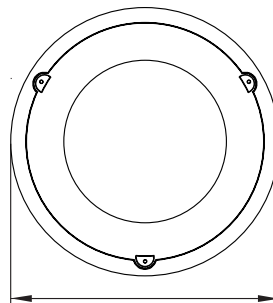


PD-LED2003-G Microwave Sensor Lamp Instruction



IP 54



320mm



111mm

Summary

This is a microwave sensor switches controlled LED lights.,the microwave sensor was built into the lamp ,it has 98pcs high brightness LEDs inside ,with total power of 16 watts. When light on, the luminous flux will be more than 1000 lm, equivalent to twice that of 60 watt incandescent lamp(≈400lm).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 0.3 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
Microwave Sensor Lamp LEDs 98PCS	1X
$\Phi 6$ Plastic expansion	4X
4x30 Screw	4X
Instruction	1X
4x12 Y type Stainless Screw	3X

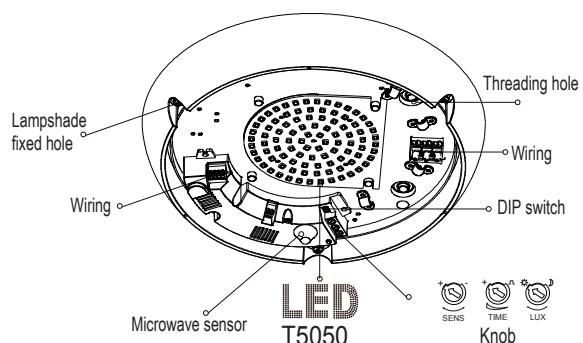
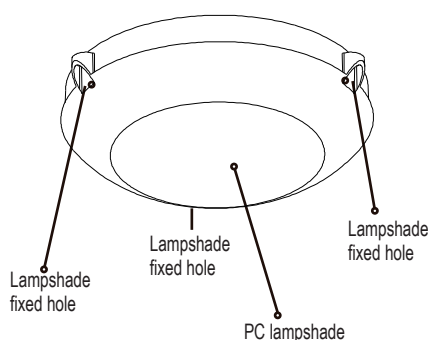


Use high quality PC lampshade.Strengthen the flexible refraction of light.And its function of anti-ultraviolet makes the shade not easy to turn yellow and be broken.



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

Name of each part



Specifications

Power source: 100-240V/AC

Power frequency: 50/60Hz

Rated load: 16W Max.(230V/AC 50Hz)

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

Transmission power: <0.3mW

Time setting: 14sec (S2=OFF) to 12min (S1=ON) (adjustable)

14sec (S2=OFF) to 30min (S1=OFF) (adjustable)

20sec (S2=ON) to 12min (S1=ON) (adjustable)

20sec (S2=ON) to 30min (S1=OFF) (adjustable)

Detection range: 1-10m (radii.) (adjustable)

Light-control: <10 - >2000LUX (adjustable)

Standby power: <0.9W

Detection angle: 360°

Luminous flux: 1030lm

Installation height: 2.5-3.5m (ceiling mount)

