LXDT-V01 Microwave Sensor Lamp Holder User Manual

66.5mm

95.3mm

Product Introduction

The product gathering intelligent & multifunction and can detect all-around,energy consumption is lower than 0.5w.In the middle of lamp holder built in 8 pcs high brightness LED. At night when the ambient light is less than 20lux ,built-in 8pcs LED Light will be works.When someone pass by ,the light on the holder will be trigger.(Such as Incandescent lamp,energy-saving lamp and LED Lamp) This product has multiple patents,product design is unique in the world. The product adopt full range of microwave sensor as body movement detection,will not influenced by environmental temperature,can works under -15℃ to 70℃ , at the same time the detect range will not be affected. When the temperature exceed 28 ℃,the sensitivity of the detection of conventional infrared sensors will be greatly reduced.Our product is well solution to the problem,small in size and intelligent & multifunction design is the ideal choice for different application.

Induction Function

1.This product inner setting 5.8GHz high frequency Microwave detector ,through the detection of the human body signal to determine whether the lamp need to work or not ,and control the load lamp bright、 destroy automatically.

2.When somebody enters the detection rang ,trigger the sensor and the product work,the load lamp bright; when somebody leave the detection rang ,it will destroy once meet the time-delay.

3.Trigger the sensor light, when meet the time-delay the lamp closed, if there is sensor signal continuity,automatic time stack ,load lamp will last bright.

4.Automatic identification of the external light value ,energy saving .For the details please see below " Light Control Working Principle".

Night Light Function: when the ambient light is less than 20lux ,the built-in 8pcs LED lamp will be works!
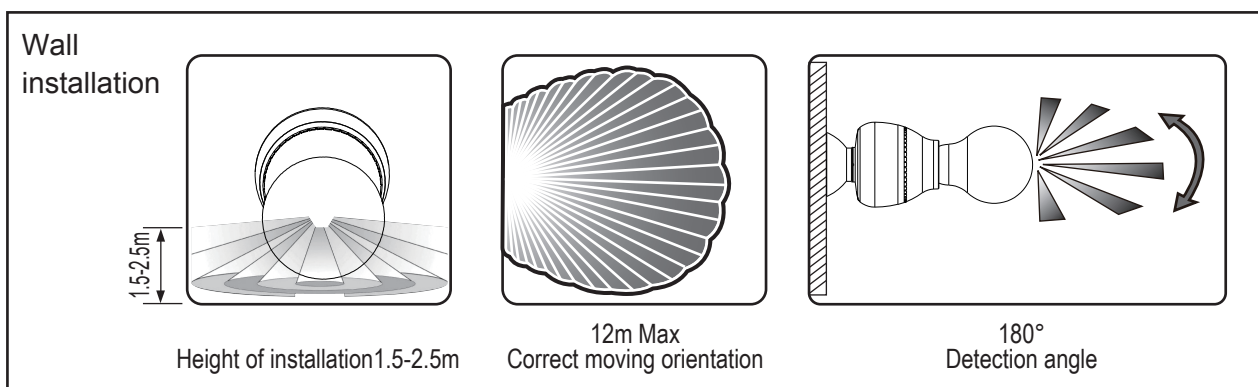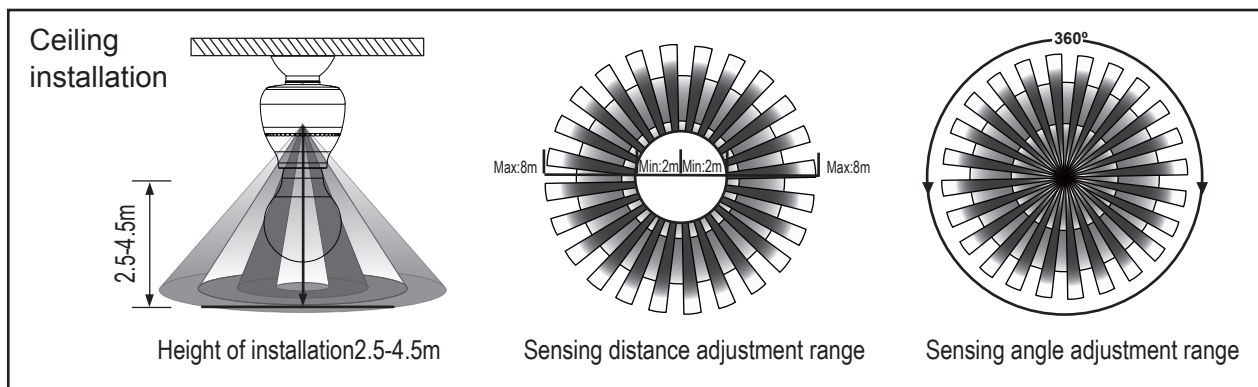
Product Feature

1.Detect automatically the body motion signals.
2.Anti - radio frequency ability.
3.Discriminate automatically outside light control value.
4.Can adjust the sensing distance and time delay.
5.Can install the various lamps of E27 specifications.
6.Can be used for wall installation, ceiling installation.

