Operation Instructions

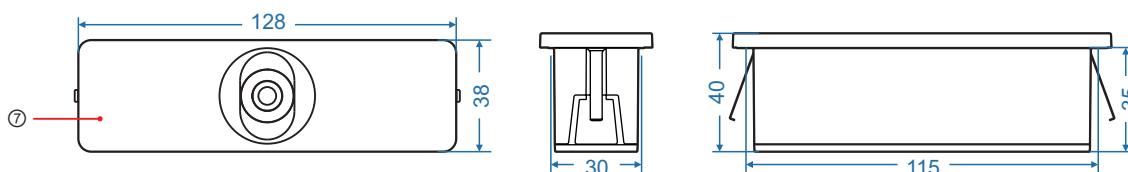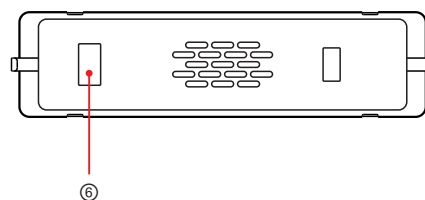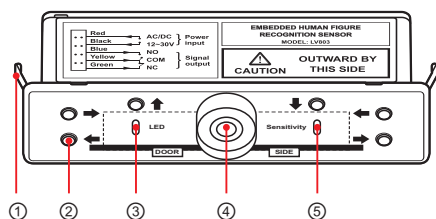## LV803 Embedded Human Figure Recognition Sensor

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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.
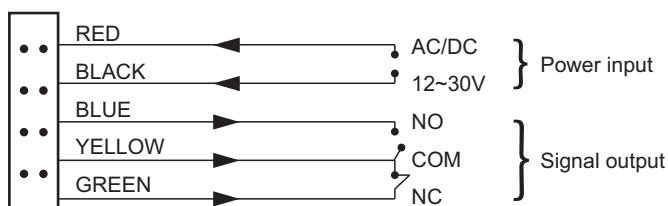
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2 Product Overview

Product dimensions: 128(L)x38(W)x40(H)mm   Mounting hole dimensions: 115(L)x30(W)x40(H)mm
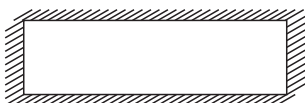
① Metal shrapnel   ② Sensing range adjustment button x 6   ③ LED indicator light   ④ Camera
⑤ Sensitivity adjustment button   ⑥ Wiring terminal   ⑦ Front cover

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3 Wiring Diagram

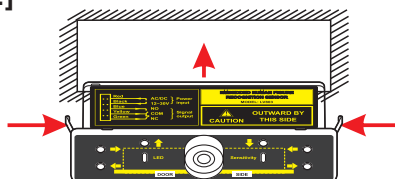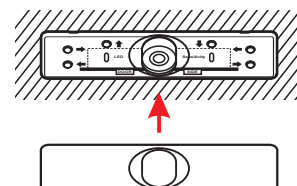| Wire	Terminal	Function
RED	AC/DC	Power input
BLACK	12~30V	
BLUE	NO	Signal output
YELLOW	COM	
GREEN	NC	

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4 Installation

[1]

Make sure the appropriate position, and drill the holes based on the hole size of the manual.
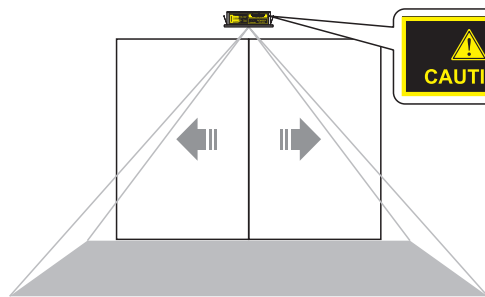
[2]

Tight the metal shrapnel on the both sides of the sensor, place the sensor in the mounting hole.

[3]

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

⚠ CAUTION OUTWARD BY THIS SIDE

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.

