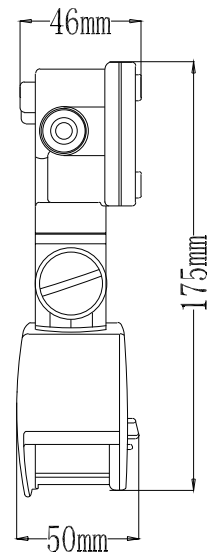
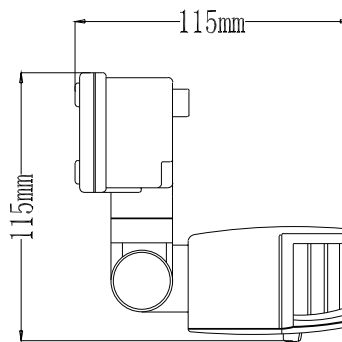
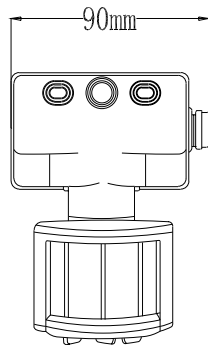


# LX16A-Z Infrared Sensor Instruction

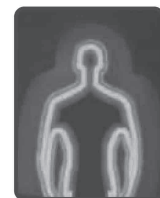


## Summary

This product is an advanced digitally controlled infrared pyroelectric intelligent sensor product. It uses the MCU to accurately calculate the switch information, and accurately controls the relay to be turned on at the zero point of the sine wave, so that each load is turned on. At the zero point of the sine wave, the inrush current problem caused by the conventional control mode when the sine wave high voltage is turned on is avoided, especially the large current damage relay generated by the large-capacity capacitor under the impact of the high voltage under the load. Due to the diversification of current electrical loads, especially LED lamps, energy-saving lamps, and fluorescent lamps all have capacitors with different capacitances. This is a disaster for relays. Sometimes a 50W LED lamp can generate surge currents of 80 to 120A. The 10A ordinary relay can only withstand 3 times of the inrush current, and it is likely that the relay will be broken in a few days or several times. This is why the conventional sensor on the market has a short life and a small load current.

In order to overcome this problem, this product adopts advanced digital precision calculation to turn on the load when the sine wave is at zero potential, thus solving the load surge current problem, greatly enhancing the load capacity and prolonging the service life of the product. The latest control method of mass production sensor technology can easily control any load. It is a medium and high-end product. Although the cost is increased compared with the conventional version, the reliability and life of the product are greatly increased. This product is equal to choosing peace of mind, and choosing safety.

This product has a switching power supply version and a capacitor step-down version. The switching power supply version has a working voltage of up to 100V-277V and a standby power consumption of <0.5W. In principle, the capacitive step-down version can only have a single voltage, and the standby power consumption is >0.7W. You should consider it when choosing a product.



## Specifications

Power source: 100-130VAC 50Hz/60Hz ☐  
220-240VAC 50Hz/60Hz ☐  
Rated load: 1200W (220-240VAC)  
800W (100-130VAC)  
Time setting: 5sec-20min (adjustable)  
Detection angle: 180°

Detection range: 12m max. (22°C) (adjustable)  
Light-control: <10LUX-2000LUX (adjustable)  
Installation height: 1.8m~2.5m  
Working temperature: -10°C~+40°C  
Working humidity: <93%RH

## Function

LUX adjustment:

LUX refers to the illuminance of the environment. Adjusting the LUX adjustment knob allows you to choose which illuminance you want to get the sensor into the induction. Choose the habit that suits you.

Some of the choices in the 20LUX solution are to be illuminated. Some choose 50LUX ambient illumination to be inductive lighting, and some choose to be inductive lighting at any time, as long as the LUX adjustment knob is adjusted to the maximum.

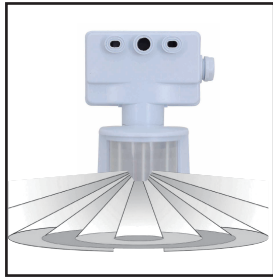
Time adjustment:

The time adjustment knob is used to adjust the time after the sensor senses the light, and the user can reasonably select the delay time after the induction.

