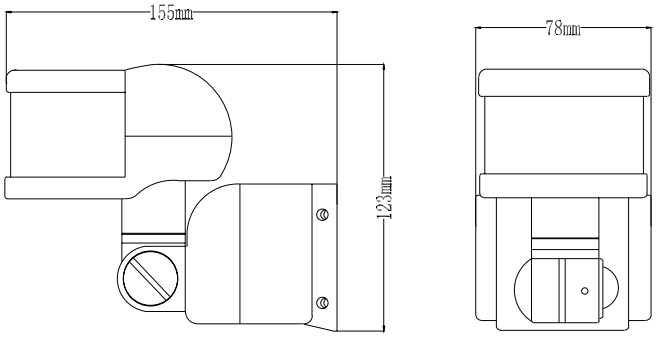
LX48B Infrared Sensor Instruction



Summary

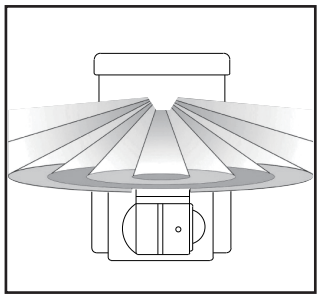
This product is a new energy-saving lighting Switch, it adopts two high sensitivity detectors, integrated circuit and SMT technology. it gathers the functions of automatism, convenience, safety, energy saving, etc. The wide detection is comprised by the right and left services field, which utilizes human infrared rays as signal control source to start the load when one enters the detection field. The sensors can identity day and night automatically. It is used widely and easy to install with the function of power show and detection show.

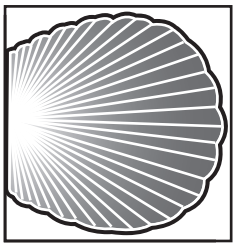
Specifications

Power source: 100-130V/AC ☐
220-240V/AC ☐
Power frequency: 50/60Hz
Rated load: 1200W Max.tungsten(220-240V/AC)
300W Max.fluorescent(220-240V/AC)
800W Max.tungsten(100-130V/AC)
200W Max.fluorescent(100-130V/AC)
Detection range:11m Max.(24℃)
Detection angle: 270°

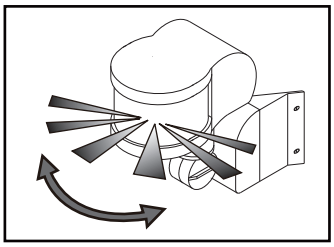
Time setting: min:8sec±3sec
Max:7min±2min(adjustable)
Light-control:<3LUX~sunshine light(adjustable)
Installation height:1.8m~2.5m
Power consumption: 0.45W(working) 0.1W(static)
Detection moving speed:0.6~1.5m/s
Working temperature:-10~+40℃
Relative humidity:<93%RH

Sensor Information





11m Max
Correct moving orientation



270°
Detection Angle

Function

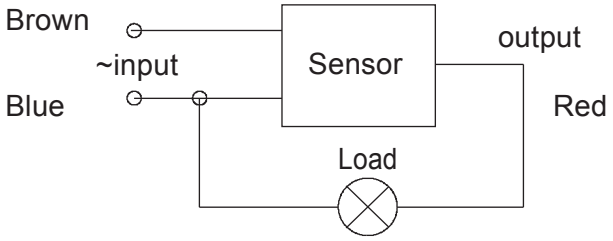
- The detection range can be adjusted: The detection range is near if you press down the switch, otherwise it is far;
- Can identify day and night automatically: The working ambient light of LX48B can be adjusted freely, when you turn it to the sunshine (largest), it can work day and night while it can only work in the circumstance less than 3LUX,If you turn it to moon (smallest). Please refer to the testing way about the adjustment.

