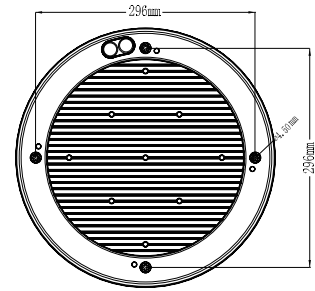
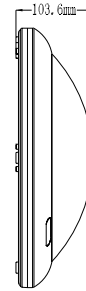
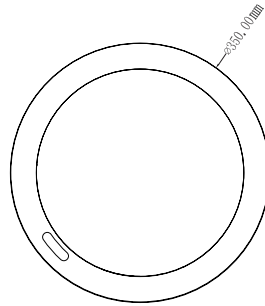




# LX-MV-128LED-D Microwave Sensor Lamp Instruction



## Summary

Packing list in	Quantity
Microwave Sensor Lamp	1X
 Φ6 Plastic Expansion	4X
 3x30 Screw	4X
Instruction	1X

This is a newly designed intelligent ceiling mount Microwave sensor LED lamp, with the extra function of power supply in emergency. The lighting is auto-managed by AC direct power or battery backup, that is, when power failure, the battery backup will be responsible for the power supply of 8 watt. The battery backup can continuously supply power for more than 2 hours or even more in the sensor energy-saving mode. It is widely applied in the corridor, washing room, elevator lobby etc.

This product is designed with two configurations: one is the sensor lamp with the function of supplying power in emergency and the other one is the intelligent sensor lamp without the emergency function. You can make purchase according to the practical need. But in most cases, it is necessary and wise to choose the former one, for that the occasional power outage will cause trouble, or even danger.

## IP 44

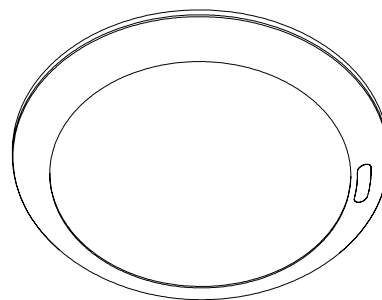
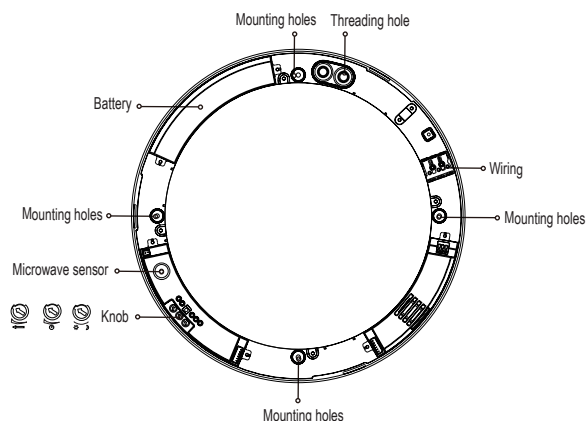


Use high quality PC lampshade. Strengthen the flexible refraction of light. And its function of anti-ultraviolet makes the shade not easy to turn yellow and be broken.



LED lamp consumes power 80% less than incandescent lamp and 50% less than fluorescent lamp.

