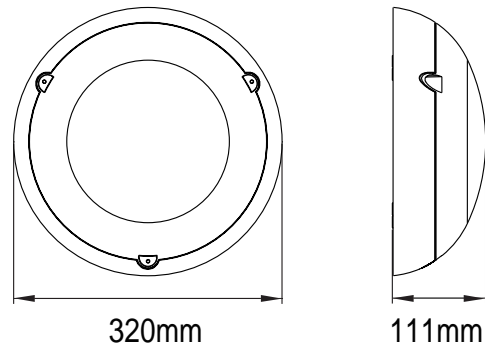


LX-LD-105P-A Microwave Sensor Lamp Instruction



Summary

This is a microwave sensor switches controlled LED lights, the microwave sensor was built into the lamp, it has 96pcs high brightness LEDs inside, with total power of 15 watts. When light on, the luminous flux will be more than 800 lm, equivalent to twice that of 60 watt incandescent lamp ($\approx 400\text{lm}$). The microwave sensor switch is a new type automatic switch that comes after voice switch, and infrared sensor switch. The detection way has the below advantages compared with other as follows: 1. non-contact detection, 2. Suitable for bad environment, immune to temperature, humidity, noise, air, dust, light... 3. RF interference ability, 4. Transmission power only 0.2 mW, It will not harm the human body. Simple installation+ easy wiring.

We adopt this sensitive advanced sensor switches in lighting control, enabling the light to turn on automatically when one comes, automatically turn off when one goes out. In addition to the widely usage in the aisle stairs, living room and bedrooms, it also can be installed in the bathroom.

The built-in microwave sensor switch can penetrate plastic, glass, wood. So it can be installed in glass or plastic shell lamp. This allows the application of microwave sensor switch in different styles of lights for energy control. Now, we can provide a variety of microwave sensor LED lamps to meet the needs of different people with different preferences.

Packing list in	Quantity
Ceiling Mount Lamp LEDs 96PCS	1X
$\phi 6$ Plastic expansion	4X
4x30 Screw	4X
4x12 Y type Stainless Screw	3X
Instruction	1X

IP 54

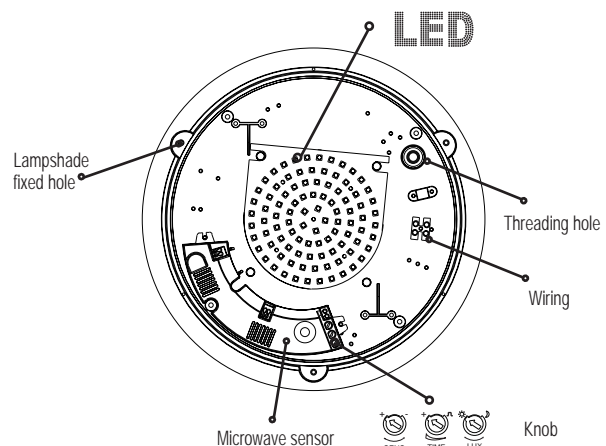
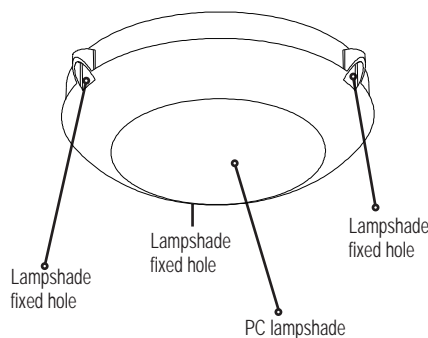


Use high quality PC lampshade. Strengthen the flexible refraction of light. And its function of anti-ultraviolet makes the shade not easy to turn yellow and be broken.



LED lamps than incandescent bulbs
provision electricity 80%; fluorescent
lamps provision electricity than 50%

Name of each part



Specifications

Power source: 220-240V/AC

Power frequency: 50Hz

Rated load: 15W Max.