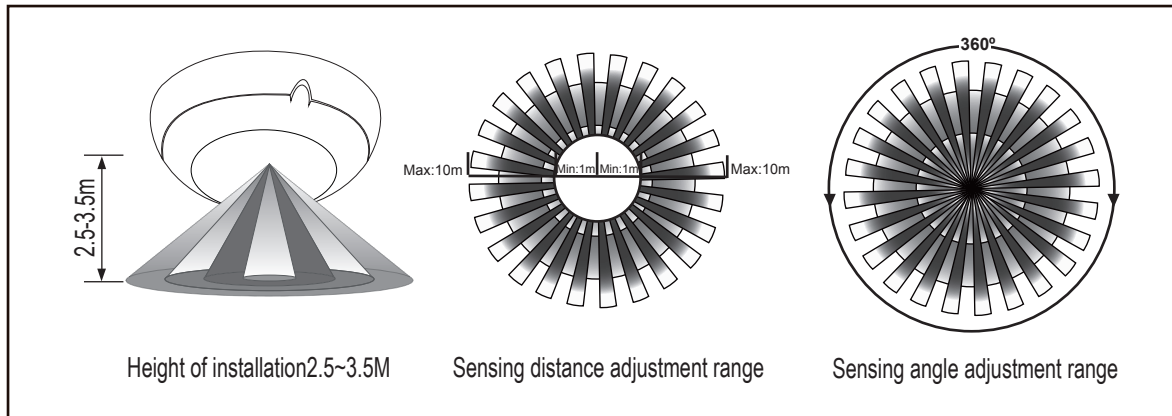
Weight: about 1.24 kg

Lamp part

LED quantity:98PCS

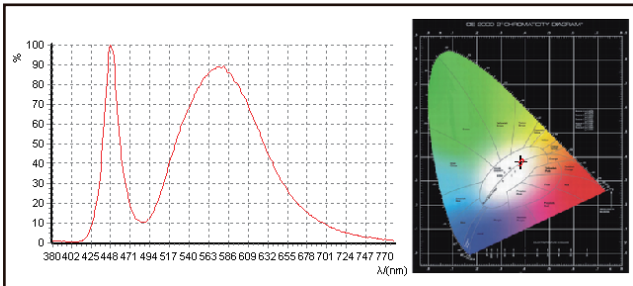
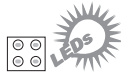
LED specifications:T5050

Sensor information

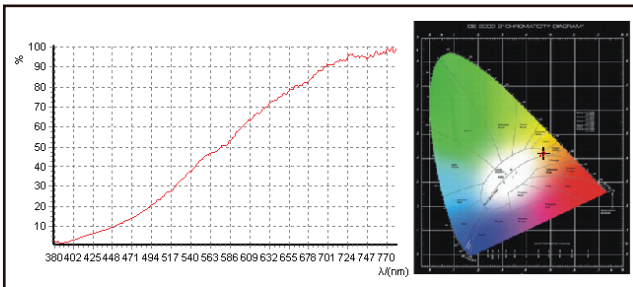


Spectrogram

PD-LED2003-G 1030lm



60 watt incandescent lamp(≈400lm)



When light on, the luminous flux will be more than 770 lm, equivalent to twice that of 60 watt incandescent lamp(≈400lm).

Procedure of installation



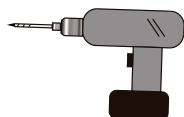
Warning!

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.

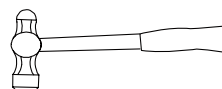
Note:Please bring the following tools



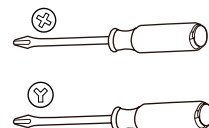
Pencil



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)