## Name of each part

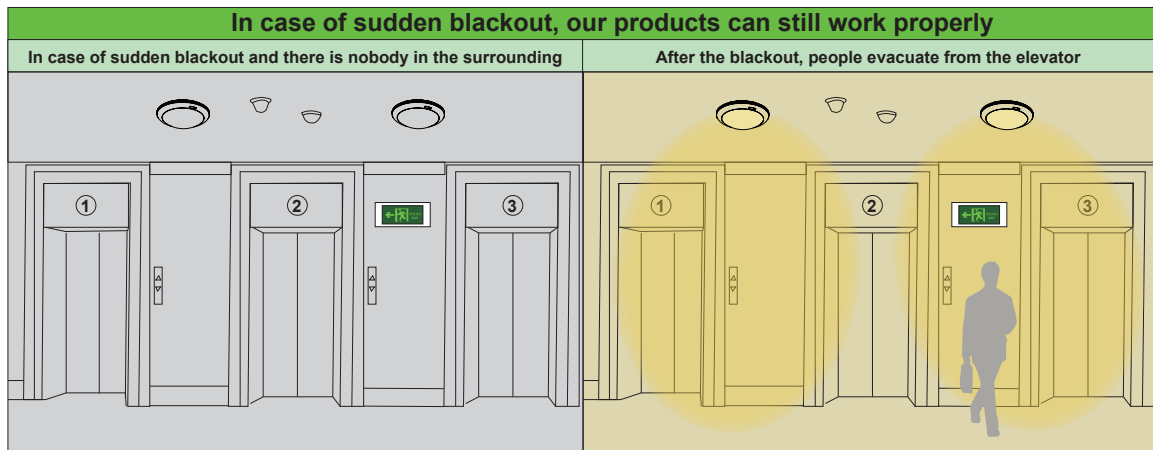


Lampshade

## Specifications

Power source: 100-240V/AC 50/60Hz  
 Rated LED: 28W Max.(AC)  
 8W Max.(DC)  
 Charging Power: 7W Max.(light off)  
 3W Max.(light on)  
 HF system: 5.8GHz  
 Battery: 7.4V / 2000mAh lithium battery  
 Continuous illumination time: ≥120min  
 (when the battery power supply)

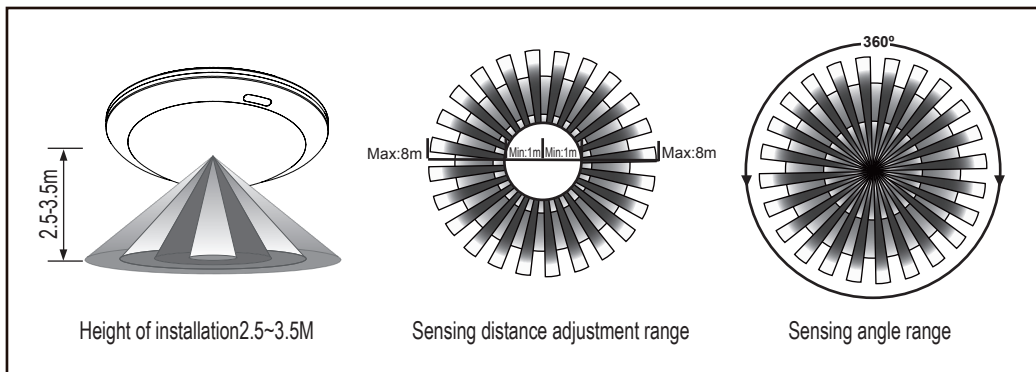
Transmission power: <0.2mW  
 Time setting: 8sec to 12min (adjustable)  
 Detection range: 1-8m (radii.) (adjustable)  
 Light-control: 10-2000LUX(adjustable)  
 Detection angle: 360°  
 Installation height: 2.5-3.5m (ceiling mount)  
 Working Temperature: -20~+55°C  
 LED quantity: 216PCS  
 LED specifications: FM-3528WNS



\* Installed in the elevator, when power fails, it still supports lighting for the trapped.

Fig.1

## Sensor information



## Function

### Indicator Function

- ① ON : lamp keeps working, the indicator flickering;  
OFF: lamp stops working, the indicator off;  
AUTO : sensor enters the auto-detecting mode, the indicator constantly on .
- ② Optical sensor.
- ③ Infrared remote receiver.
- ④ Indicator lights when charging and be off when full charged.
- ⑤ Full battery, the indicator lights.
- ⑥ When connected to the AC power, the indicator lights.

**Fault instruction:** ⑤ indicator constantly on ; ④ indicator flickering, that is, there is no battery or the battery breaks down.

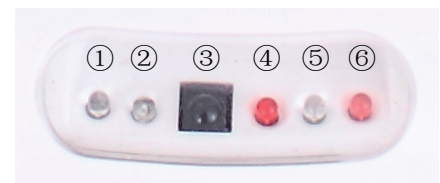


Fig.2

### Setting manner one: potentiometer

It may take times to adjust values before they satisfy your need.

