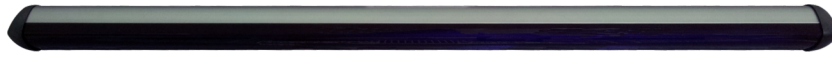


Argus Beam

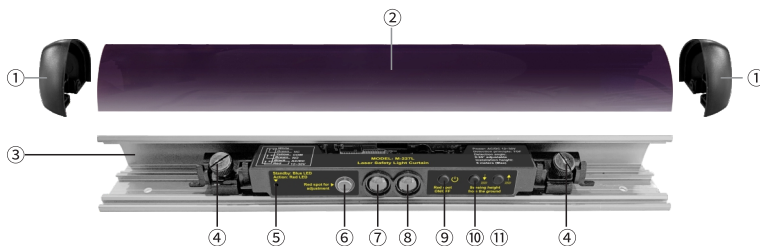


1 Safety instruction



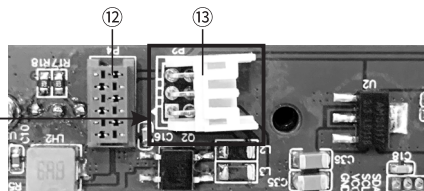
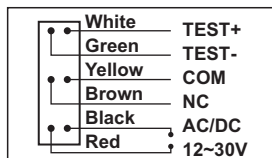
Thanks so much for your purchasing, please read this instruction before using

2 Product Overview



- ① End cover
- ② Filter front cover
- ③ Aluminum housing
- ④ Mounting Brackets
- ⑤ Indicator light
- ⑥ Positioning red dot
- ⑦ Transmitting cabin
- ⑧ Receiving cabin
- ⑨ Red spot ON/OFF switch
- ⑩ Scan range close to ground switch
- ⑪ Scanning range away from ground switch
- ⑫ Wire interface x 2
- ⑬ Connection socket

Wiring Diagram ►



Remark: According to the usage, maybe you need to dismantle the left or right end cover. First loosen the screws, then removal teh end cover and front cover.

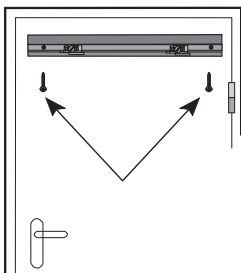
3 Installation and debugging

Installation



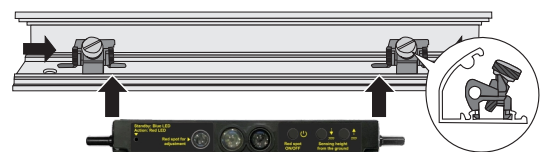
- Option 1:** Loosen the two screws from the mounting bracket, then push them to another side. [1]
- Option 2:** Loosen the screws. Then take the bracket holder and the sensor out from aluminum housing carefully.

[2]



Install the aluminum housing on the door leaf.

[3]



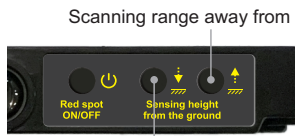
Loosen the screws before connect the mounting brackets to the housing. Put the sensors into the aluminum housing and tighten the two mounting brackets to the sensor.

Debugging



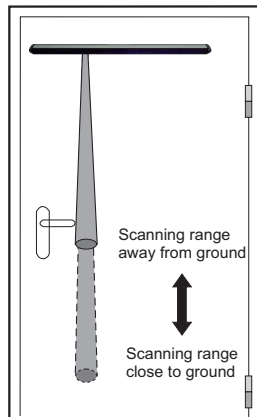
Each adjusted the position of laser beam, **please recover the filter cover, power-off then re-power on**, self-learning with 8 seconds. When you hear a quick beep and a blue light flash, it means that it's in the learning background. When you hear a long beep, the learning is complete, the blue light is always on, and the system can work normally. Generally, no special adjustment is required. The factory default scanning range is about 35cm from the ground. If adjustment is required, the steps are as follows:

[1] Adjust the scanning range by button



Scanning range close to ground

The scanning range total 7 levels, push button once, one beep voice, scanning range increase or decrease about 5cm, if you hear two beep voice, it's mean the scanning range is to the limit(Factory default the 4th level).



[2] Working mode



Normally Mode

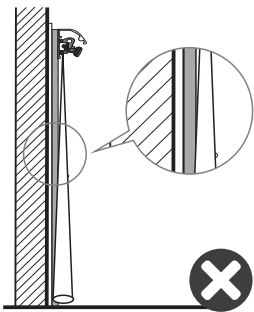
Push and hold the button for 5s, with a long beep voice, then release it, entering the normally state.

Stable Mode

Push and hold the button for 5s, with a long beep voice, then release it, entering the stable state.

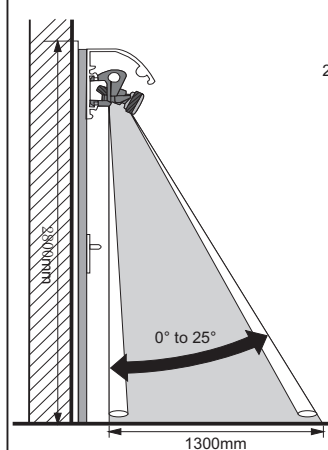
The stable mode is recommended when there are unstable environmental factors such as floating blades, complex ground, and rainy days. The factory default is normal mode.

