

Operation Instructions

Make your choice...

LV802E Exposed Installation Human Figure Recognition Sensor



1 Safety Instruction

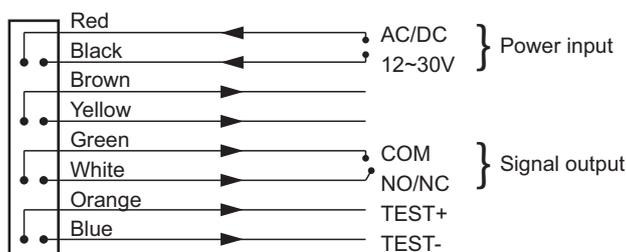


Thank you very much for purchasing this products, in order to use it correctly, please read this manual carefully before use it.

2 Product Overview

| | | |
|---------------|--|---|
| Sensor | | |
| Shell | | |
| Base | | <ul style="list-style-type: none"> ① Metal shrapnel ② Sensing range adjustment button *6 ③ LED indicator light ④ Camera ⑤ Sensitivity adjustment button ⑥ Wiring terminal ⑦ Front cover ⑧ Top cover ⑨ Bottom case ⑩ Mounting screw holes ⑪ Mounted threading hole ⑫ base install screw holes *2 |

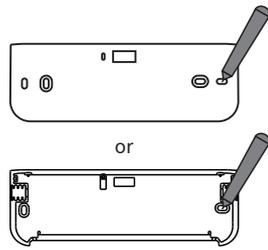
3 Wiring Diagram



4 Installation

[1]

Place the base in the appropriate place, and mark the position (please keep a distance of 2-5cm between the sensor and the door edge). If no need the base, please directly place the bottom case to the place where you need to install and mark the hole position.



[2]

Drill the mounting holes and mounted threading hole according to the mark on the door.



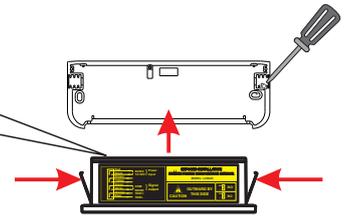
[3]

Fix the base or the sensor's bottom case by screws, tight the metal shrapnel on the both sides of the sensor, and place the sensor into the bottom case.

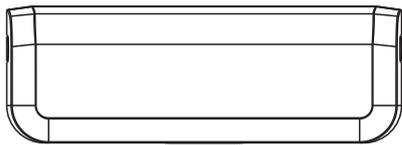
Attentions

The scanning range of this series of sensors is unidirectional, when installation on site, please put the "Outward by this side" sign towards the human figure induction direction.

CAUTION OUTWARD BY THIS SIDE



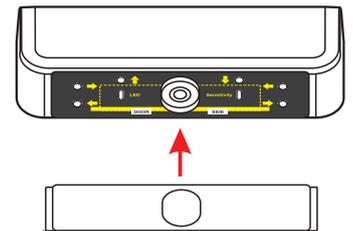
[4]



In line with wiring diagram to connect with automatic door operator, and close the top cover.

[5]

Debugging is completed, close the semi-transparent cover (refer to step 5 to debugging).



5 Adjustment

Startup

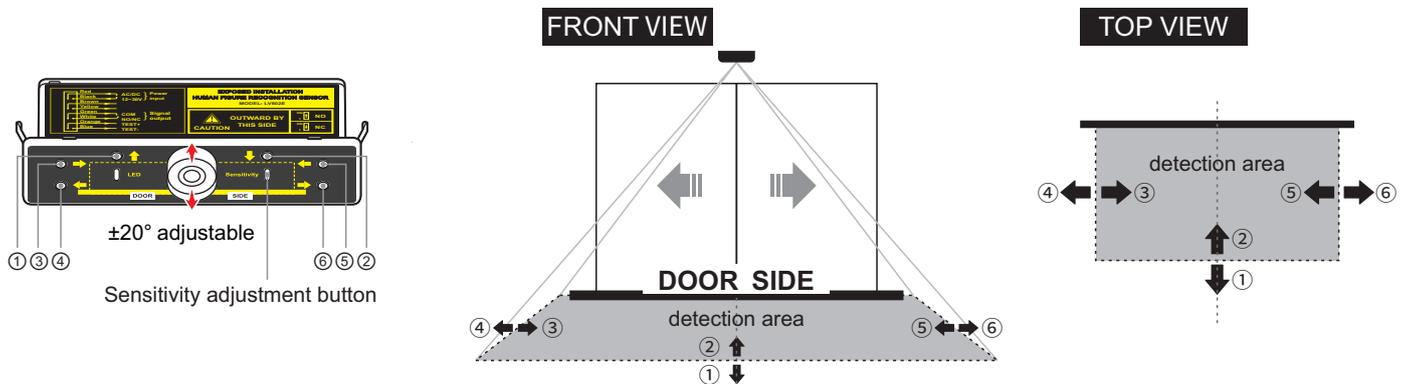
About 30 seconds after power-on, it is the start time of the internal program of the sensor, until you hear a long sound of "beep -", indicating that the sensor enters the working state.