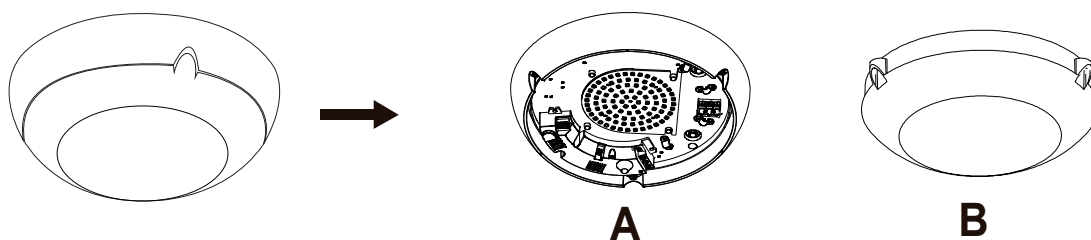


Fig.1

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

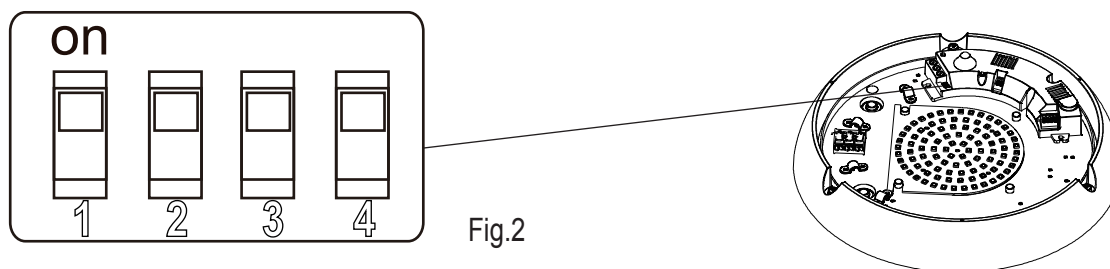


Fig.2

The circuit has four bit code switch, can choose the following.

S1	The maximum delay time
on	12min
1	30min

S2	Slowly on and slowly off fuction
on	ON
2	OFF

S3	10% brightness mode
on	ON
3	OFF

S4	Normally on
on	ON
4	OFF

When the ambient brightness is less than about 100LUX (cold light source), the device triggers the light, if no detection after the preset delay time, the light will enter the 10% brightness state and keeps this situation until there is detection in the half way, and then the light will get brighter.

You can pre-set Constantly ON mode(effective only when power on),that is,it is the mains switch that controls the light to be on or off. If you turn on or turn off the switch in short time,it will work as the common lightings.If you turn on the switch for long time,the light will be constantly on about 6 hours and then enter the sensing state.To turn off the switch and then turn on,you can restart the Constantly ON mode.

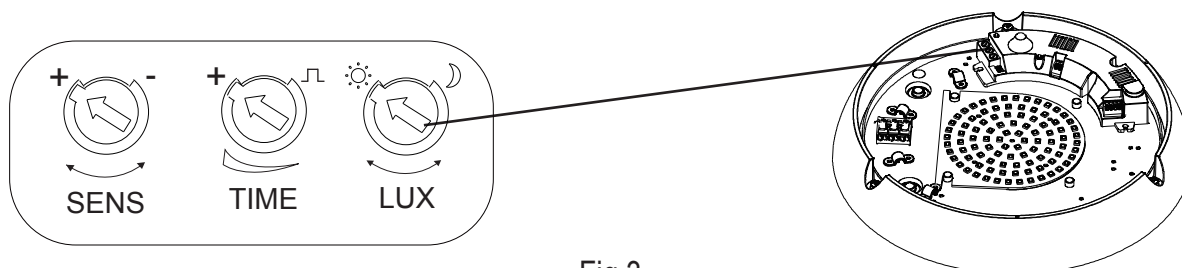
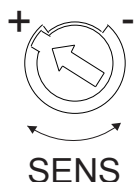


Fig.3

(1)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 reach control fully anticlockwise to select minimum reach (approx.1m radii), and fully clockwise to select maximum reach (approx. 10m radii).

NOTE: the above detection distance 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 distance will also change.

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

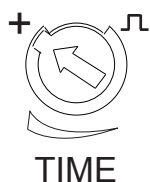
Notice: when using this product, please adjust the sensitivity (detection range) to an appropriate value but the maximum to avoid the abnormal reaction caused by the easy detection of the wrong motion by the blowing leaves & curtains, small animals or the interference of power grid & electrical equipment. 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.

Solutions of prevent the power network pulse interference the products:

Due to the difference of regional interference power network, the pulse of interference is uncertain, so the user are not suggested to adjust the sensitive to the maximum when using. **Suggestion:** Please install and adjust the sensitive in the appropriate distance using, do not set the maximum sensitivity to prevent misoperation.

Friendly reminder: when installing two or more microwaves together, you are required to keep 4 meters one from another, otherwise the interference among them will lead to error reaction.