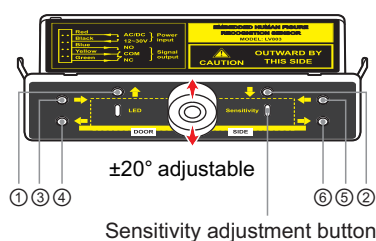## 5　Adjustment

| **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 ±20° adjustable, detection range will move as a whole. 2) In the standby state, press the **sensing range adjustment button**, to adjust the detection area.

±20° adjustable

Sensitivity adjustment button
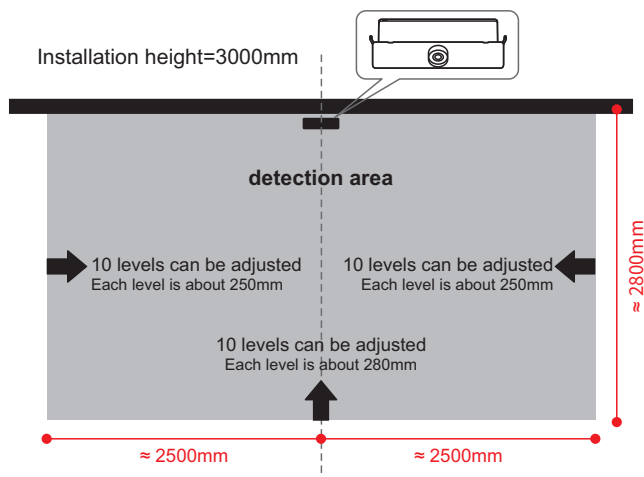
FRONT VIEW

TOP VIEW

detection area

DOOR SIDE
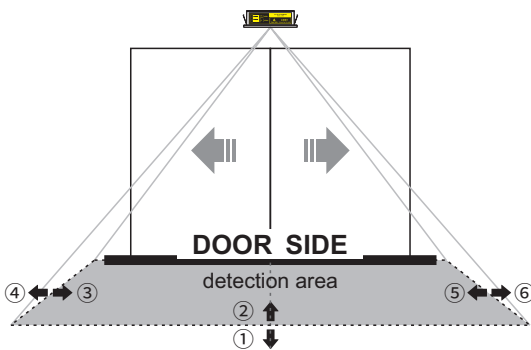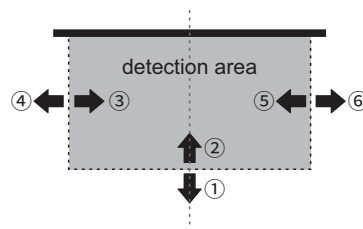
detection area

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

Installation height=3000mm

detection area

10 levels can be adjusted
Each level is about 250mm

10 levels can be adjusted
Each level is about 250mm

10 levels can be adjusted
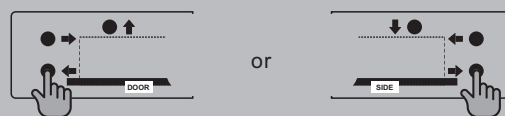Each level is about 280mm

≈ 2800mm

≈ 2500mm   ≈ 2500mm

Restore the default detection range

Don't know the current detection range

or

Press and hold "◀" or "▶" button
for 5 seconds

hear a beep sound

Restore the default

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 nomal
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 condidence 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
Camera pixel:	HD 1080P
Response speed:	100ms
View angle adjustment:	±20°
LED indicator:	standby in BLUE, sensing in RED
Power supply:	AC/DC 12-30V
Standby current:	95mA (DC 12V)
Action current:	110mA (DC 12V)
Working temperature:	-20°C~60°C
Working humidity:	10%~90%RH
Installation height(max):	5 meters
Dimension:	128(L)x38(W)x40(H)mm

8   Packing list

NO.	ITEM	PCS	REMARK
1	Sensor	1	sensor, and 3 covers
2	5-Pin cable	1	2500mm
3	Installation instructions	1	