

# OPTONICA

## User Manual

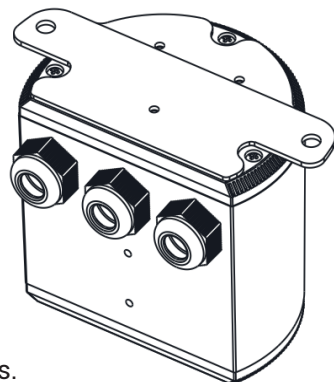
### Microwave Sensor Remote+Highbay Sensor



### Sensor intelligent technology

#### Welcome to use Microwave Sensor!

The product is a new saving-energy switch; it adopts microwave sensor with high-frequency electro-magnetic wave (5.8GHz), integrated circuit. It gathers automatism, convenience, safety, saving-energy and practicality functions. It works by receiving human motion. 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. Detection is possible through doors, panes of glass or thin walls.



### Specification

Power Sourcing: 120-277V/AC  
HF System: 5.8GHz CW radar, ISM band  
Ambient Light: 5,10,20,30,50,100,200 LUX,24H  
Time-Delay: min.: 10,30sec,1,5,8,10,20,30min  
DetectionDistance:25%,50%,75%,100%  
Operating Temperature:-20°C +40°C

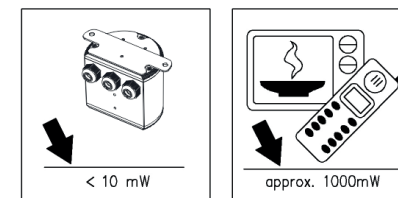
Power Frequency: 50/60Hz  
Detection Range: 360°  
Installing Height: 4~15m.Max  
Transmission Power: <10mW  
Rated Load: 2000W (lamp)  
1000W (LED lamp)

### 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 Press on the "sun.24H" position (max). It can work in the night when it is Press the "5LUX,10,20,30,50,100,200" position. 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 basis 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. The maximum is 30min

### Note

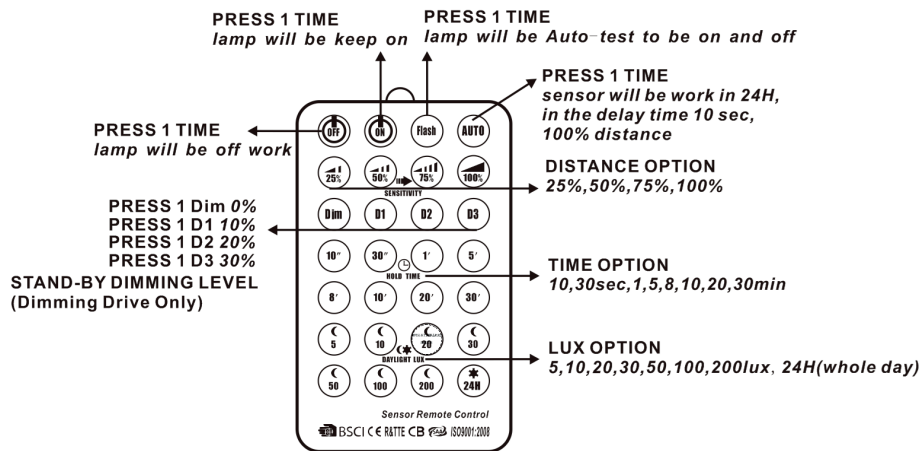
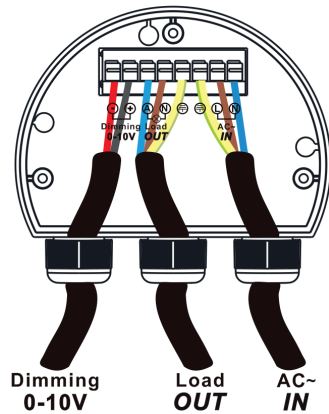
The high-frequency output of this sensor is <10mW- that is just one 100th of the transmission power of a mobile phone or the output of a microwave oven.



### Installation

- Switch off the power.
- Take off the front cover, fixed the bottom on the selected position with two screws.
- Connect the power and the load into the connection-wire column of the sensor according to connection-wire diagram.
- Put the front cover on the product.

## Connection-Wier sketch diagram



## Test

- Press the AUTO Option, sensor will be work in 24H, in the delay time 10 sec, 100% distance.
- Switch on the power, the controlled load and indication lamp both are not working. Preheat 30 sec later, the load and indication lamp should be turned on synchronization. In the absence of no inductor signals, the load should be stopped working within 5-30sec, the indicator lamp is turned off.
- After the first sense is finished, and it will sense again after 5~10sec. The load should work. When there is no inductor signals in the indicator lamp, the load should be stopped working within 5-15sec.

- Press the button to 5lux on the minimum (MOON position). If it is adjusted in the less than 5LUX, 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

Press every button, there will be a "red" led light flash in the sensor lens, which means the function has been change.

## Note

- The unrest objects can't be regarded as the installation basis-face.
- In front of the detection window there shouldn't be hinder or unrest objects affecting detection.
- Avoid installing it near air temperature alteration zones for example: air condition, central heating, etc.
- In order to avoid the unexpected damage of product, please add a safe device of 6A when installing microwave sensor, for example, fuse, safe tube etc.

## Some problem and solved way

- The load don't work:
  - Check the power and the load.
  - Whether the indicator light is turned on after sensing? If yes, please check load.
  - If the indicator light is not turn on after sensing, please check if the working light corresponds to the ambient light.
  - Please check if the working voltage corresponds to the power source.
- The sensitivity is poor:
  - Please check the ambient temperature.
  - Please check if the signals source is in the detection fields.
  - Please check the installation height.
- The sensor can't shut automatically the load:
  - If there are continual signals in the detection fields.
  - If the time delay is set to the longest.
  - If the power corresponds to the instruction.
  - If the air temperature changes near the sensor, air condition or central heating etc.