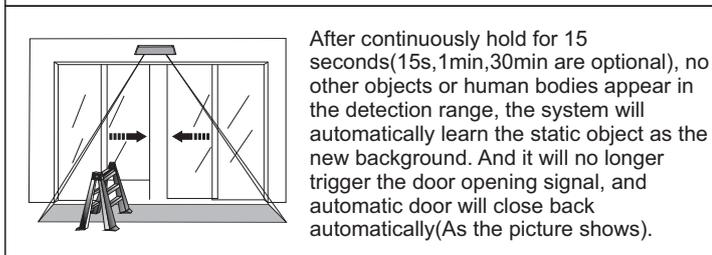
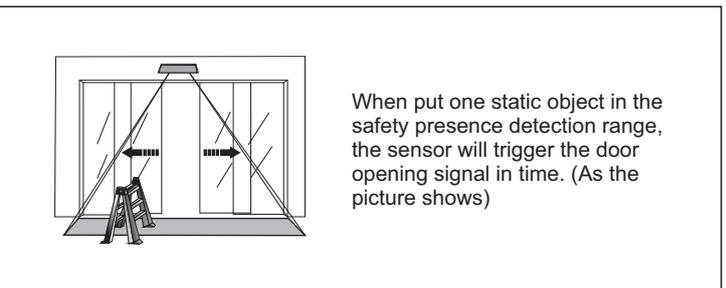
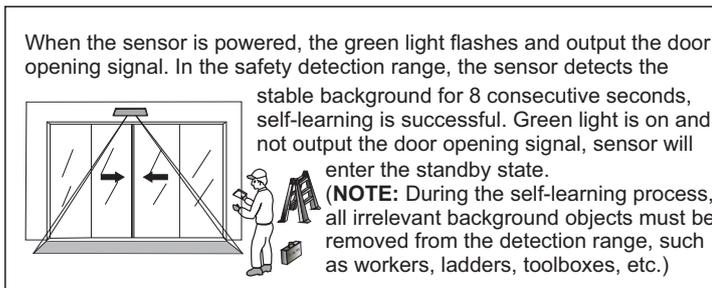
1 2	3	4	5	6	7	8	9	10
Time selector	Motion	Safety	Sensitivity	A/B channel	Bluezone	-	Fifth row	Fourth row
↓↓ 15s ↑↓ 1min	↑ NC	↑ NC	↑ Low	↑ B	↑ OFF	-	↑ OFF	↑ OFF
↓↑ 30min ↑↑ Not update	↓ NO	↓ NO	↓ High	↓ A	↓ ON	-	↓ ON	↓ ON

NOTE: If the fourth row OFF, please turn OFF the fourth and fifth row at the same time, otherwise it will be invalid.