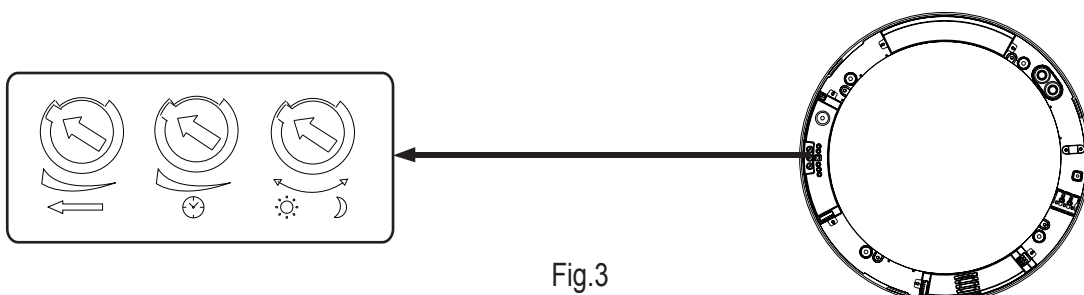


Fig.3

## Detection range setting (sensitivity)



Detection range is the term used to describe the radii of the roughly circle casting on the ground when installed at the height of 2.5 m. To turn the knob fully anti-clockwise is the minimum range (approx. 1m radii), fully clockwise is the maximum (approx. 8m radii).

**NOTE:** the above detection range is gained in the case of a person who is between 1.6m~1.7m tall with middle figure and moves at a speed of 1.0~1.5m/sec. if person's stature, figure and moving speed change, the detection range will also change.

In different cases, the sensitivity of the lights has certain deviation.

**Notice:** when using this product, please adjust the sensitivity (detection range) to an appropriate value but the maximum to avoid the abnormal reaction caused by the easy detection of the wrong motion by the blowing leaves & curtains, small animals or the interference of power grid & electrical equipment. All the above mentioned will lead to the error reaction. When the product does not work normally, please try to lower the sensitivity appropriately, and then test it.

Microwave can be reflected by the metal and the detection range will be multiplied, the sensitivity increased. For those installed inside the steel-structure buildings, you'd better lower the sensitivity to the appropriate. Products should be installed more than 4 meters one from another, otherwise the interference among them will cause error action.

## Time setting

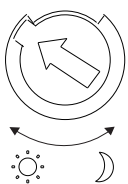


It can be defined from 8 seconds (turn fully anti-clockwise) to 12 minutes (turn fully clockwise). Any movement detected before this time elapses will re-start the timer. It is recommended to select the shortest time for adjusting the detection range and for performing the walk test.

**NOTE:** When the light be auto off, it will take 1 second before the sensor is ready to detect another movement, that is, only signal detected 1 seconds later can the light be auto-on.

It is mainly for the adjustment of the delay time from the moment the signal detected and light auto-on till the light auto-off. You can define the delay time to your practical need. But you'd better lower the delay time for the sake of energy saving, since the microwave sensor has the function of continuous sensing, that is, any movement detected before the delay time elapses will re-start the timer and the light will keep on only if there is human in the detection range. Thus, when performing installation test, we suggest you keep the movement from the detection range to avoid the delay time multiplying.

## Light-control setting



It can be defined in the range of 10-2000 LUX. To turn the knob fully anti-clockwise is about 10 lux, fully clockwise is about 2000 lux. When adjusting the detection zone and performing the walk test in daylight, you should turn the knob fully clockwise.

The LUX knob is used for adjusting the ambient illumination, that is, customers can define the appropriate value to their need.

### Installation location:

1、 There is an optical sensor inside the lamp(as fig.4),during the installation,it should be turned to where the sunshine is sufficient.At the same time,it should avoid other light sources,which will influence the judgement of optical sensor to the ambient illumination.

