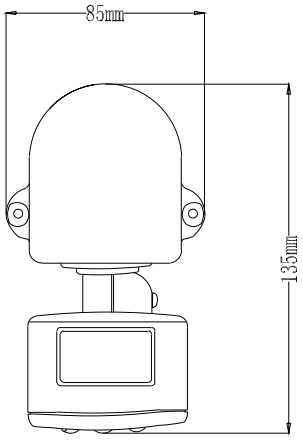
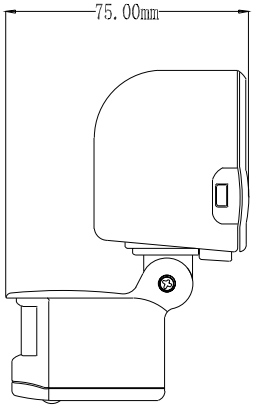
LX16D Infrared Sensor Instruction





Summary

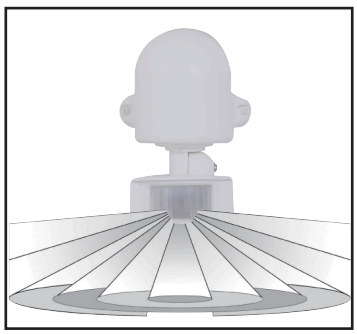
The product is an energy-saving automatic switch, which can turn on lamp when someone comes and off after leaves. it can identify day and night automatically. It adopts a highly stable detector , IC and SMD technology, the performance is stable and reliable. When someone enters the detection range, infrared sensor will trigger the load work, after leaving the range, the load will go out.

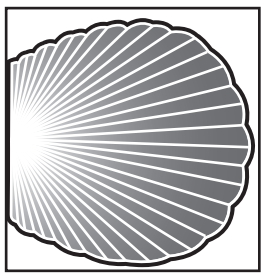
Specifications

Power source: 220-240V/AC ☐
100-130V/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)
150W Max.fluorescent(100-130V/AC)

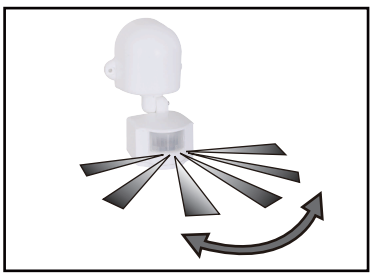
Detection angle: 120 °
Detection range:12m(max)(22℃)(adjustable)
Time setting: 5sec~10±2min(adjustable)
Light-control: <5LUX~daylight(adjustable)
Working temperature: -10℃-+40℃
Working humidity: ≤93%RH
Installation height: 1.5~3m

Sensor Information





12m
Correct moving orientation

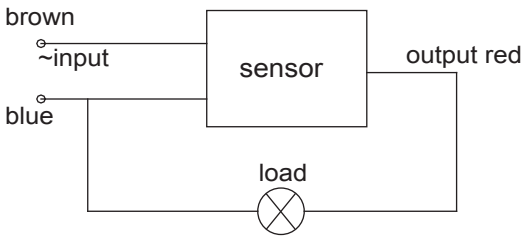


120°
Detection angle

Function

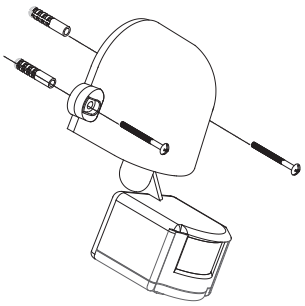
- It can identify automatically day and night, what's more, ambient light can be adjusted freely, so it can work automatically at night and stop in the daytime.
- The detection range can be adjusted varying with the local place.
- Time setting can be adjusted; users can adjust it according to local condition.
- Continuously induce, time-delay can be added automatically.

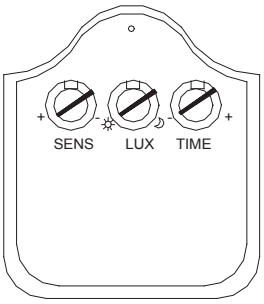
Connection-wire diagram



Installation

1. Tighten off the screws fixing junction box lid, take down the lid.
2. Connect wire according to connection figure; put the wire through crossing-line hole.
3. Cover the junction lid and tighten the screws.
4. Choose installation place as your need,mark two installation holes with a pencil.
5. On the sign bore two installation holes(Φ6mm , height 35mm).
6. Strike the plastic dilatant into the two holes, and then fix the unit with screws.





Test

1. After installation, before electrifying it, turn the time knob(TIME) clockwise to the minimum and turn the light control knob (LUX)) clockwise to the maximum(sun), turn the sensitivity knob(SENS) to the maximum.
2. Electrify it. After 5 seconds, the load should be on. 5-10 seconds later after the load turn off (no induction condition) make it sense, the load should be on, under the condition of no sense signal, it should turn off with 5sec~10sec.
3. If all are normal, turn the time-delay knob to confirm the light time you want; turn the light knob to change the ambient light; and turn the sensitivity knob to adjust the detection distance.
4. Caution: the product can continuously sense as long as signal has made it work. If the product is tested in the daytime (the light is set to less than 10lux), with opaque cover the lens, after the load works, take off the opaque and let it receive natural light, here it can sense continually. After the load stop to work, it will start to work only when the ambient light is less than 10lux.

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.

Cautions

1. Avoid installing the product in the locations where the sunlight irradiate or air current and temperature change obviously.
2. Avoid touching the detection window with sharp and stiff things or coarse pollutants.

Some problem and solved way

1、**The load do not work:**

a: Please check if the connection-wiring of power and load is correct;

b: Please check if the load is good ;

c: Please check if the working light set correspond to light-control.

2、**The sensitivity is poor:**

a: Please check if there has hinder in front of the detection window to effect to receive the signal;

b: Please check if the ambient temperature is too high;

c: Please check if the induction signal source is in the detection fields;

d: Please check if the installation height corresponds to the height showed in the instruction;

e: Please check if the moving orientation is correct.

3、**The sensor can not shut off the load automatically:**

a: Please check if there is continual signal in the detection field;

b: Please check if the time setting is the longest;

c: Please check if the power correspond to the instruction;

d: Please check if the temperature near the sensor change obviously, such as air condition or central heating etc.

Warning!

● When used in different environments, please do not to adjust the sensitivity to the highest. Because that could easily lead to malfunction.

● 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.