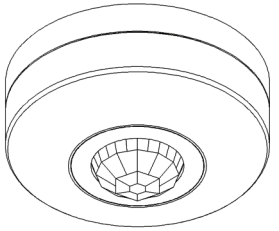
PIR360-SUR

PIR Detector - 1200W - 360º

Instructions

Introducing PIR360-SUR Infrared motion sensor



The product adopts good sensitivity detector, integrated circuit. SMT. It gathers automatism, convenience, safety, saving-energy and practicality functions. The wide detection field is consisting of detectors. It works by receiving human motion infrared rays. When one enters the detection field, it can start the load at once and identify automatically day and night; its installation is very convenient and its using is very wide. It has functions of power indication and the detection indication.

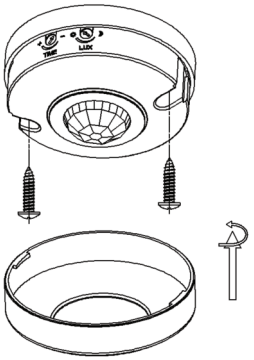
SPECIFICATION:

Power Source: 220V/AC-240V/AC
Power Frequency: 50Hz
Ambient Light: 3-2000 LUX (adjustable)
Time-Delay: min: 10sec ±3sec
max: 7min ±2min
Rated Load: 1200W (incandescent lamp)
300W (energy-saving lamp)
Detection Distance: 6m max (<24º)
Detection Range: 360º
Working Temperature: -20~+40º
Working Humidity: <93%RH
Installation Height: 2.2m~4m
Power Consumption: 0.45W (work)
0.1W (static)
Detection Moving Speed: 0.6~1.5m/s

FUNCTION:

- Can identify day and night: The consumer can adjust work 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 3 LUX when it is adjusted on the “moon” position (min). As for the adjustment pattern, please refer to the testing pattern.
- 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.
- Time–Delay is adjustable. It can be set according to the consumer’s desire. The minimum time is 10sec ±3sec. The maximum is 7min ±2min.

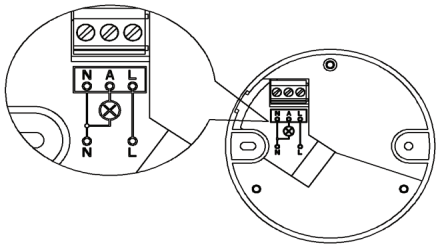
INSTALLATION: (see the diagram)



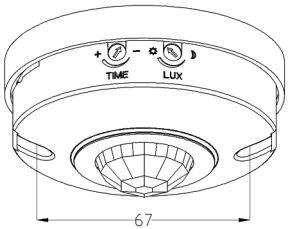
- ➢ Shut off power.
- ➢ Loosen the screw on the bottom lid, open the wiring hole, pass the wire of power and load through the bottom lid.
- ➢ Fix the bottom lid with inflated screw on the selected position.
- ➢ Connect the power and load wire into connection-wire column according to the connecting figure.
- ➢ Put the sensor on the bottom lid, twist the screw tightly then electrify it and test it.

WIRING DIAGRAM:

(See the right figure)



TEST PROCEDURE:



- ➢ Turn the LUX knob clockwise on the maximum (sun), turn the TIME knob anti-clockwise on the minimum.
- ➢ When you switch on the power, the controlled load is not working. Preheat 30 seconds later, when the sensor gets the induction signal, the load will be turned on. After the load is turned off, it will be turned on again when the sensor gets induction signal within 5~15 seconds.
- ➢ After the first is out, make it sense again after 5~10 seconds. The load should work. When there is no inductor signals in the sensor, the load should be stopped working within 5-15 seconds.
- ➢ Turn ambient light knob anti-clockwise on the minimum. If it is adjusted in the less than 3LUX, the inductor load should not work after load stop working. If you cover the detection window with the opaque objects (towel etc), the load work .under no induction signal condition, the load should stop working within 5-15 seconds.

Note: when testing in daylight, please turn LUX knob to ☼ (SUN) position, otherwise the sensor lamp could not work!

NOTE:

- ➢ Before starting any electrical work alays switch off at the mains.
- ➢ If in doubt consult a qualified electrician.
- ➢ Always install in a safe, secure and stable environment.
- ➢ In front of the detection window there shouldn't be any hinderence or movable objects effecting detection.
- ➢ Avoid installing it near air temperature alteration zones for example: air condition, central heating, etc.
- ➢ For your safety. Please don't open the case if you find a hitch after installation.
- ➢ In order to avoid the unexpected damage of product, please add a safe device of 6A when installing infrared sensor, for example, fuse, safe tube etc.
- ➢ If there is difference between the instruction sheet and the functions of the product, please contact the manufacturer.

PROBLEM SOLVING:

- ➢ If the load does not work:
  - a. Please check if the connection wiring of power and load is correct.
  - b. Please check if the load is correct.
  - c. Please check if the working light set corresponds to ambient light.
- ➢ The sensitivity is poor:
  - a. Please check if there is any hinderence 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 this instruction manual.
  - 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 set to the longest setting.
  - c. Please check if the power corresponds to this instruction manual.
  - d. Please check if the temperature near the sensor changes, such as air conditioning units or central heating systems etc.

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