

**Summary**

The product is a PIR sensor switch, utilizes the infrared energy from human as control-signal source and determine the light to need to work or not, and control the light on and off automatically .When one enters the detection filed and trigger the sensor to work ,the light turns on; when one leaves the detection filed and the setting time reaches, the light will turn off.It can detect the ambient light illumination automatically and set and adjust the value according to the fact need. Such as, the light will turn on and works when the ambient light illumination is under setting value. once it exceeds the setting value, the light will stop working.The light will be on until the time-delay comes when the sensor is triggered. Once detected the constant signal, the time will be overlaid and the light will be on constantly.It can be installed in indoor, corridor and public-building.

**Specifications**

Power source: 220-240VAC  
 Power frequency: 50Hz  
 Rated load: 2000W Max.tungsten  
 500W Max.fluorescent & LED  
 Time setting: impulse, 10sec~20min  
 (adjust manually/ by infrared remote control)  
 Detection range: 2-8m Max. (radii.)(ceiling installation)  
 (adjust manually/ by infrared remote control)  
 Detection angle: 360° (ceiling installation)

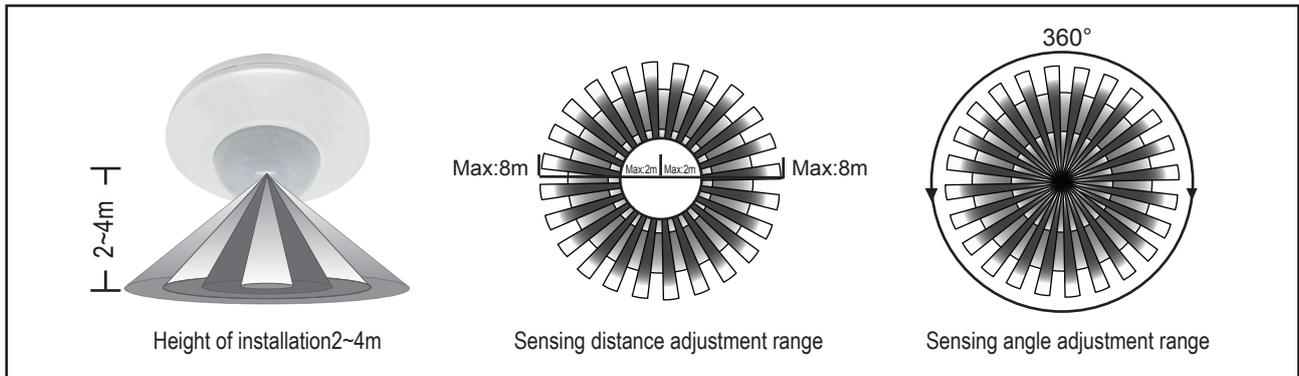
Light-control: <10LUX~2000LUX  
 (adjust manually/ by infrared remote control)  
 Installation height: 2~4m  
 Protection level: IP55  
 Power consumption: working 0.5W  
 Sense motion speed: 0.6~1.5m/s  
 Working temperature: -10°C~+40°C  
 Working humidity: <93%RH

**Function**

- Can identify day and night: the light control can be adjusted freely when it works. It can work in the daytime and at night when it is adjusted on the "sun" position (max); but it can only work in the light control less than 10lux when it is adjusted on the "moon" position (min). As for the adjustment pattern, please refer to the testing pattern.
- Light-control potentiometer (LUX): clockwise the knob to increase its value; anti-clockwise the knob to decrease its value.
- Working time delay adjustable: the length of the delay time can set according to the needs of users by oneself, can be set up in 10 seconds (counterclockwise spin after the callback) to the 20 minutes (exactly) clockwise rotation range, to detect the mobile signal before the end of the this time will be to timing, it is recommended to adjust the detection range or walk test to choose the shortest time.When time knob to adjust to the smallest ( ⌏ ), to "impulse " mode.

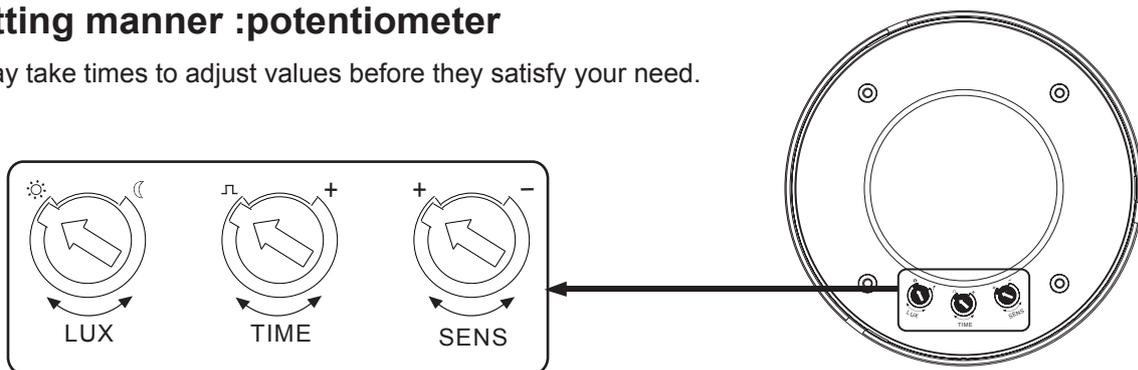
- Time delay can be added continually: when it received the second induction signal after the first it will compute time once more on the rest of the first time delay basic.(Set time)
- Products induction distance is adjustable.
- Products with the remote control.
- Product installation support embedded installation and normal installation with base cover.

## Sensor information



## Setting manner :potentiometer

It may take times to adjust values before they satisfy your need.

