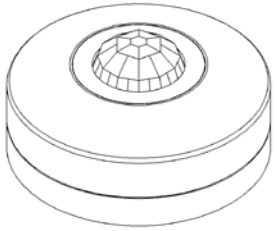
# **Manual** de usuario

**Sensor movimiento y luminosidad IR KOOB, superficie**

**Welcome to use 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.

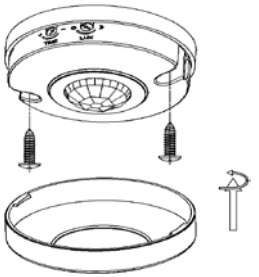
***SPECIFICATION:***

Power Sourcing: 220V/AC-240V/AC
Power Frequency: 50/60Hz
Ambient Light: <10-2000LUX (Adjustable)
Time-Delay: min: 10sec±3sec
Max: 7min±2min
Rated Load: 1200W (incandescent lamp)
300W (energy-saving lamp)
Detection Distance: max. 6m (<24 ℃)
Detection Range: 360°
Working Temperature: -20~+40 ℃
Working Humidity: <93%RH
Installing Height: 2.2m~4m
Power Consumption: <0.9W (work)
<0.9W (static)
Detection Motion 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 10LUX 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.

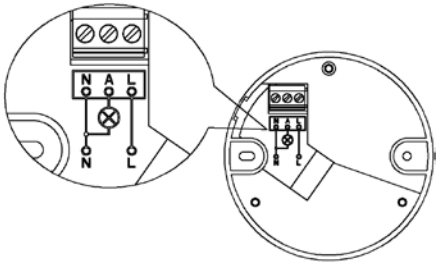
***INSTALLATION*** (see the diagram)



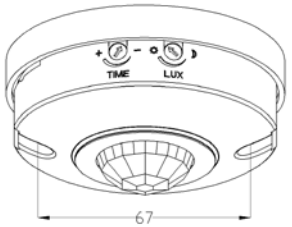
- Switch off the power.
- Please move the upper cover with anti-clockwise whirl as per the diagram in the crust.
- Fix the bottom on the selected position with the inflated screw
- Connecting the power and the load to sensor as per the connection-wire sketch diagram.
- Buttoning the upper cover on the sensor, whirling the cover with clockwise, then you could switch on the power and test it.

***CONNECTION-WIER SKETCH DIAGRAM***

(See the right figure)




***TEST:***




- 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 sec.
- After the first is out, make it sense again after 5~10sec. The load should work. When there is no inductor signals in the sensor, the load should be stopped working within 5-15sec.

- Turn ambient light knob anti-clockwise on the minimum. If it is adjusted in the less than 10LUX, 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 5-15sec.

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

***NOTES：***

- Electrician or experienced human can install it.
- The unrest objects can't be regarded the installation basis-face.
- In front of the detection window there shouldn't be hinder or unrest 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 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.

***SOME PROBLEM AND SOLVED WAY***

- The load don't work:
  - a. Check the power 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 corresponds to the ambient light.
- The sensitivity is poor:
  - a. Please check if in front of the detection window there are hinder that effect to receive 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 the installation height.
- The sensor can't shut automatically the load:
  - a. If there are continual signals in the detection fields.
  - b. If the time delay is set to the longest.
  - c. If the power correspond to the instruction.
  - d. If the air temperature change near the sensor, air condition or central heating etc.