



YLI ELECTRONIC

# Presence Curtain Sensor

Model: YAD-120DT

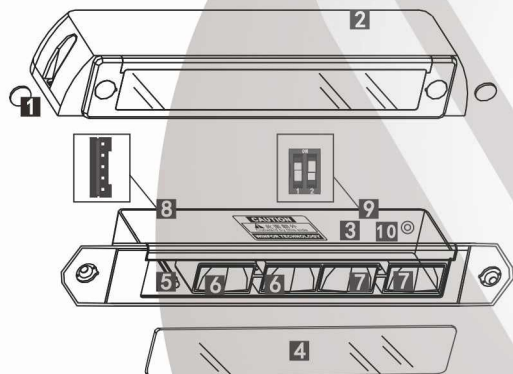


## 1 Security Guide



This device must use protective safety isolation low voltage, and adjustment or maintenance must be done by professional installation contractor.

## 2 Product Overview



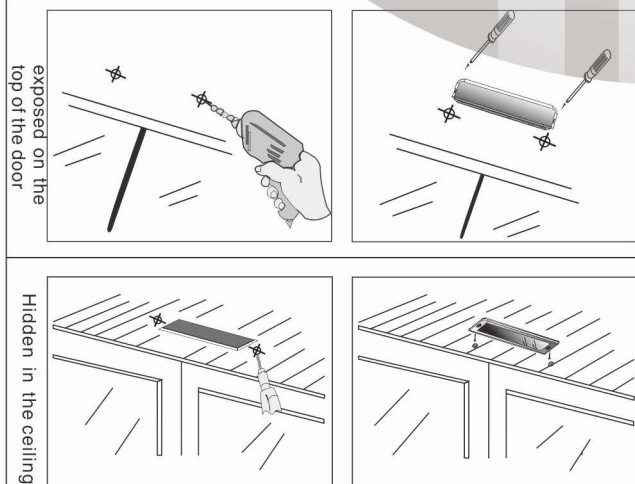
- 1 Decorative cap
- 2 Exposed cover
- 3 Master controller
- 4 Optical surface lens
- 5 LED indicator
- 6 Transmitter window
- 7 Receiver window
- 8 Wiring terminal
- 9 Function setting
- 10 Sensitivity Adjuster

## 3 Overall Characteristics

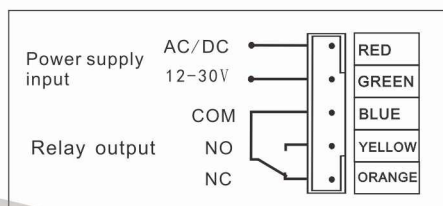
- This curtain sensor are special designed for automatic sliding door to detection and keep safety. High accuracy.
- Advanced infrared scanning technology. Stable and reliable.
- Have function of background self-learn. Can learn background auto-matically when power on. Suit all kinds of occasions.
- Always self-correcting once be influenced by quake, distortion, move, dark and sunshine. Ensure the sensor can work durable.

## 4 Installation

Two ways of installation: on the top of the door or hidden in the ceiling.



## 5 Wiring Diagram of Input and Output



## 6 Function Setting

Working mode: High sensitivity or low sensitivity



► High sensitivity: switch 1 up

– Default setting is high sensitivity mode.



► Low sensitivity: switch 1 down

– If the reflectance of working environment is strong, it should set to low sensitivity to avoid self-induction or background mistaken.

Scanning Width: Width 2000mm or 1000mm



► Scan Width 2000mm: switch 2 up

– If the scan width is wide range, it should set to 2000mm.



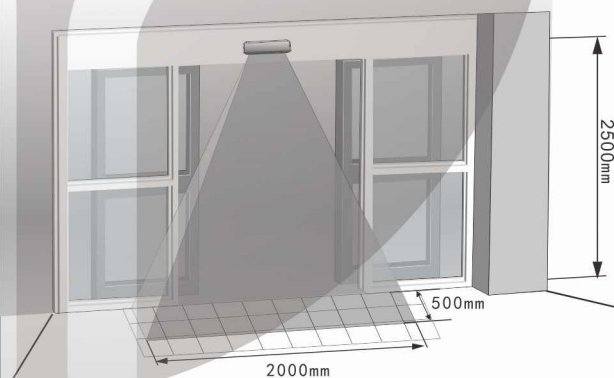
► Scan Width 1000mm: switch 2 down

– If the scan width is narrow range, it should set to 1000mm.

## 7 Detection Area

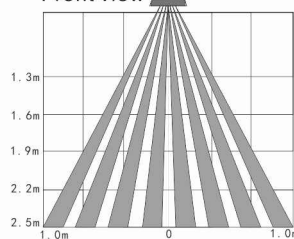
Note

presence detection area

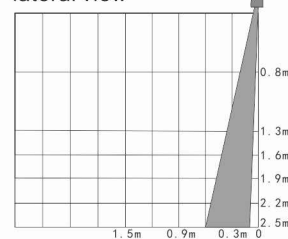


Starting up: This detector has function of background self-learning. After getting power on, red light will be always on. Pls leave the detection area empty. After 6S, the background is learnt successfully.

