

Instruction

HC-150W/HC-500W

Infrared Motion Sensor



Welcome to use HC-150W/HC-500W infrared motion sensor!

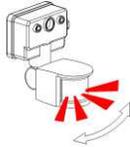
The product adopts good sensitivity detector and integrated circuit. It gathers automatism, convenience, safety, saving-energy and practical functions. It utilizes the infrared energy from human as control-signal source and it can start the load at once when one enters detection field. It can identify day and night automatically. It is easy to install and used widely.

SPECIFICATION:

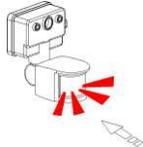
Power Source: 220-240V/AC	Detection Range: 180°
Power Frequency: 50Hz	Detection Distance: 5-12m (<24°C) adjustable
Ambient Light: <3-2000LUX (adjustable)	Working Temperature: -20~+40°C
Time Delay: Min.10sec±3sec	Working Humidity: <93%RH
Max.7min±2min	Power Consumption: approx 0.5W
Rated Load: Max.1200W 	Detection Moving Speed: 0.6-1.5m/s
300W 	

FUNCTION :

- Can identify day and night: The consumer can adjust working state in different ambient light. It can work in the daytime and at night when it is adjusted on the “sun” position (max). It can work in the ambient light less than 3LUX when it is adjusted on the “moon” position (min). As for the adjustment pattern, please refer to the testing pattern.
- SENS adjustable: It can be adjusted according to using location. The detection distance of low sensitivity could be only 5m and high sensitivity could be 12m which fits for large room.
- Time-Delay is added continually: When it receives the second induction signals after the first induction, it will compute time once more on the basic of the first time-delay rest.



Good sensitivity

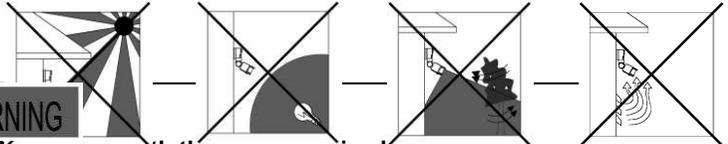


Poor sensitivity

INSTALLATION ADVICE:

As the detector responds to changes in temperature, avoid the following situations:

- Avoid pointing the detector towards objects with highly reflective surfaces, such as mirrors etc.
- Avoid mounting the detector near heat sources, such as heating vents, air conditioning units, light etc.
- Avoid pointing the detector towards objects that may move in the wind, such as curtains, tall plants etc.



CONNECTION:



WARNING

Warning. Danger of death through electric shock!

- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on.
- Check power supply is disconnected.

- The sensor is only suit to specific lamp.
- Loosen the screw on the bottom and unload the bottom (refer to figure 1).
- Pass the wire of lamp through the middle hole on the top and connect the wire of lamp to connection terminal of sensor.
- Fix the sensor on the selected position with two inflated screw (refer to figure 2).
- Pass the wire of power through the hole left side; connect the power wire into connection-wire column according to the connection-wire diagram.
- Install back the bottom, switch on the power and then test it.

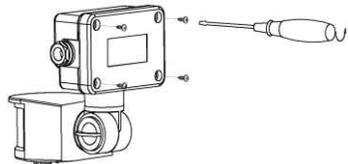


Figure1

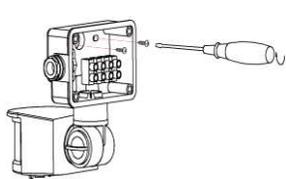
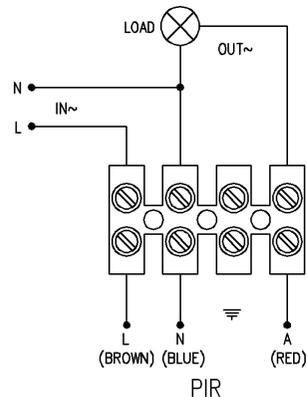


Figure2

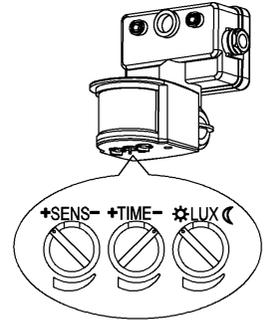


CONNECTION-WIRE DIAGRAM:

(See the right figure)

TEST :

- Turn the LUX knob clockwise on the maximum (sun). Turn the TIME knob anti-clockwise on the minimum. Turn the SENS knob clockwise on the maximum.
- Switch on the power; the load and the indicator lamp don't work. After Warm-up 30sec, the indicator lamp turns on .Under the condition of no sense signal, the load should stop working within 10sec±3sec and the indicator lamp would turn off.
- After the first induction is out, make it sense again after 5~10sec. The load should work again. when no sense signal, the load should stop working within 10sec±3sec.
- Turn LUX knob anti-clockwise on the minimum (moon). If the ambient light is more than 3LUX, the inductor load should not work after the load stop working. If you cover the detection window with the opaque objects (towel etc), the load would work .Under no induction signal condition, the load should stop working within 10sec±3sec.



Note: when testing in daylight, please turn LUX knob to ☀ (SUN) position, otherwise the sensor lamp could not work! If the lamp is more than 60W, the distance between lamp and sensor should be 60cm at least.

SOME PROBLEM AND SOLVED WAY :

- 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 sets correspond to ambient light.
- The sensitivity is poor:

a. Please check if there has any hindrance in front of the detection window to affect 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.

➤ 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 delay is the longest.

c. Please check if the power corresponds to the instruction