(2)Time setting

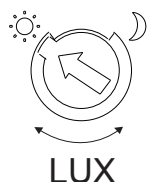


The light can be set to stay ON for any period of time between approx. 14sec(20sec)(turn fully anticlockwise) and a maximum of 12 min (30 min)(turn fully clockwise). Turn the dial switch 2 to "ON", the minimum delay time is 20 seconds; turn it to "2", the minimum delay time is 14 seconds. Turn the dial switch 1 to "ON", the maximum delay time is 12 minutes; turn it to "1", the maximum delay time is 30 minutes. 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.

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.

(3)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.4)
- Step4 Install the product on the place where you marked (as Fig.5)

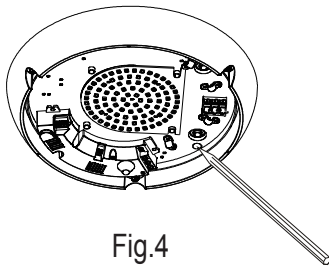


Fig.4

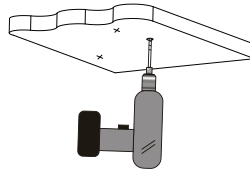
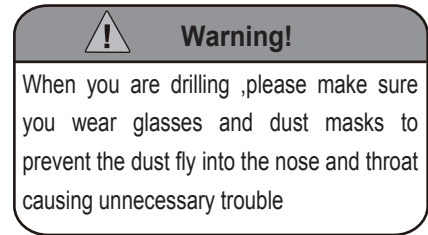
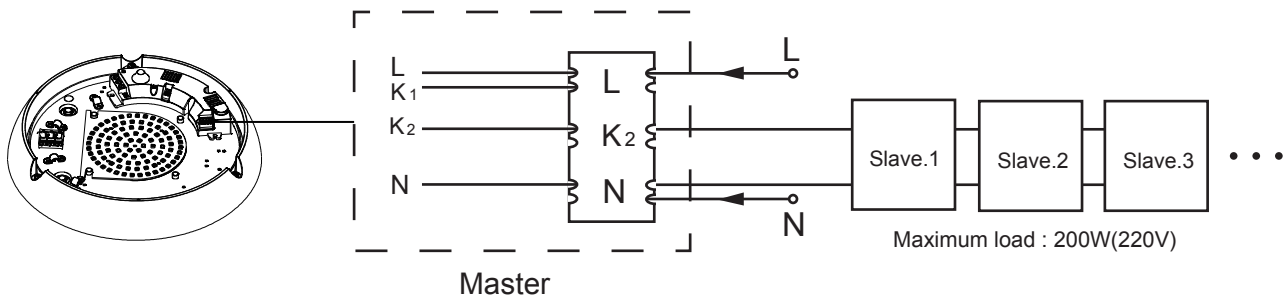


Fig.5



- Step5 Knock the plastic expansion screw into the hole which you drill (as Fig.6)
- Step6 Put the power line through the line hole to connect on the wiring (as Fig.7)

Connection-wire diagram



K1 and K2 is equivalent to one switch, electricity from L to K1, then output from K2. Connect to load, the other end of N. Maximum load it's 200W(220V)

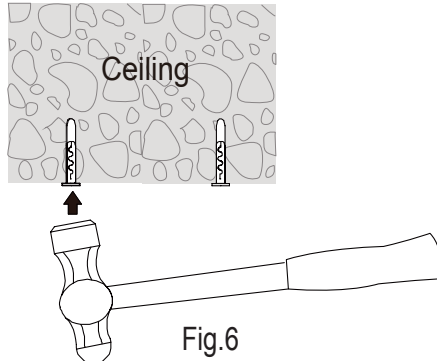


Fig.6

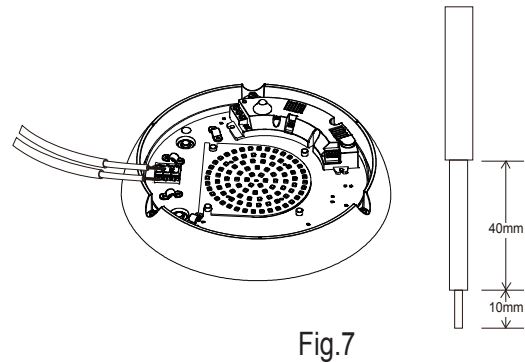


Fig.7

- Step7 Fix the base of the product on the selected place with the screws (as Fig.8)