[3]



When install it on the door leaf, recommended that the tilt angle of sensor will be $\geq 15^\circ$, ensure laser beam doesn't scan the door leaf, sensor detection will be more stable.

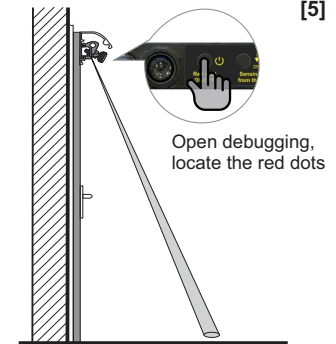
[4]



Adjust the angle of two sides to be same(can be read by scale), or the sensor in the case will incline.

Use the ratchet pawl in mounting bracket to set tilt angle.

[5]



Open the debugging positioning red dots, confirm the general position of the sensing beam(Red dots isn't laser beam, laser beam is invisible light)

[6] TEST signal input high/low switch

- | | | |
|--------|--|--|
| STEP 1 | | Push and hold " Scanning range close to ground switch" for 5 seconds |
| STEP 2 | | You will hear one long beep, and don't release the switch |
| STEP 3 | | Continue to push and hold it for 5s |
| STEP 4 | | You will hear one long beep again |
| STEP 5 | | Release it |

- | | |
|---|---|
| | |
| | |
| Heard one long beep | Heard continuous short beep |
| | |
| Test signal is switched to high input active (Factory default high input active) | Test signal is switched to low input active |

[7] Output signal NO/NC switch

- | | | |
|--------|--|---|
| STEP 1 | | Push and hold " Scanning range away from ground switch" for 5 seconds |
| STEP 2 | | You will hear one long beep, and don't release the switch |
| STEP 3 | | Continue to push and hold it for 5s |
| STEP 4 | | You will hear one long beep again |
| STEP 5 | | Release it |

- | | |
|---|--|
| | |
| | |
| Heard one long beep | Heard continuous short beep |
| | |
| Output signal is switched to NC signal (Factory default NC signal) | Output signal is switched to NO signal |



NOTE: When the test signal function is not used, it must be set in the high input active state, otherwise the sensor will not work normally.

[8]



Restore factory settings

STEP 1



Press and hold the two scanning range keys for 3 seconds at the same time

STEP 2



You will hear the continuous short beep, then release it

STEP 3



The system restore factory settings successfully.

Restore data includes: 1, Scanning range return to the 4th level; 2, Working mode returns to normal mode;
3, Test signal output is high output active; 4, Output signal is NC signal.

[9]



After finish all settings, tighten the screws of mounting bracket to stabilize the sensor

[10]

Close the filter front cover, tighten the screws of the end cover.

Complete the installation, power them on so they can relearn the background.



[11]



Multiple sensors can be connected to each other by side-by-side wires.
Remark: The operating voltage and relay output need only be connected once to any sensor.

4 Troubleshooting

| Symbol | Reason | Methods |
|--|---------------------------------------|--|
| Sensor indicator light don't work, no beep voice | Power supply isn't connect | Check the power supply and wiring |
| When door open, red light flashes, door run unstable | Scanning range is too close to ground | Adjust the scanning range height |
| Sensor indicator light is normal, door is always open | Signal cable NO NC connection error | Reconnect the signal cable correctly |
| Sensor red indicator is always on, door is always open | Background learning don't complete | Power off then power on and learn background |

5 Technical parameters

| | |
|--|--|
| Detection principle: Time-of-Flight technology(TOF) | Working voltage: AC/DC 12-30V |
| Light medium: 890nm infrared laser | Standby current: 50mA(12V power) |
| Laser category: Class I eye-safe laser | Action current: 90mA(12V power) |
| Detection diameter: 100mm light spots(2.8meters height) | Signal output: Relay NO or NC |
| Detection reaction time: ≤50ms | Trigger mode: Moving or stationary |
| Detection range: away from the ground large than 20CM | Function instruction: LED indicator, standby: BLUE, detection: RED |
| Detection angle: 0-25° adjustable | Shell material: Aluminum alloy, ABS, PC |
| Installation height(max): 5m(fixed position), 3.5m(moving door leaf) | Sensor dimension: 310x31x20mm, 620x31x20mm, 750x31x20mm, 900x31x20mm, 1200x31x20mm(optional) |
| Working temperature: -20°C~60°C | |

6 Packing List

| NO. | NAME | QUANTITY | REMARK |
|-----|-----------------------------|----------|--------|
| 1 | Laser safety curtain sensor | 1 pc | |
| 2 | Operation instructions | 1 pc | |
| 3 | Cable | 1 pc | 65cm |
| 4 | Installing bracket | 1 pc | |
| 5 | Screw bag | 1 bag | |