HF system: 5.8GHz CW electric wave, ISM wave band

Transmission power: $<0.2\text{mW}$

Time setting: 6sec to 12min (adjustable)

Detection range: 1-10m (radial) (adjustable)

Light-control: 10-2000LUX (adjustable)

Standby power: $<0.9\text{W}$

Detection angle: 360°

Luminous flux: 850lm

Installation height: 2.5-3.5m (ceiling mount)

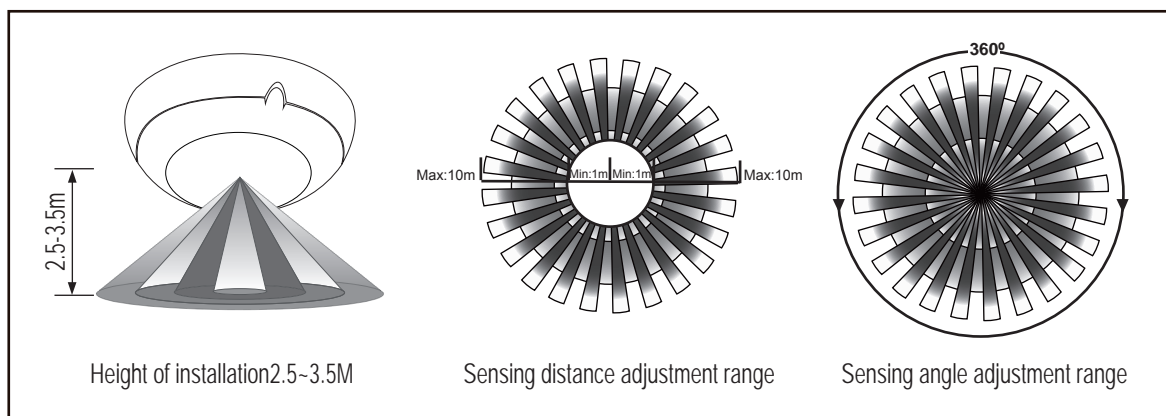
Weight: about 1.24kg

Lamp part

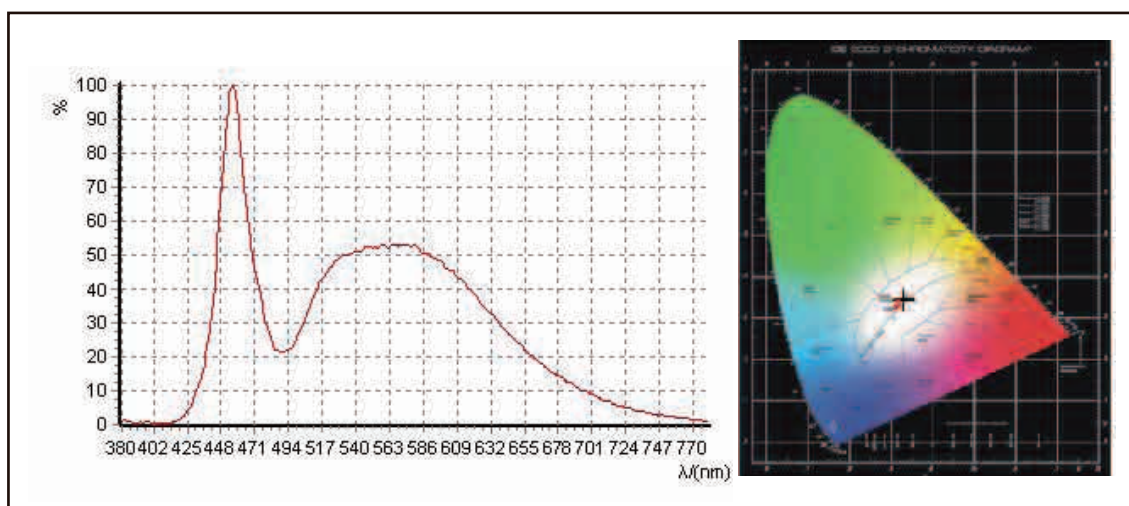
LED quantity: 96PCS

LED specifications: T5050

Sensor information



Spectrogram



Procedure of installation



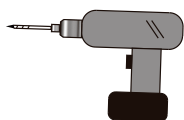
Warning!