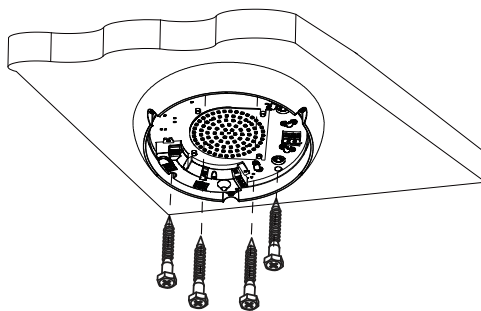
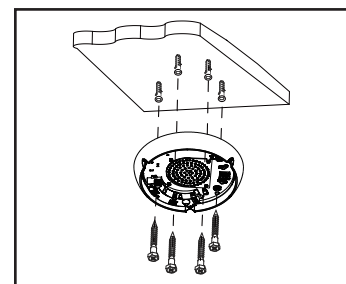
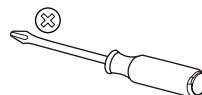


Fig.8



Concrete ceiling

- Step8 Fix the PC lampshade on the base with the screws (as Fig.9)

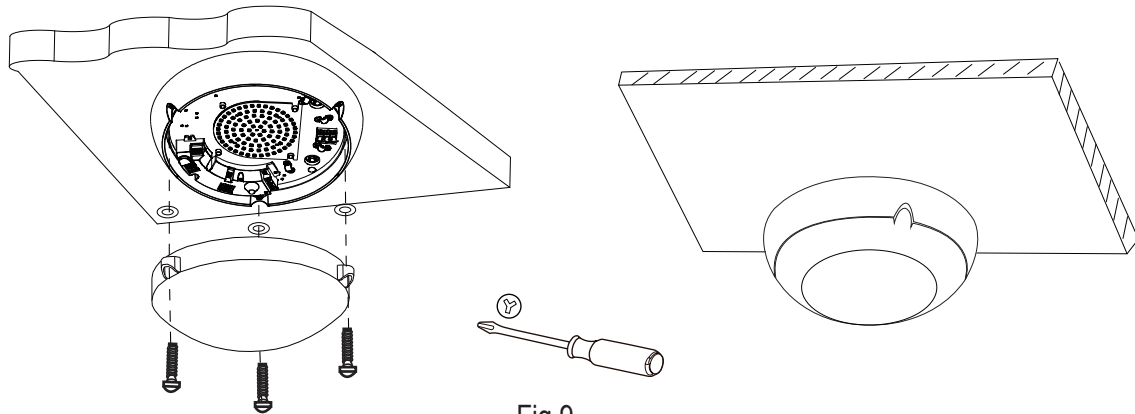
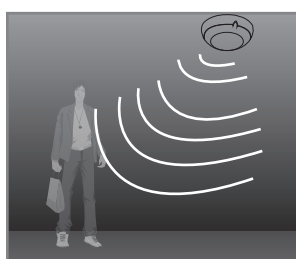
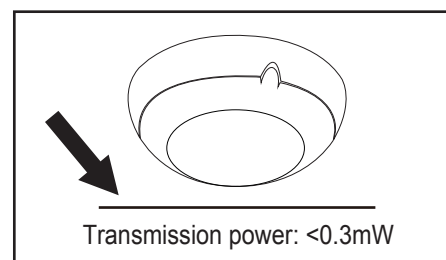


Fig.9

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 $<0.3\text{mW}$ - that is just one 3300th 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.

- Please confirm with profession installation.
- For safety purposes, please cut off power before installation and removal operations.
- 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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