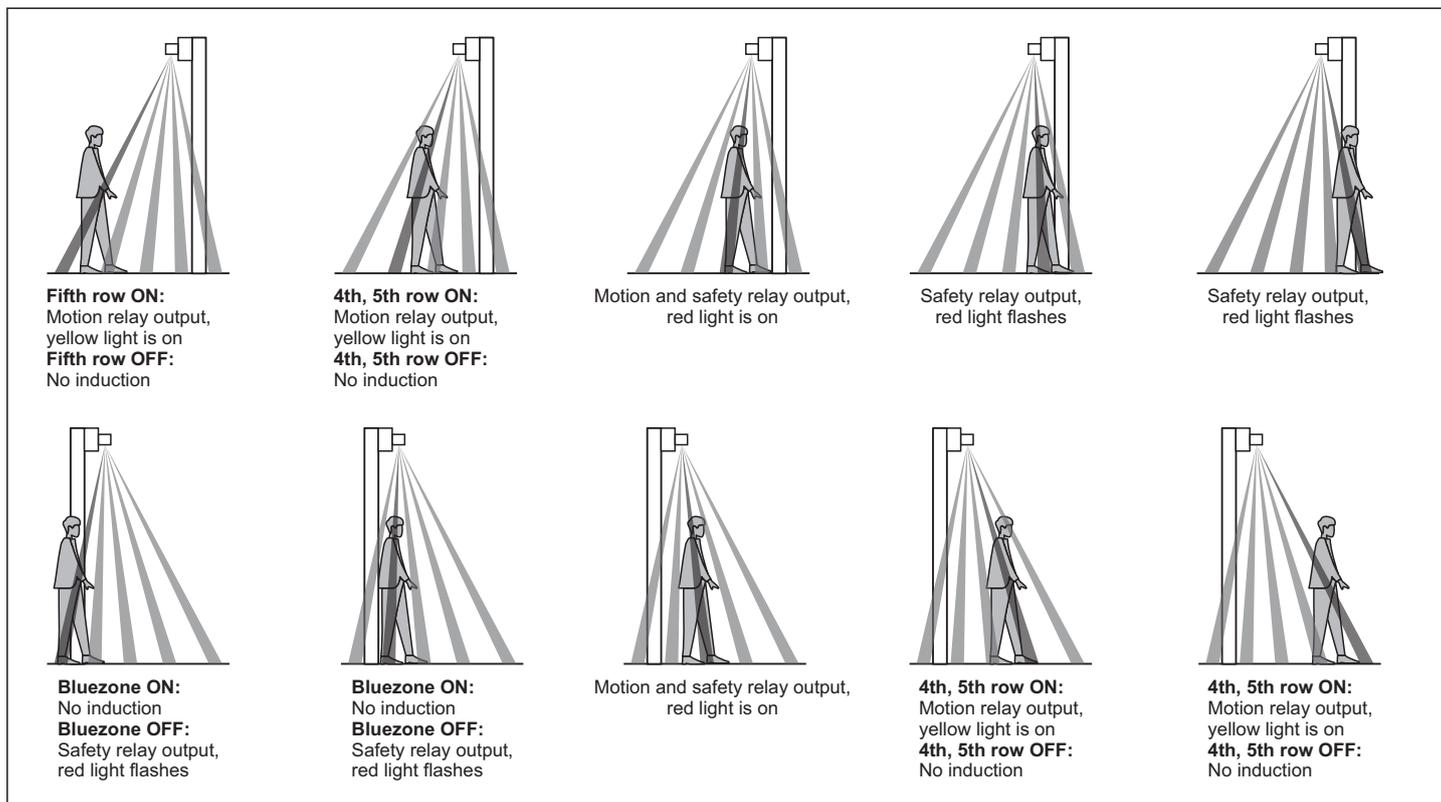
6 Detection range



7 Attentions



8 Output Diagram



9 Parameters

Power Input:	AC/DC 12~30V(±10%)
Cable length:	2.5m
Signal output:	Relay, 1 way motion, 1 way safety (NO/NC optional)
Max installation height:	3500mm
Static current:	39mA(DC 12V power)
Action current:	105mA(DC 12V power)
Material:	Optical surface with PMMA, shell with ABS
Ray type:	Infrared modulated light
Ray source:	infrared 940nm
Light beam:	2 way safety, 6 transmitting, 24 light spot; 1 way motion and safety, 3 transmitting, 12 light spot; 2 motion, 6 transmitting, 24 light spot
Self-learning time:	Dynamic stability learning for 8s
Temperature:	-25°C~55°C
Detection range:	2500(W)x1400(D)mm(Installation height=2.5meter)
Output maintain time:	safety 1.2s, motion 2s
Respond time:	≤150ms
Background update time:	15s, 1min, 30min, not update, 4 levels optional
Operation display:	Learning background: Green LED flashes; Standby state: Green LED is always on; Motion: Yellow LED is on; 1st&2nd row safety: Red LED flashes; 3rd row safety: red light is on.
Dimension:	268(L)x61(W))x38(H)mm(exclude bottom shell)

10 Packing List

NO.	PART	QTY	REMARK
1	Sensor	1	
2	Operating instructions	1	
3	Screws bag	1	
4	6-pin line	1	2.5m
5	bottom shell	1	