Operation Instructions

M-220L Vertical Safety Laser Sensor

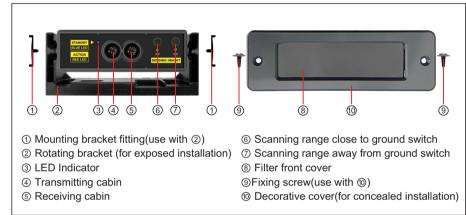


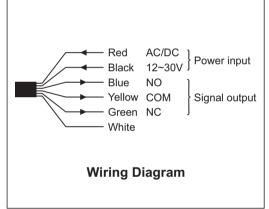
1 Safety instruction



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

2 Product Overview & Wiring Diagram

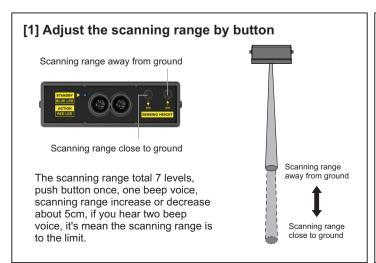


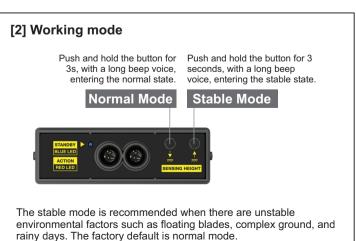


3 Product Debugging



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:





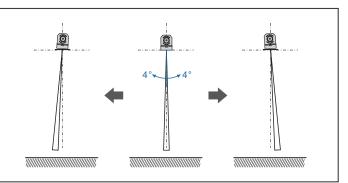


In order to more accurately adjust the side detection range of the sensor, this device with front and rear scanning ranges fine-tuning settings.



▼ Flexible rotating angle by exposed installation

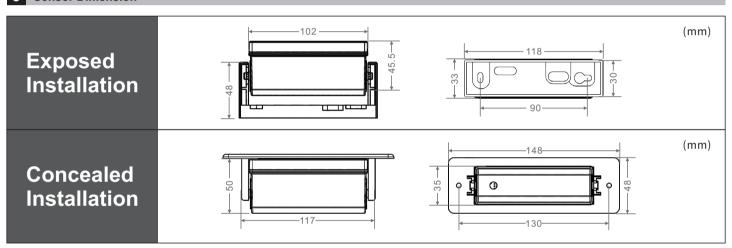
Front and rear 4° range
adjustable by concealed installation



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 Sensor Dimension



6 Technical parameters

Detection principle: Time-of-Flight technology(TOF)	Working temperature: -20°C~60°C
Light medium: 890nm infrared laser	Working voltage: AC/DC 12-30V
Laser category: Class I eye-safe laser	Standby current: 50mA(12V power)
Detection diameter: 100mm light spots(2.8meters height)	Action current: 90mA(12V power)
Detection response time: normal mode 20ms, stable mode 100ms	Signal output: Relay NO or NC
Detection range: away from the ground large than 20CM	Trigger mode: Moving or stationary
Detection angle: ±4° adjustable when exposed installation	Function instruction: LED indicator, standby: BLUE, detection: RED
Installation height(max): 5m(fixed position), 3.5m(moving door leaf)	Shell material: ABS, PC

7 Packing List

No.	Parts	PCS	Remark
1	Sensor	1	
2	Instructions	1	
3	Bracket with expose installation	1	
4	Bracket with concealed installation	1	
5	Screws bag	1	Rubber plug*2, screws*4, Mounting bracket fitting*2