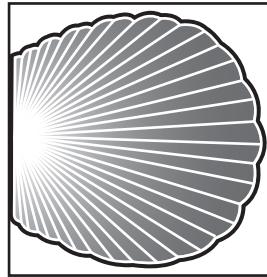
## Feature

- Can identify day and night automatically, the light-control can be adjusted, so it works at night automatically and stops in the daytime.
- Detection range can be adjusted according to the local place.
- Time setting can be adjusted vary to the place.
- It is mainly used fitting with halogen lamp.

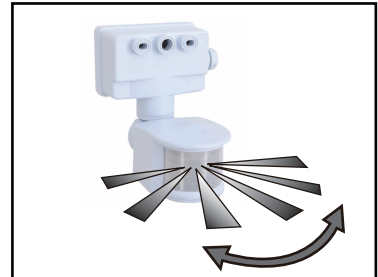
## Sensor Information



Height of installation 1.8-2.5m



12m  
Detection range (22℃)



180°  
Detection angle

## Installation

I. Connect line according to the right figure.

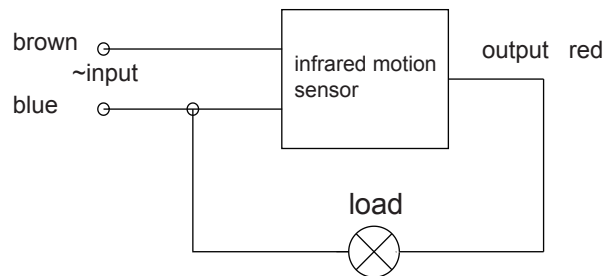
N – blue

L – brown

L' – red

connect blue and brown with power

connect blue and red with load.

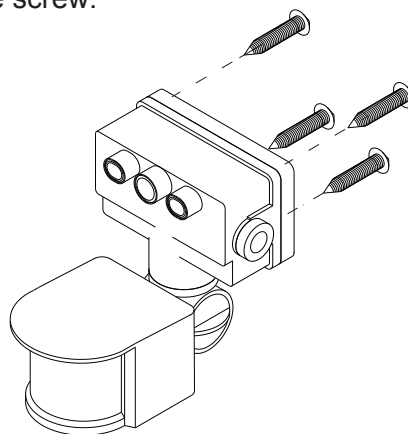


II. 1 Please tighten off the screw on the rear lid of connection-line box.

2 Fix the sensor on the halogen lamp.

3 The lamp power is connected with the sensor according to connection-wire figure.

4 Please cover the rear lid and tighten up the screw.



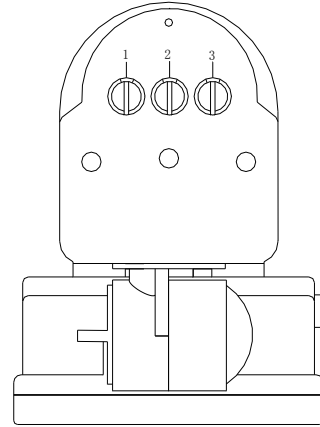
Installation figure fitting the lamp

## Test

1. After installation, please turn anti-clockwise the sensitivity knob(1) to the end and turn anti-clockwise the time knob(2) to the end before you switch on the power. turn the light-control knob(3) clockwise to the maximum value.

2. Turn on the power, and the indicator will flash for 30sec and enter the working state.

3. If all are under good condition, with time adjustment knob the light period can be adjusted according to your desire, with light-control knob ambient-light can be adjusted, with sensitivity adjustment knob the detection distance can be adjusted.



#### **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.**

#### **Note**

Avoid installing it there is sunshine or air stream and temperature alter obviously.  
Avoid impacting the lens device with sharp things and coarse pollutant.  
If there is difference between product and instruction, please refer to product mainly.

### **Warning!**

- 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.

**This manual is for the current content programming of this product, there are any changes and modifications to the manufacturer without notice!**

**This instruction, without our permission, should not be copied for any other purposes.**