2、 For different people have different demand on installation location and ambient illumination,the LUX value differs.It will take times to adjust the value to your need.

**NOTE:** Turn the optical sensor to where the sunshine is sufficient(as fig.5).

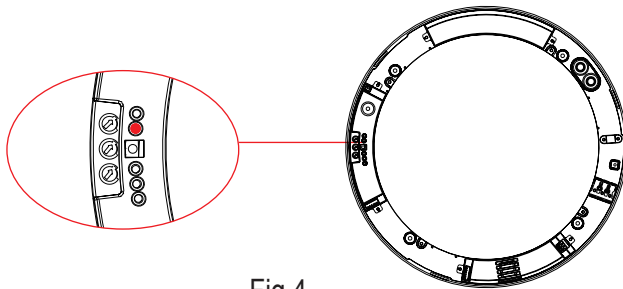


Fig.4

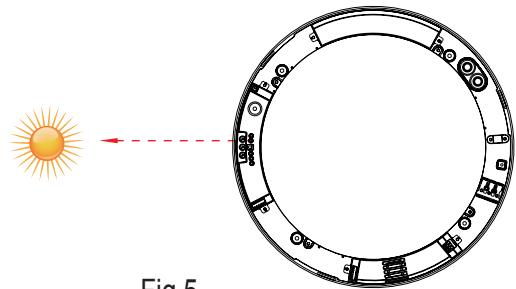


Fig.5

**Note:** Please don't adjust the three functional buttons to excess. That is because the three functional buttons were connected to the components directly, there is a small stopper in each of the three components, when you adjust the buttons from start to end, the excessive turn will damage the stopper, and lead to the 360°non-stop turn around. The adjust range limit is 270°, please do pay attention to this.

### Setting manner two:Remote control

ON: press ON, the load connected will keep working for 6 hours and then automatically turn to AUTO mode.

OFF: press OFF, the load connected will be off for 6 hours and then automatically turn to AUTO mode.

AUTO: press AUTO, sensor enters the auto-detecting mode, that is, when signal detected and the ambient light intensity is lower than the preset value, the load works.

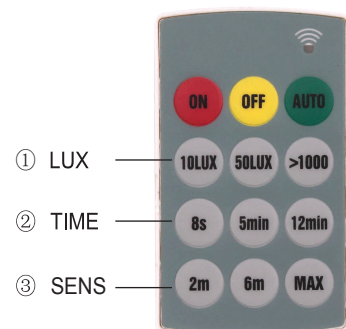


Fig.6

**Friendly reminder:** there are two manners to define its function and the last definition will be effective and still be valid even if the sensor restarts.

### Procedure of installation



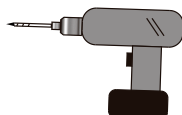
### Warning!

1. Please keep it away from the children when installation.
2. Please avoid to be installed where the temperature or humidity is high.
3. Please cut off the power before installation.

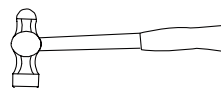
**Note:**Please bring the following tools.