Specifications

Power source: 90-230VAC
Power frequency: 50/60Hz
Transmission power: 3.54dBm
Rated load: 60W Max. (any load)
LED Rated load: 1W
LED quantity: 8PCS(2835)
HF system: 5.8GHz CW electric wave,ISM band
Detection angle: 360°
Detection range: 2m-4m-6m-8m (radii.) (adjustable)
Time setting: 5sec-1min-3min-8min, (adjustable)

Light-control:20LUX(Light control in,LED keep on,product can be detected)
50LUX(Light control out,LED keep off, product can not be detected)
Power consumption: <0.5W
Protection level: IP20
Installation: ceiling mounting, wall mounting
Working temperature: -15°C~+70°C
Lamp socket type: E27(Standard)

Sensor information

Ceiling installation

2.5-4.5m

Height of installation2.5-4.5m

Max:8m Min:2m Min:2m Max:8m

Sensing distance adjustment range

360º

Sensing angle adjustment range

Wall installation

1.5-2.5m

Height of installation1.5-2.5m
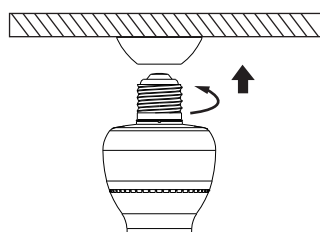
12m Max
Correct moving orientation

180°
Detection angle

Load type

E27 lamp holder is conform to all kinds of E27 specifications,the load type is Energy-Saving Lights、Incandescent Lights、LED Lights.

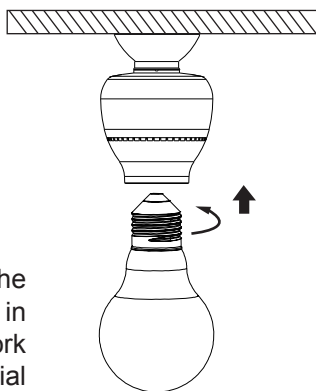CFL Energy-Saving Lights
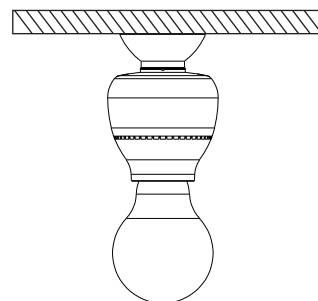
Incandescent Lights

LED | LED Lights
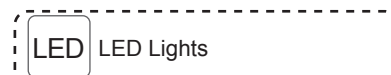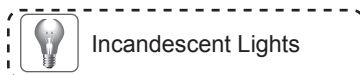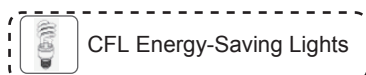
Installation

①Turn off the power,
push the product lamp clockwise
into the mounting base.

②Install the load fixture to
the product base.

③Finish installation.

Note: The metallic material will reflect the microwave, so can not install the product in metal products. Otherwise it will not work properly, e.g. installed in the metallic material of the lamp.

● **Please confirm with professional installation.**

● **For safety purposes, please cut off power before installation and removal operations.**

● **Any losses caused by improper operation,the manufacturer does not undertake any responsibility.**

Setting manner:DIP switch

As below shown, by S1,S2 to set the delay time, S3,S4 the detection range, S5, the LED switch. It may take times to adjust values before they satisfy your need.
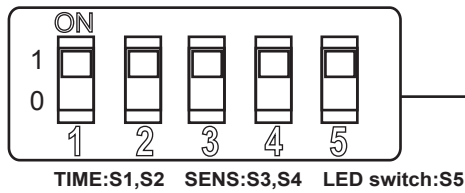
(1)Time setting

It can be defined from 5 seconds to 8minute. Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection range and for performing the walk test. To set the switch to ON is "1", to OFF is "0". Read through the right shown the corresponding table of the switch position to the delay time.
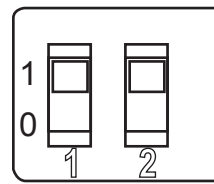
TIME:S1,S2

S1	S2	Time setting
0	0	5s
1	0	1min
0	1	3min
1	1	8min

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.