1. Please keep it away from the children.
2. Please avoid fire/high temperature/damp places for installation.
3. Please confirm when shut off the power cord access.

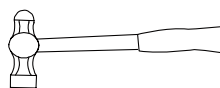
Note: Please bring the following tools



Pencil



Electric drill



Hammer



Screwdriver

- Step1 Turn off the screw to take down the lampshade (as follow: the product should be separated into two parts as A and B)

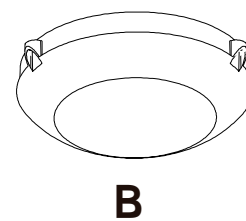
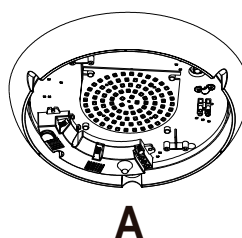
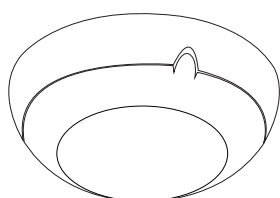


Fig.1

- Step2 Turn the knobs to the ideal conditions (as Fig.2)

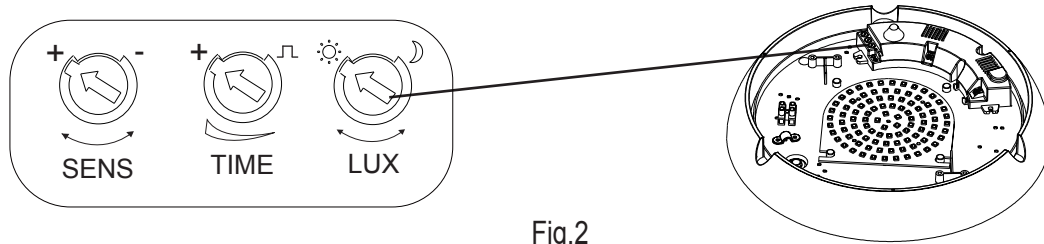
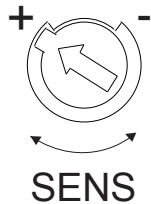


Fig.2

Detection range setting (sensitivity)



Detection range is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 2.5m, turn the detection range control fully anti-clockwise to select minimum detection range(approx.1m radii), and fully clockwise to select maximum detection range(approx. 10m radii).

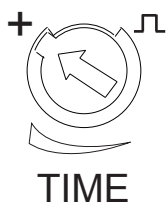
NOTE: the above detection range is gained in the case of a person who is between 1.6m~1.7m tall with middle figure and moves at a speed of 1.0~1.5m/sec. if person's stature, figure and moving speed change, the detection range will also change.

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

ATTENTION: When use this product, please adjust the sensitivity to an appropriate position you need, please do not adjust the sensitivity to maximum, to avoid the product does not work normally caused by wrong motion. Because the sensitivity is too high easily detect the wrong motion by wind blowing leaves & curtains, small animals, and the wrong motion by interference of power grid & electrical equipment. All those lead the product does not work normally !

When the product does not work normally, please try to lower the sensitivity appropriately, and then test it.

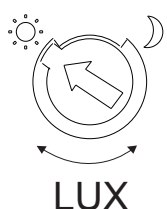
Time setting



The light can be set to stay ON for any period of time between approx. 6sec(turn fully anti-clockwise) and a maximum of 12min(turn fully clockwise). Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test.

NOTE: After the light switches OFF, it takes approx. 1sec before it is able to start detecting movement again. The light will only switch on in response to movement once this period has elapsed.

Light-control setting



The chosen light response threshold can be infinitely from approx. 10-2000lux. Turn it fully anti-clockwise to select dusk- to-dawn operation at about 10 lux. Turn it fully clockwise to select daylight operation at about 2000lux. The knob must be turned fully clockwise when adjusting the detection zone and performing the walk test in daylight.

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.