Pencil



Electric drill

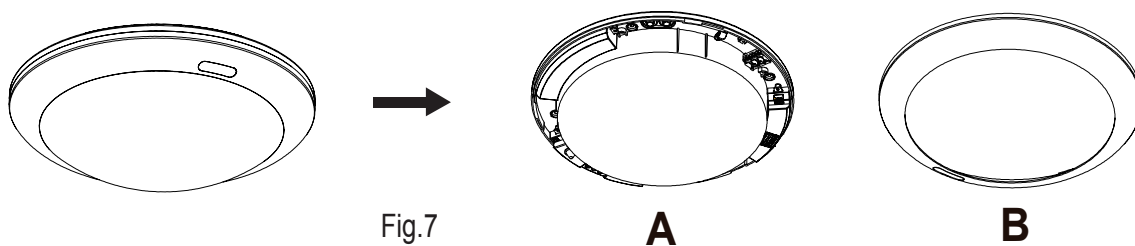


Hammer

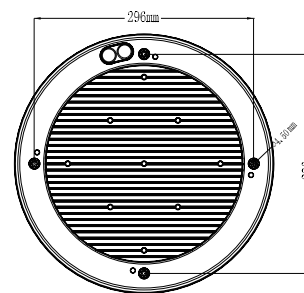
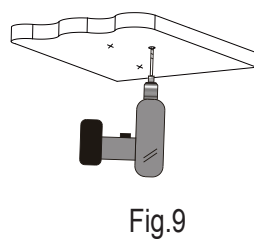
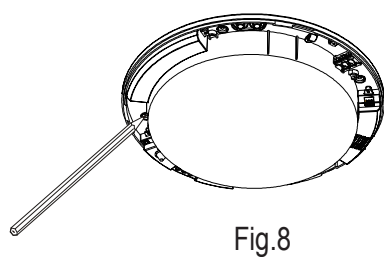


Screwdriver

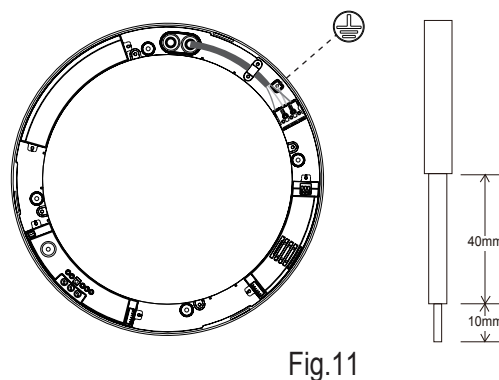
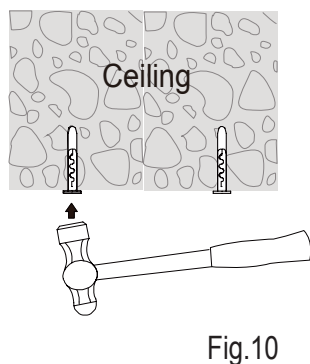
- Step1 Separate the lamp into two parts:A and B.



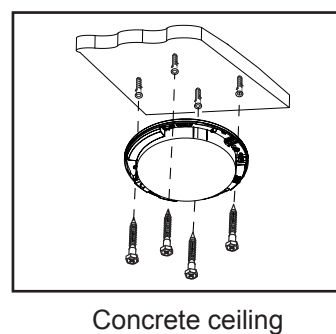
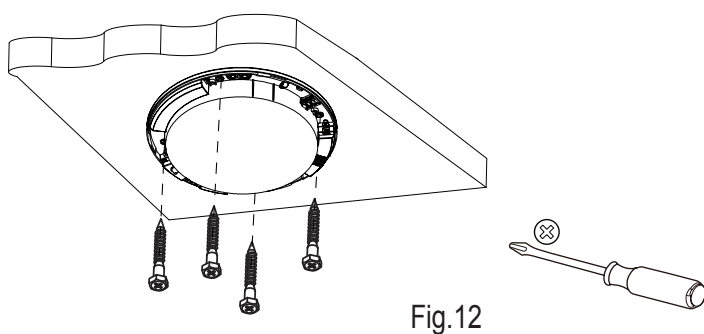
- Step2 Turn the knobs to the ideal conditions  
(Please define the settings as per the above FUNCTION part mentioned.).
- Step3 Put the base of the product on the ceiling to make the drilling mark (as Fig.8)
- Step4 Install the product on the place where you marked (as Fig.9)  
Products should be installed more than 4 meters one from the other,  
otherwise the interference among them will cause error action.