Sensitivity

Each time you press the **sensitivity adjustment button**, sensitivity is switched once, low sensitivity (three beep sounds), medium sensitivity (two beep sounds), high sensitivity (one beep sound), in total of three working mode adjustable (The factory defaulted is high sensitivity).

Detection range

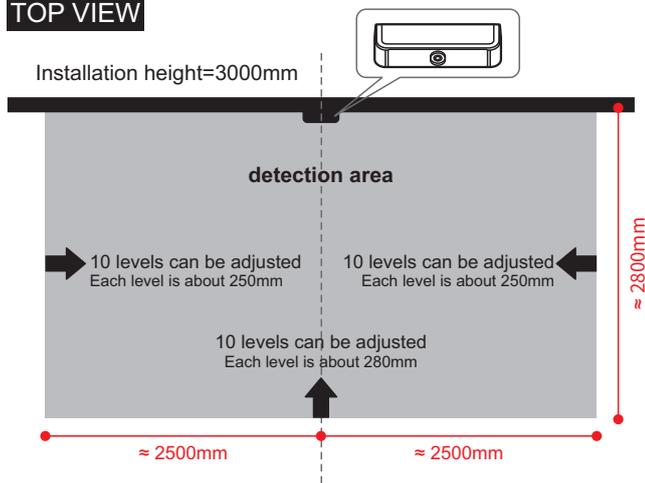
- 1) Camera's angle is $\pm 20^\circ$ adjustable, detection range will move as a whole.
- 2) In the standby state, press the **sensing range adjustment button**, to adjust the detection area.



3) Every time you press the **sensing range adjustment button**, the detection range of the every corresponding edge (as shown in the figure) will move 1 level, total of 10 levels, until the sensor have beep beep sounds, means the detection range has been adjusted to limit, the limiting position of edge ③⑤ is center line.

Factory default detection range

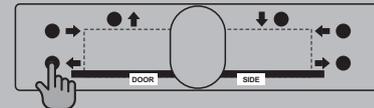
TOP VIEW



Restore the default detection range



Don't know the current detection range

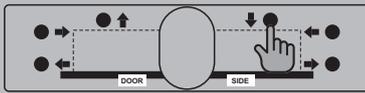


Press and hold " ← " button for 5 seconds

↓ hear a beep sound

Restore the default

TEST signal input high/low switch



Press and hold " ↓ " button for 5 seconds

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



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.

6 Troubleshooting

| Failures | Possible reasons | Improvements |
|---|---|--|
| LED indicator light off | The sensor is not connected to power supply | Check the cable connection, and whether power supply is normal |
| Red light is always on, but door won't be opened | Wiring fault | Check and adjust the wiring, re-power on |
| 1, Detection isn't sensitive enough; 2, Object movement leads to false triggering. | Sensitivity is too low or too high | Adjust the sensitivity |
| People near to the doors, but sensing fails | Detection range adjustment deviation | Restore the default detection range and adjust it again |



Due to the limitations of AI Neural Network deep learning, in some special scenes, the system will output certain confidence for some non-human figure objects (similar human figure), and it is possible to output signal. Please try to solve the problem by the following methods:

- 1, Rotate the position of the objects, may not be recognized as a human figure.
- 2, Reduce the sensitivity.
- 3, Adjust the lens angle of camera or adjust the detection selection area, so as to avoid the object appearing in the screen.

7 Technical parameters

| | | | |
|------------------------|---------------------------------|---------------------------|-----------------------------------|
| Detection function: | human figure activated, safety | Standby current: | 87mA / night vision 97mA(DC 12V) |
| Camera pixel: | HD 1080P | Action current: | 90mA / night vision 100mA(DC 12V) |
| Response speed: | 100ms | Working temperature: | -20°C~60°C |
| View angle adjustment: | ±20° | Working humidity: | 10%~90%RH |
| LED indicator: | standby in BLUE, sensing in RED | Installation height(max): | 5 meters |
| Power supply: | AC/DC 12-30V | Dimension: | 157(L)x53(W)x34(H)mm |

8 Packing list

| NO. | ITEM | PCS | REMARK |
|-----|---------------------------|-----|----------------------|
| 1 | Sensor | 1 | sensor, and 3 covers |
| 2 | 8-Pin cable | 1 | 2500mm |
| 3 | Screws bag | 1 | |
| 4 | Installation instructions | 1 | |