- Step3 Put the base of the product on the ceiling to make the drilling mark (as Fig.3)
- Step4 Install the product on the place where you marked (as Fig.4)

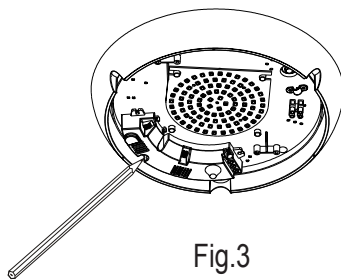


Fig.3

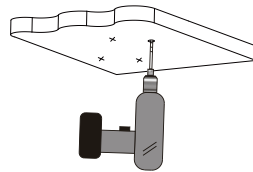
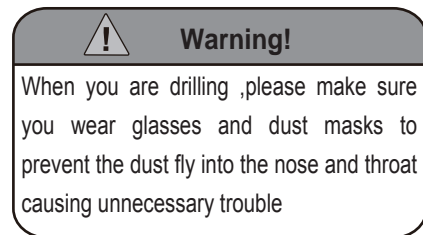


Fig.4



- Step5 Knock the plastic expansion screw into the hole which you drill (as Fig.5)
- Step6 Put the power line through the line hole to connect on the wiring (as Fig.6)

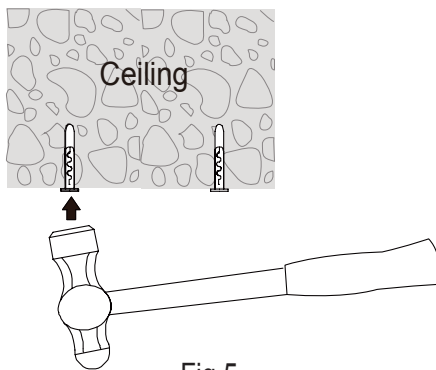


Fig.5

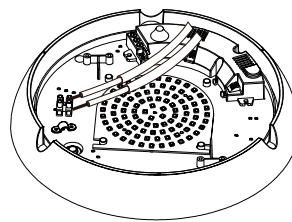
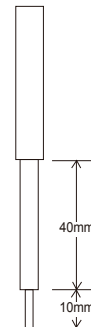


Fig.6



- Step7 Fix the base of the product on the selected place with the screws (as Fig.7)

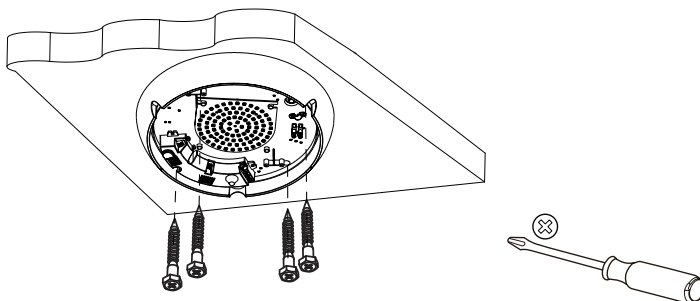
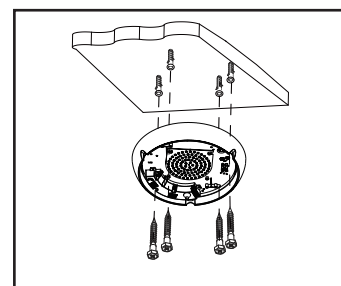


Fig.7



Concrete ceiling

- Step8 Fix the PC lampshade on the base with the screws (as Fig.8)