- Step5 Knock the plastic expansion screw into the hole which you drill (as Fig.10)
- Step6 Put the power line through the line hole to connect on the wiring (as Fig.11)



- Step7 Fix the base of the product on the selected place with the screws (as Fig.12)



- Step8 Rotate the lampshade clockwise into the base.Installation finished. (as Fig.13)

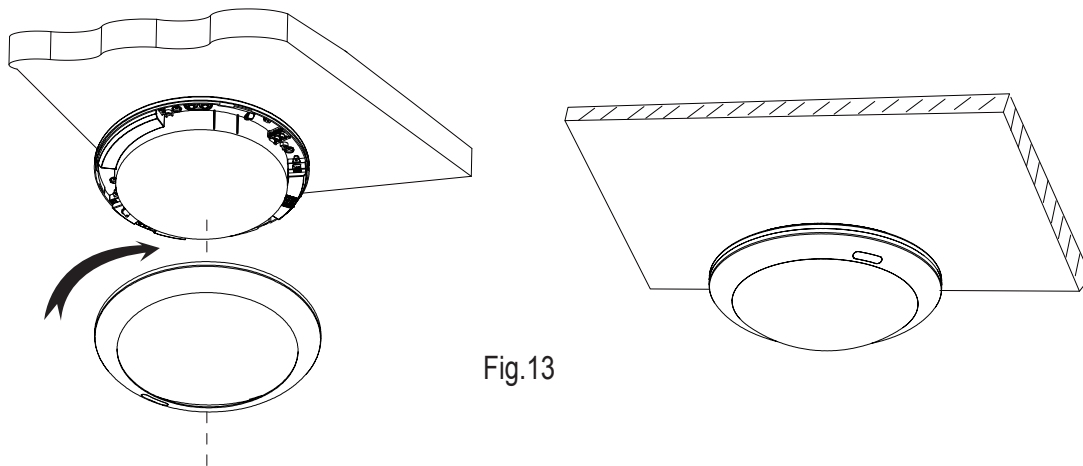
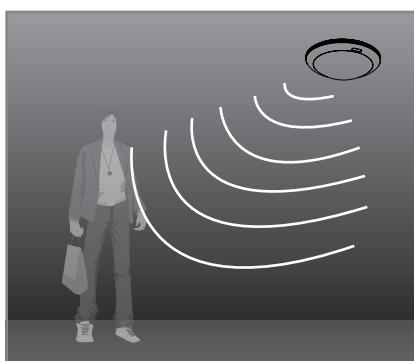
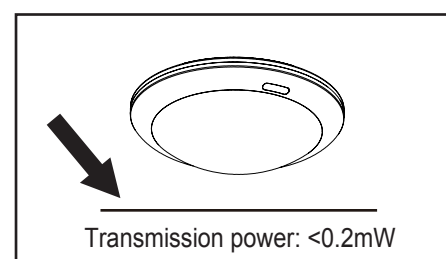


Fig.13

## Fault and the solution

Fault	Failure cause	Solution
The load fails to work.	Light-illumination is set incorrectly.	Adjust the setting of the load.
	The load is broken.	Change the load.
	The power is off.	Turn the power on.
The load works all the time.	There is a continuous signal in the region of the detection.	Check the settings of the detection area.
The load works when there is no motion signal detected.	The lamp isn't installed well so that sensor fails to detect reliable signals.	Re-adjust the installation place.
	Moving signal is detected by the sensor (movement behind the wall, the movement of small objects, etc.)	Check the settings of the detection area.
The load fails to work when there is motion signal detected.	The motion speed is too fast or the defined detection area is too small.	Check the settings of the detection area.

**Note:** the high-frequency output of this sensor is  $<0.2\text{mW}$ - that is just one 5000<sup>th</sup> of the transmission power of a mobile phone or the output of a microwave oven.



Induction of human movement



Since entering lighting condition



Application



## **Warning!**

1. The LEDs in series can function when all the seals are installed in place.
2. Please don't remove or connect with other lamp when powered on.
3. When the LEDs in series are damaged, you need an experienced technician to repair using the same rating LEDs.

- Please confirm with professional installation.
- Please cut off power supply before installation and removal operations.
- Make sure that you have cut off the power for safety purposes.
- Improper operation caused losses, the manufacturer does not undertake any responsibility.

We are committed to promoting the product quality and reliability, however, all the electronic components have certain probabilities to become ineffective, which will cause some troubles. When designing, we have paid attention to redundant designs and adopted safety quotas to avoid any troubles.

This instruction, without our permission, should not be copied for any other purposes.