Operation Instructions

## LV805E Moving Type 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

Sensor	
Shell	
Base	

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

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3   Wiring Diagram

| Wire	Terminal	Group
Red	AC/DC	Power input
Black	12~30V	
Brown	COM1	Activated
Yellow	NO1	
Green	COM	Safety
White	NO/NC	
Orange	TEST+	
Blue	TEST-	
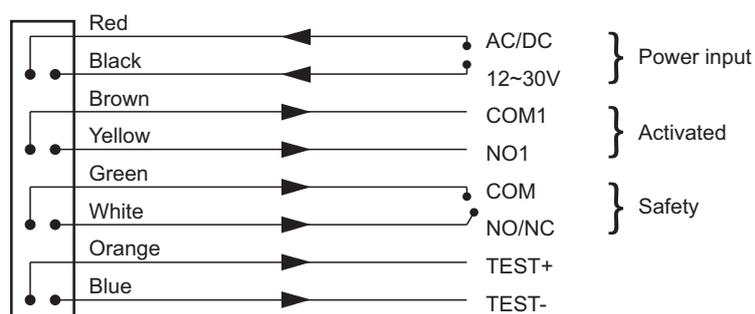
4   Installation

[1]

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

2~5cm

2~5cm
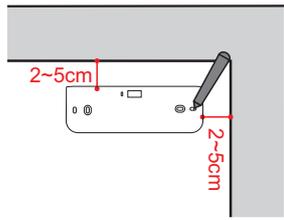
[2]

Drill the mounting holes according to the mark on the door.
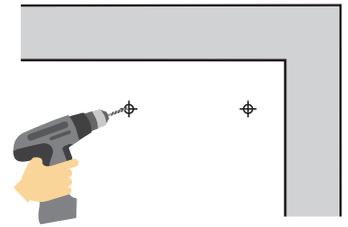
[3]

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.

Fix 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.

⚠ CAUTION   OUTWARD BY THIS SIDE
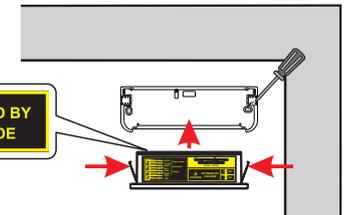
[4]
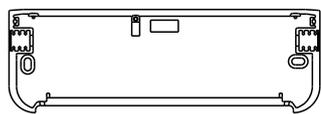
The matching wire pipe is covered on the automatic door machine connection line, and press it into the line slot to fixed.

[5]
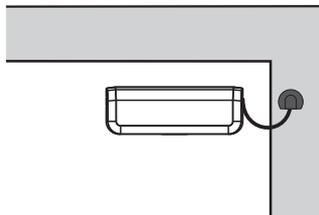
Close the top cover, fixed the line with U-shaped, makes the door won't clip the line when it rotates.

[6]
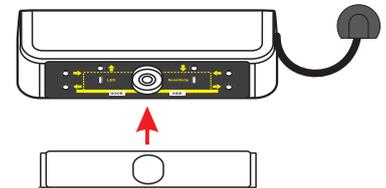
Debugging is completed, close the semi-transparent cover (refer to step 5 to debugging).

## 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 ±20° adjustable, detection range will move as a whole. 2) In the standby state, press the **sensing range adjustment button**, to adjust the activated detection area. 3) Press and hold the sensitivity adjustment button for 3 seconds, blue LED light flashes, and press the **sensing range adjustment button**, to adjust the safety detection area(If no operations within 10 seconds, it will exit safety detection area adjustment.)