(2)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 set the switch to ON is "1", to OFF is "0". Read through the right shown the corresponding table of the switch position to the detection range.
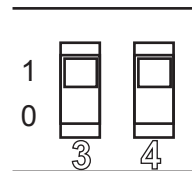
SENS:S3,S4

S3	S4	Detection range
0	0	2m
1	0	4m
0	1	6m
1	1	8m

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. Human movement will cause the sensor induction,so when you under the function testing,please leave the induction region and don't make movement to prevent the sensor continuous work.

Warm Tips: there are difference in detection range about wall installation and ceiling installation.

(3)LED switch setting

To set the switch to ON is "1", to OFF is "0", when turn the switch to ON,the brightness less than 20LUX, LED keep on; when turn the switch to OFF, regardless of how bright,LED always keep it off. Switch position and LED switch corresponding to the right table.
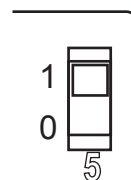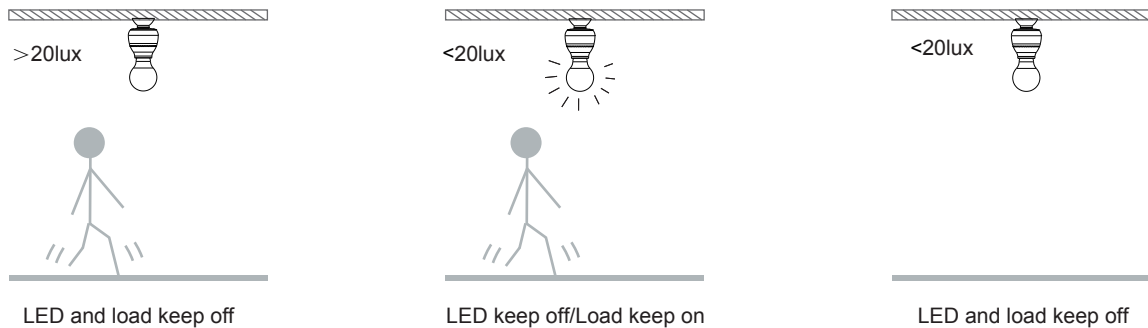
LED switch:S5

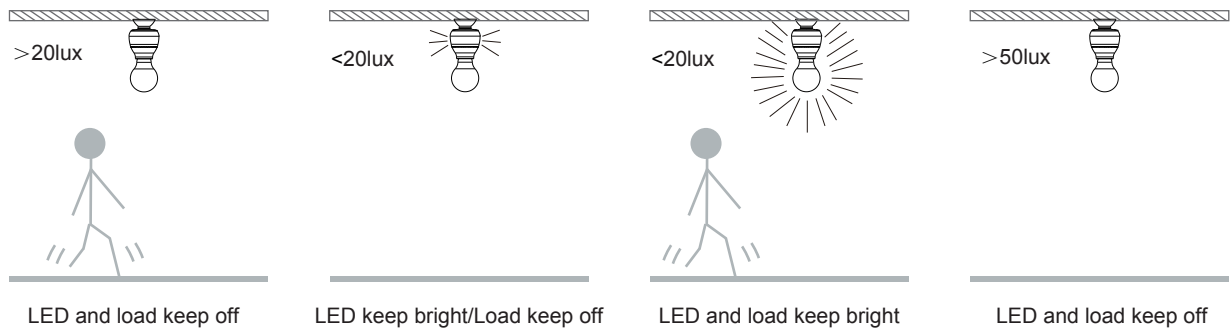| S5	LED switch
0	OFF
1	ON

Light Control Working Principle

When the environment illumination is less than 20lux, the products ready to work(LED keep bright), when detect the signal,the load lamp is bright and work;after the products in induction state,if there is no signal than it will destroy after meet the delay time ,if the light is higher than 50lux it will out of state(LED off).
In the case of 20lux is higher than the ambient illumination, it will not in induction state (LED remains out), the lamps keep destroy state.

When turn the switch S5 to "OFF"

>20lux

<20lux

<20lux

LED and load keep off

LED keep off/Load keep on

LED and load keep off

When turn the switch S5 to "ON"

>20lux

<20lux

<20lux

>50lux

LED and load keep off

LED keep bright/Load keep off

LED and load keep bright

LED and load keep off

⚠ Warning!   The following situations will lead to error reaction.

1、The metallic material will reflect the microwave, so can not install the product in metal products. Otherwise it will not work properly, e.g. installed in the metallic material of the lamp.
2、Being installed on the rocking object will lead to error reaction.
3、The shaking curtain blown by wind will lead to error reaction. Please select the suitable place to install.
4、Being installed where the traffic is busy will lead to error reaction.
5、The sparks produced by some equipment nearby will lead to error reaction.

Fault and the solution

Fault	Failure cause	Solution
The load fails to work.	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.