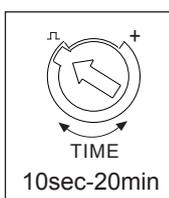


### (1)Light-control setting



When the counterclockwise rotation is at the end, the working illuminance is about 10 LUX, and the working illuminance is about 2000 LUX when rotated clockwise. When walking a test during the day or adjusting the detection area, this knob must be turned fully counterclockwise.

### (2)Time setting

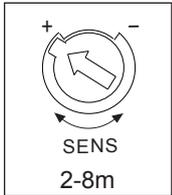


Clockwise rotation increases, counterclockwise rotation decreases. When adjusting to the maximum, the delay time is 20 minutes. When it is adjusted to the minimum (□), it is a flash jump mode. In the flash jump mode, if you want to adjust to the short time mode, adjust the knob clockwise one time, and the LED indicator flashes three times. It is recommended to select the shortest time when adjusting the detection range or walking test.

Note: After the lamp is off, wait for approximately 3 seconds before it can sense again. The light will only light when a signal is detected after this time has elapsed.

**Correct use of delay adjustment:** It is used to adjust the delay time from sensor lighting to automatic light extinguishing after human body motion is detected. Users can adjust according to actual needs. Since infrared sensing products have continuous sensing function, in short, the sensor will sense any time before the end of the delay time, the system will re-time, as long as people are active in the detection range, the light will not die. Therefore, users are advised to reduce the delay time as much as possible to achieve energy savings.

**(1)Detection range setting(sensitivity)**



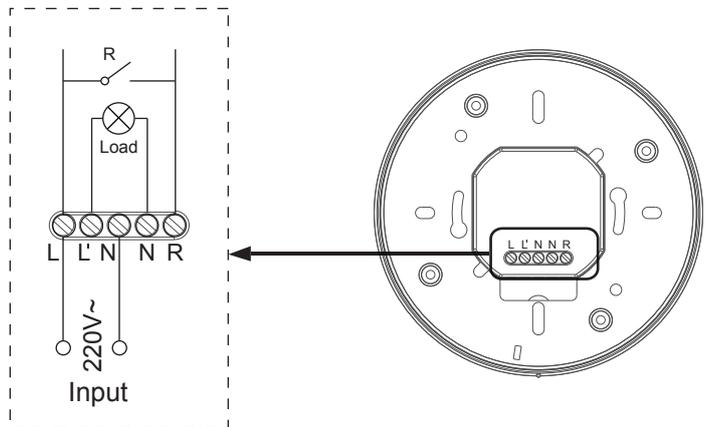
When the knob is turned clockwise, the detection distance increases, and the detection distance decreases when the knob is turned counterclockwise. When the counterclockwise rotation is complete, the detection distance is the smallest (a radius of nearly 2 meters), and the detection distance is the longest when rotated clockwise (a radius of nearly 8 meters).

**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.

**Connection-wire diagram**

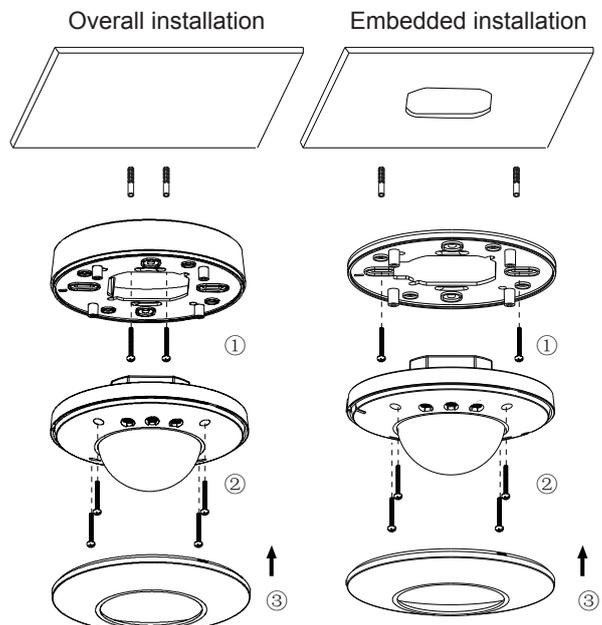
Installation according to the wiring diagram provided (right)

R-side function:manually triggering the induction function.



**Installation instruction**

- (1) Turn off the power before installation;
- (2) Open the top cover with a screwdriver and remove it.  
Unscrew the screws holding the sensor body and bottom cover;
- (3) Install the bottom cover (eg 1) in the selected position;
- (4) Connect the power supply and load to the sensor terminal according to the wiring diagram;
- (5) The sensor body is fixed on the bottom cover (eg 2);
- (6) Fasten the top cover to the sensor (eg 3) and complete the installation.



## Note

- Should be installed by electrician or experienced man.
- Avoid installing it on the unrest objects.
- There shouldn't be hindrance and moving object in front of the detection window effecting detection.
- Avoid installing it near air temperature alteration zones such as air condition, central heating, etc.
- Considering your safety, please don't open the cover when you find the hitch after installation.
- If there is difference between product and instruction, please refer to product mainly.

## Some problem and solved way

- The load don't work:
  - a. Please check the power and load connect is correct.
  - b. Check if the load is good.
  - c. Check if the show lamp accelerates its speed after detecting.
  - d. Check if the working light corresponds to the light-control.
- The sensitivity is poor:
  - a. Please check if there is hinder in front of the detection window to effect receiving the signals.
  - b. Please check if the ambient temperature is too high.
  - c. Please check if the signals 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.
- The sensor can't shut the load automatically:
  - a. Check if there are continual signals in the detection fields.
  - b. Check if the time setting is set to the longest.
  - c. Check if the power corresponds to the instruction.
  - d. Check if the temperature change obviously nears the sensor, such as air condition or central heating etc.



## Warning!

- 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.

**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.**

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

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