▢ Activated detection area   ▨ Safety detection area

±20° adjustable

① ③ ④   ⑥ ⑤ ②

Sensitivity adjustment button

FRONT VIEW

TOP VIEW

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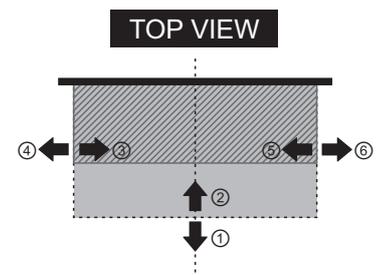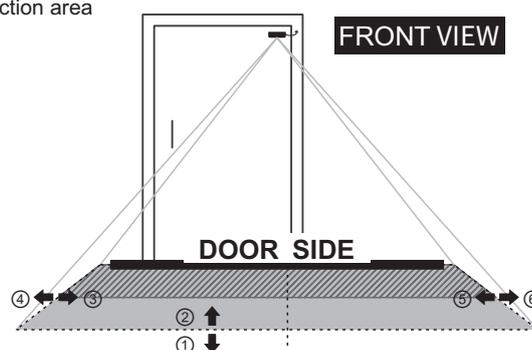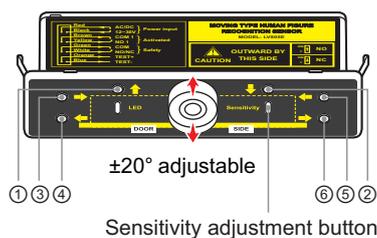
4) Every time you press the sensing range adjustment button, the detection range of the every corresponding edge (as shown in the figure) will move 1 level, total of 10 levels, until the sensor have beep beep sounds, means the detection range has been adjusted to limit, the limiting position of edge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

Factory default detection range

Activated detection area

Safety detection area

TOP VIEW

Installation height=3000mm

≈ 1700mm

≈ 2800mm

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

≈ 2500mm

≈ 2500mm
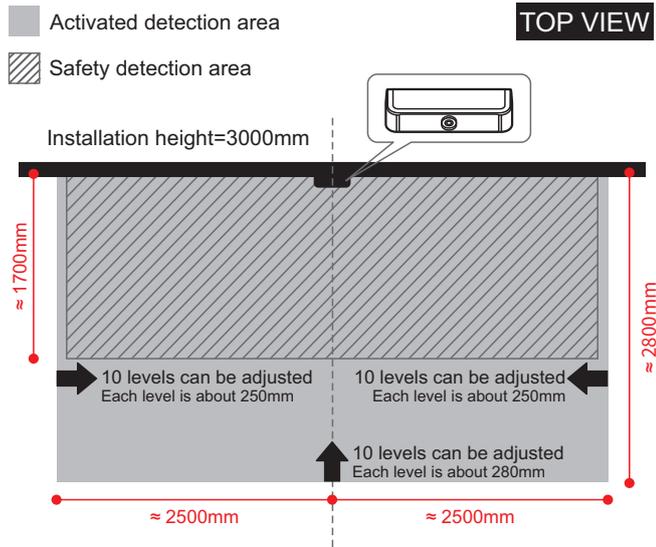
Restore the default detection range

Don't know the current detection range

DOOR   SIDE
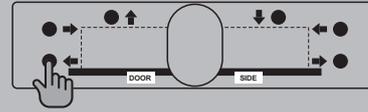
Press and hold
" ◀ " button
for 5 seconds

hear a beep sound

Restore the default

When installed in the left side of door

Installation height=3000mm

▲ Detection range after adjusted

Adjust as needed

Press 7~9 times

DOOR   SIDE

Press 4~6 times
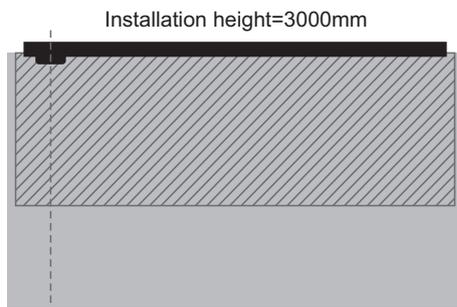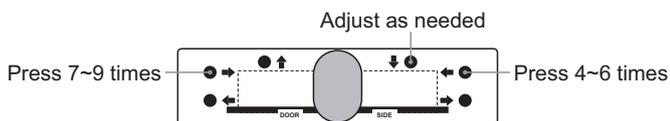
When installed in the right side of door