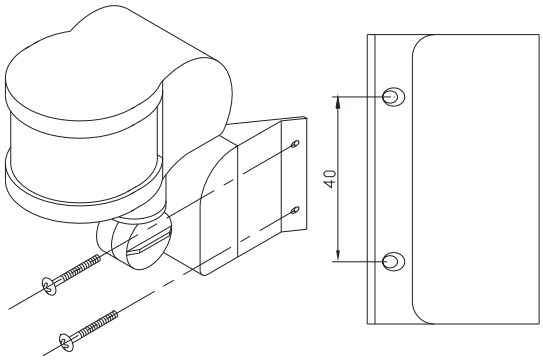
- Power and detection indication: The indicator lamp flash one time each 4sec after switching on the power, it can flash 2 times each 1sec after receiving the Induction signals. So it can show if the detector and power is normal;
- Time setting added continually: When it receives the second induction signals after the first, it should compute time once more on the rest of the first time setting basis;
- Time setting adjustment: The working time setting can be adjusted according to the customer desire, the minimums time is 8sec±3sec,the maximum is 7min±2min;
- Locking function: during working, sensor will keep load lighting when power is shutted off 2 seconds and then on. And shut off the power for 4 seconds and then on, sensor will resume automation.

Installation (like the diagram1)

Δ Switch off the power;
Δ Tight off the screw on the base-lid, pull on the wiring hole, connect the power and load wire into the base-lid;
Δ Fix the base-lid with the dilatability screw on the selected installation position;
Δ Connect the power and load wire into connection line column in the sensor according to the indication diagram;
Δ Fix the sensor on the base-lid, tighten the screw then you can electrify it to test;

Connection-wire diagram

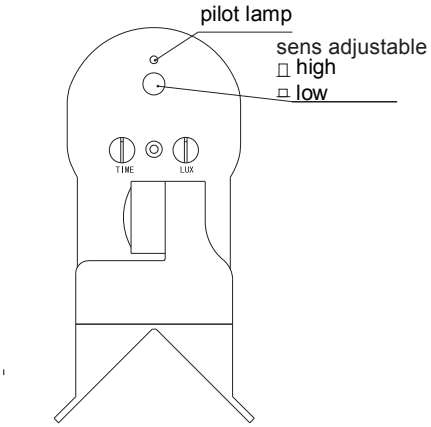




(diagram1)

Test

●Turn the light control knob to the maximum anti-clockwise (LUX); turn the time knob to minimum clockwise.
●Switch on the power, the controlled load should not work, and the indicator lamp flash 1 time every 4sec;the load will work within 5~10sec and the indicator lamp flash 2 times each 1 sec. If there are no induction signals, the load should stop working
within 5~30sec,the indicator lamp should resume flashing 1 time each 4sec;
●After the first is out, make it sense again after 5-10sec, the load should work and the indicator lamp flash 2 times every 1sec,the load stop working within 5-15sec;
●Turn the LUX knob to the minimum anti-clockwise. If you test it in the ambient light more than 3LUX,the sensor load shouldn't work after load stop working; if you cover the detector window with opaque objects (towel etc), the load should work. Under no induction signals condition, it is normal the load stop working within 5-15sec.
●Attention: the second induction must be in 5sec later after the first induction and the load stop working, but when the load doesn't stop working, there needn't be interval to sense continually.



Note

- Electrician or experienced human can install it;
- The unrest objects can't be regarded as the installation basis-face;
- There is no hinder or unrest objects effecting detection in front of the detection window;
- Avoid installing it near temperature alteration zones, for example: Air condition, central heating etc;
- Please don't open the case for your safety if you find the hitch after installation.

Some problems and solved way

1. **The load doesn't work:**

a. Check the power and the load;
b. If the indicator lamp flash 1 time every 4sec;
c. If the load is good;
d. If the indicator lamp quicken to flash after sense;
e. Please check if the working light you set corresponds with the ambient light.

2. The sensitivity is poor:

a. Please check if there is any hinder in front of the detection window that effect to receive the signals;
b. Please check the ambient temperature;
c. Please check if signal source is in the detection fields;
d. Please check the installation height;
e. If the moving orientation is correct.

3. The sensor can't shut off the load automatically:

a. If there is continual signal in the detection field;
b. If the time setting is set to the longest;
c. If the power corresponds with the instruction required;
d. If the temperature change near the sensor, (air conditioner, central heating etc);
e. Check it if it is in locking conditions.

Warning!

- **Please confirm with prefessional 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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