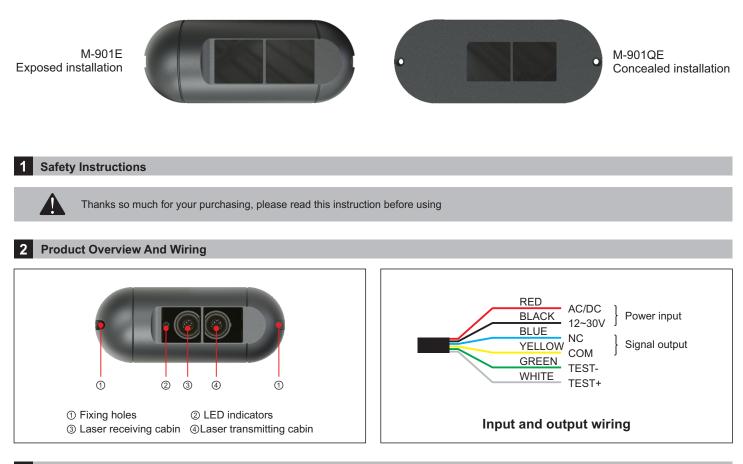
Operation Instructions

Make your choice...

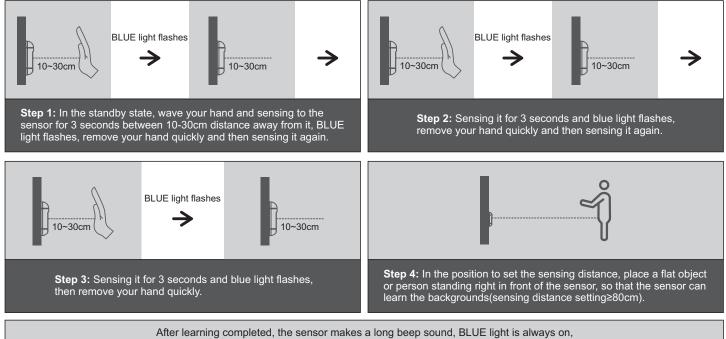
M-901E/901QE Laser safety sensor



3 Installation and Debugging

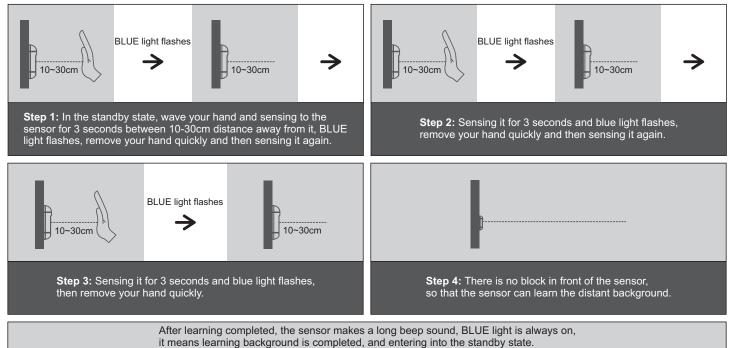
Connect the power, the sensor makes "beep beep ..." sounds and BLUE light flashes quickly, it means that it's in the initial background learning state. When you hear a long beep sound, learning completed, BLUE light is always on, sensor entering into the standby state(When the sensor with background cut, it enters the standby state directly after power-on). When the sensor detects the presence of a human body or objects, RED light is on. **NOTE: After power-on, complete the setting within 5 minutes. If not setting due to timeout, power off and power on again, then to setting.**

3-1. Set the sensing distance

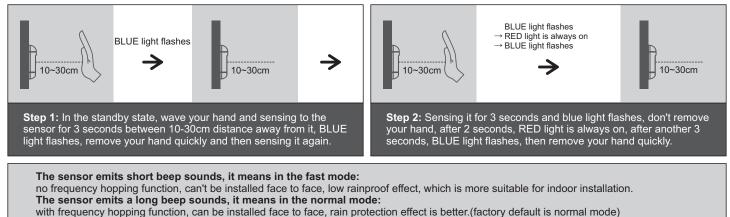


it means learning background is completed, and entering into the standby state.

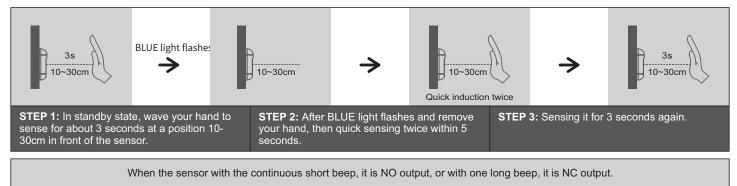
3-2. Cancel the sensing distance setting



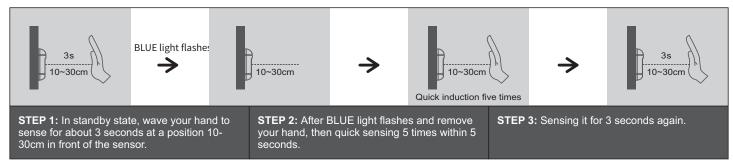
3-3. Normal mode / Fast mode



3-4. NO/NC output setting



3-5. TEST signal output setting



When the sensor with the continuous short beep, it is low input active, or with one long beep, is is high input active.

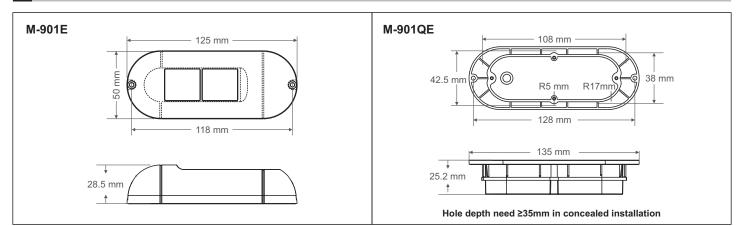


NOTE: When the test signal function is not used, it must be set in the high input active state, otherwise the sensor will not work normally.

4 Trouble shooting

| Symbol | Cause | Method |
|---|---|--------------------------------------|
| Indicator light don't work | Unconnect the power | Check the power supply and wiring |
| Indicator light is normal, but door can't be opened or opposite state | NO/NC signal are connected incorrectly | Reconnect the signal cable correctly |
| Power on and after learning background, RED indicator is always on | Set the sensing distance, and far than current distance | Cancel the sensing distance setting |
| Sensing distance is too near | Inductive distance cutting has been set | Reset the sensing distance cutting |

5 Dimension



6 Technical Parameter

| Detection principle: Time of Flight (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: 25mA(12V power) |
| Detection diameter: 100mm light spots(2.8meters height) | Action current: 45mA(12V power) |
| Detection reaction time: ≤100ms | Signal output: Relay NO or NC |
| Max detection distance: 10 meters | Trigger mode: Moving or stationary |
| Min cutting distance setting: 80cm | Function instruction: LED indicator, standby: BLUE, detection: RED |
| Waterproof grade: IP67 | Shell material: ABS, PC |

7 Packing List

| NO. | NAME | QUANTITY | REMARK |
|-----|-----------|----------|--------|
| 1 | Sensor | 1 pc | |
| 2 | Screw bag | 1 bag | |
| 3 | Manual | 1 pc | |