Installation height=3000mm

▲ Detection range after adjusted

Adjust as needed

Press 4~6 times

DOOR   SIDE

Press 7~9 times
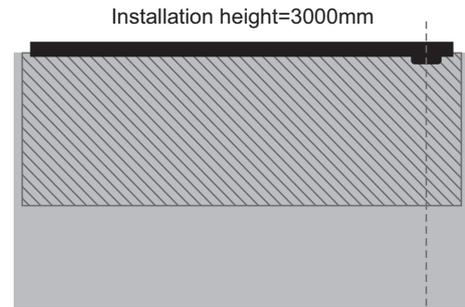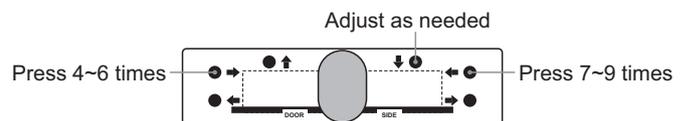
When installed in the double doors

Installation height=3000mm

▲ Detection range after adjusted

Adjust as needed

Press
7~9 times

Press
4~6 times

DOOR   SIDE

Left side

Adjust as needed

Press
4~6 times

Press
7~9 times

DOOR   SIDE

Right side
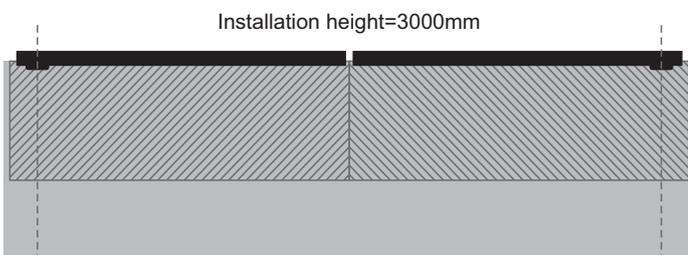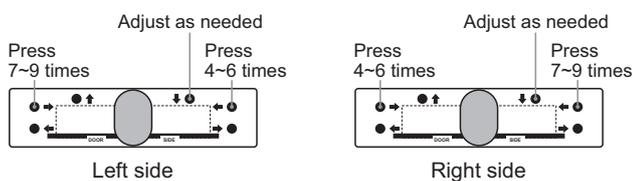
When installed in the center of door

Installation height=3000mm

▲ Detection range after adjusted

Adjust as needed

Adjust as needed

DOOR   SIDE
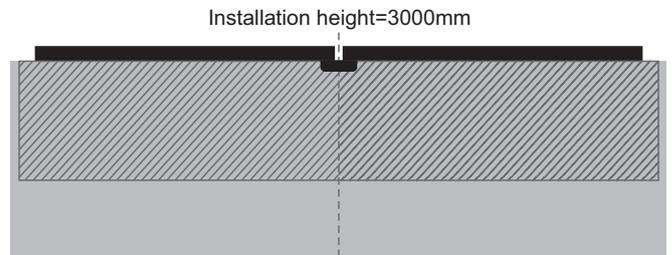
Adjust as needed
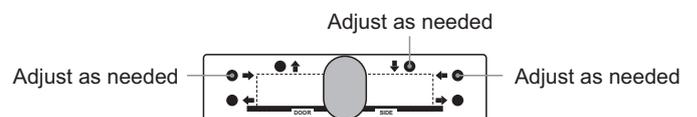
* The above for your reference, please make adjustments under the site conditions.

TEST signal input high/low switch
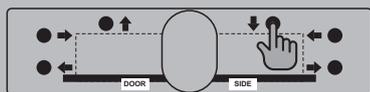
Press and hold " ⬇ " button for 5 seconds	Heard one long beep ➡	**Test signal is switched to high input active** (Factory default high input active)
	Heard continuous short beep ➡	**Test signal is switched to low input active**

> ⚠ **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 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 activated/safety function don't work	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, activated in RED, safety in RED light flashes
Power supply:	AC/DC 12-30V
Standby current:	87mA / night vision 97mA(DC 12V)
Action current:	110mA / night vision 120mA(DC 12V)
Working temperature:	-20°C~60°C
Working humidity:	10%~90%RH
Installation height(max):	5 meters
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	Wire pipe	1	400mm
4	Exposed installation bracket	2	
5	Screws bag	1	
6	Installation instructions	1	