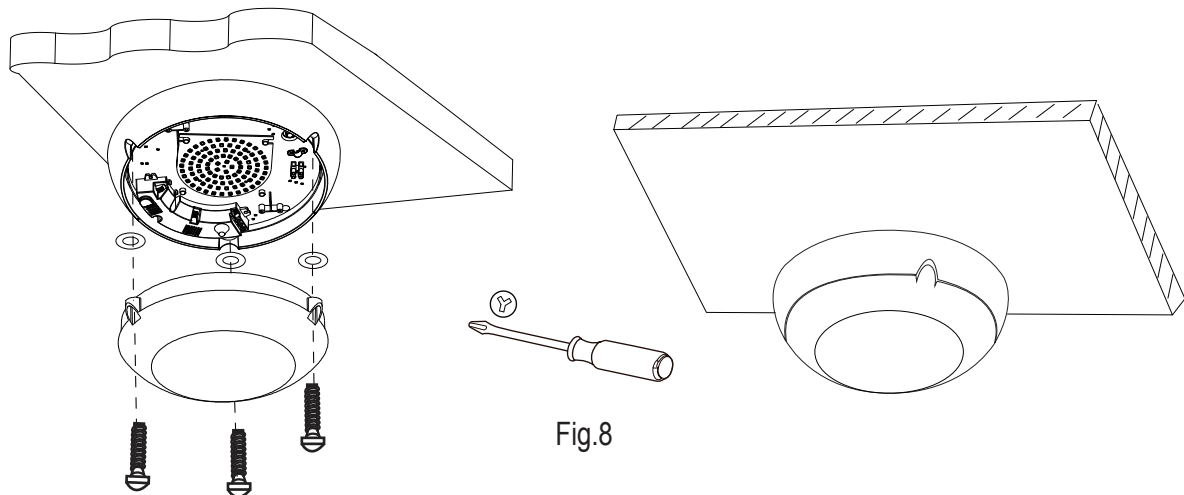
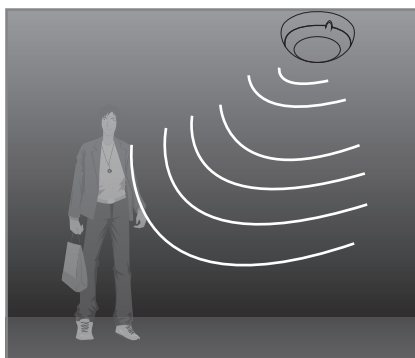
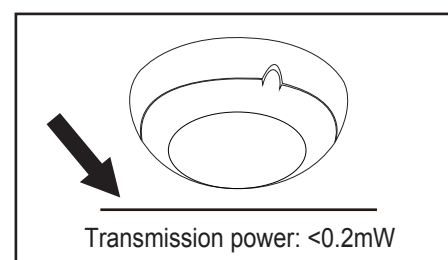


Fig.8

Fault and the solution

Fault	Failure cause	Solution
Does not work with the load	Light-illumination set incorrectly, the load is broken	Adjust the setting of the load
	The power is off	Change the load
	There is a continuous signal in the region of the detection	Turn the power on
Work all the time with the load	The sensor have not been installed correctly	Check the settings of the detection area
When there is no a moving signal work with the load	Sensors failed to pack good cause its cannot reliably detect signal	Re-install the outer covering
	Moving signal is detected by the sensor (movement behind the wall, the movement of small objects, etc.)	Check the settings of the detection area
When there is a moving signal work with the load	The moving body is too fast or the 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 5000th 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 serial can function when all the seals installed in place.
- 2.Please don't remove or connect with other lamp when powered on.
- 3.When the LEDS in serial are damaged ,you need experienced technician to repair using the same rating LEDS.

The screws used on the light case are common ones when sent out from the factory.The specific Y type stainless screws in the plastic bag for screws are used for fixing the lampshade after the technician has finished the installation.It is for protecting against the electric shock.

The detection distance may multiply for the reflection on microwave electromagnetic field by the metal or glass materials. Thus, lower the sensitivity to reach the appropriate detection distance. Never turn the SENS knob to the maximum value to avoid error detection. Also the surrounding environment will lead to error action, e.g. the automobiles passing by or the wandering objects caused by the wind. Products should be installed more than 4 meters one from the other, otherwise the interference among them will cause error action.

The proper use of trimming potentiometer: the trimming potentiometer is used to adjust the time that sensor light turn on when detects somebody movement and turn off automatically.The user can adjust the light time according to different needs. In order to carry out the saving-energy effectively,we suggest that we should decrease the close time automatically.In addition, due to the continuous sensor function of the microwave sensor lamp,simply speaking:Timer will time renewedly so as sensor lamp has any induction. Lamp will keep open once detected movement within the detection range .

- 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 quota to avoid any troubles.

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