Front view

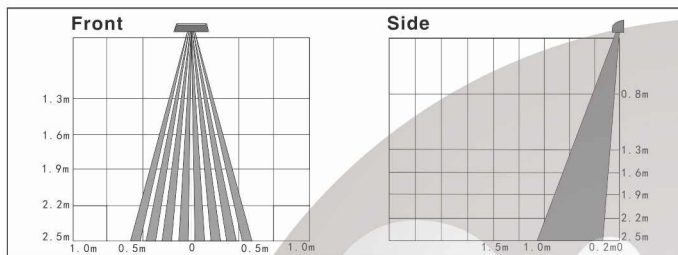
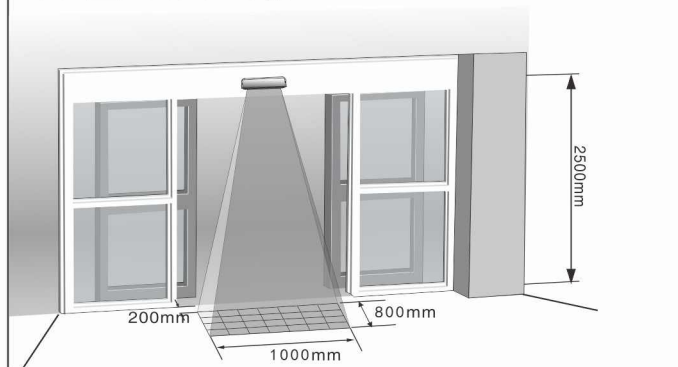


lateral view

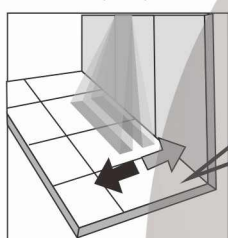


B. For narrow scanning range, system function set to 1000mm

Note: ■ Detection range



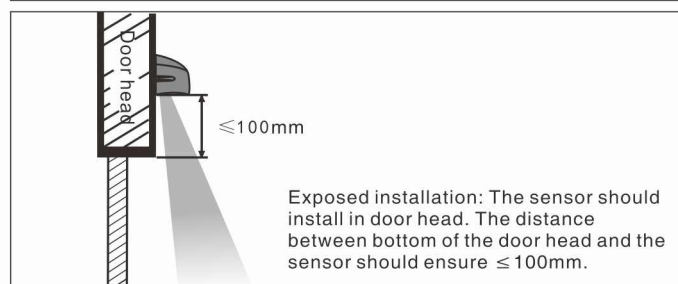
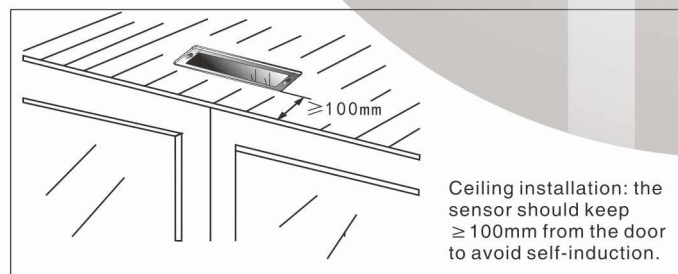
Sensitivity Adjuster



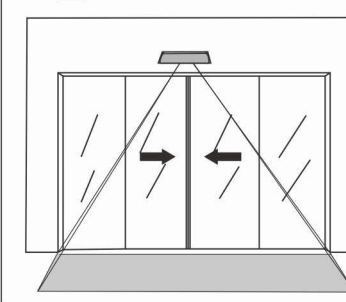
NOTE □ Clockwise to adjust detection range moves inside

counterclockwise to adjust detection range moves outside.

## 8 Attention



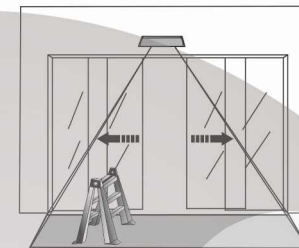
Note: ■ Detection zone



Please keep the door closed before the sensor is in background self-learning process. The debug person and any other objects such as ladder, tool kit must be out of the detection area when sensor is in the self-learning process.



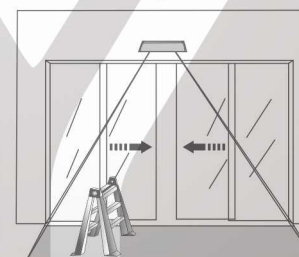
Note: ■ Detection area



The sensor will output door opening signal when a object be put within the detection area. (as picture showed)



After 18s with no other objects or people enter in, the sensor will regard that object as a part of background and door will close back.



Remove the object, system will get back to the original background, output door open signal around 2S, and get back to standby system.

## 9 Technical Parameter

Power output	AC/DC 12~30V (-/+10%)
Type of ray	Infrared light modulation
Photosource	Infrared 940nm
Quiescent current	35mA
Working current	73mA
Self-learn time	15s
Operating display	Standby: blue LED, Detecting: red LED
Temperature range	-40°C ~ 60°C
Maximum installation	2500mm
Maximum detection area	2000 (W) × 500 (D) mm
Hold-Up time	500ms
Response time	≤100ms
Changeover mode	High/Low sensitivity and FA/FB adjustable
Signal output	Relay, 1 pair contact point optional
IP	IP54
Mechanical behavior	Maximum
Connection	1-1.5mm <sup>2</sup> 5pin terminal
Shell	ABS
optical surface	PMMA
Installation	Exposed or Conceal
Weight	about145g
Dimension	Exposed 200 (L) × 49 (W) × 32 (H) mm
	Conceal 152 (L) × 38 (W) × 25 (H) mm