

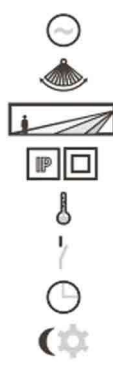
# PIR Sensor



## Infrared Motion Sensor

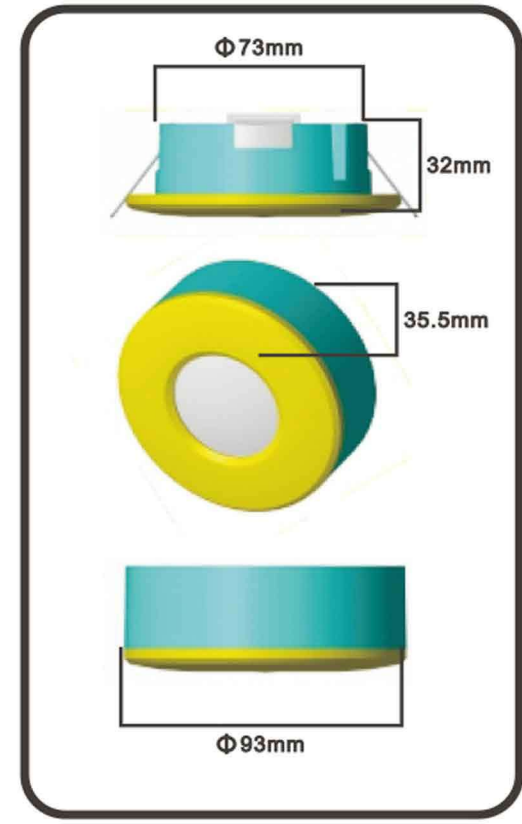
**S-SERIES**

**2in1**

**Edition**



- 220~240V/AC, 50/60Hz
- 360°
- 8m.Max**
- IP20/Class II
- 20°C to +40°C
- 2000W  1000W 
- 10Sec-7Min
- <10Lux~2000 Lux



# S-SERIES

## 2 in 1 Infrared Motion Sensor ESAMMSPIR360AA



## Instruction

### Welcome to use 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 Sourcing: 220 -240V/AC

Power Frequency: 50/60Hz

Ambient Light: <10-2000LUX (adjustable)

Time Delay: Min.10sec±3sec

Max.7min±2min

Rated Load: 2000W

1000W led

Detection Range: 360°

Detection Distance: Max 8m

Power Consumption: approx. 0.5W

Working Humidity: <93%RH

Installing Height: 2.2-4m

Working Temperature: -20℃~+40℃

Detection Motion Speed: 0.6-1.5m/s

### FUNCTION:

- Can identify day and night: 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 "-" 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 within the first induction, it will restart to time from the moment.
- 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 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.



**INSTALLATION:** (see the diagram)

### Method one:

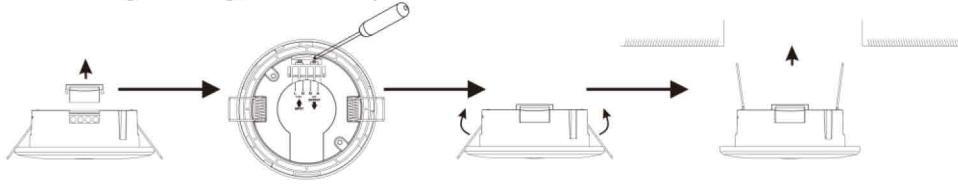
- Please move the upper cover with anti-clockwise whirl as per the diagram on the right.
- Connect the power and the load according to the connection-wire diagram.
- Fix the bottom on the selected position with the inflated screw.
- Install back the upper cover on the sensor, then you could switch on the power and test it.

### Method two:

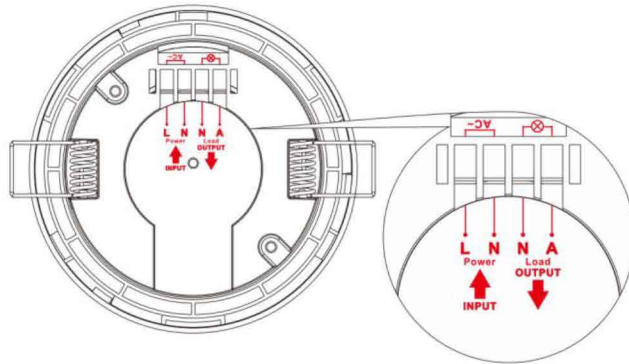
- Unload the transparent vinyl cover which is at the bottom of the sensor
- Loose the screws in the connection terminal, and then connect the power to connection terminal of sensor according to connection-wire diagram.
- Fold the metal spring of the sensor upwards, until they are in "I" position with sensor, and then put the sensor into the hole or installation box which is on the ceiling and has the

similar size with the sensor. Releasing the spring, the sensor will be set in this installation position.

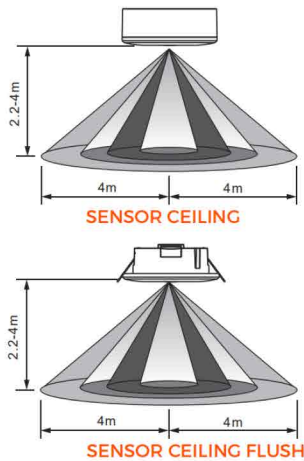
- After finishing installing, turn on the power and then test it.



**CONNECTION-WIRE DIAGRAM:**



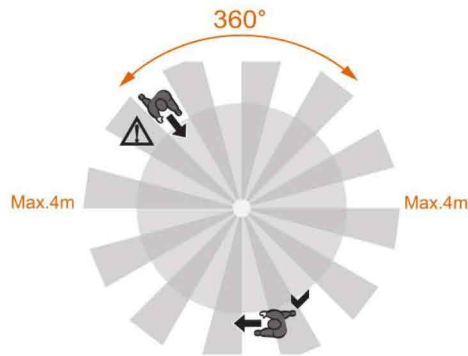
**SENSOR INFORMATION:**



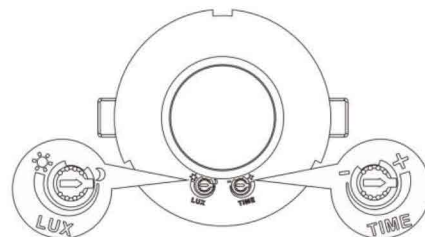
Height of installation: 2.2-4m

**TEST:**

- Turn the TIME knob clockwise on the minimum “-” (10S). Turn the LUX knob clockwise on the maximum (sun).



Detection Distance: Max.8m



- Switch on the power; the sensor and its connected lamp will have no signal at the beginning. After Warm-up 30sec, the sensor can start work. If the sensor receives the induction signal, the lamp will turn on. While there is no another induction signal any more, the load should stop working within 10sec±3sec and the lamp would turn off.
- Turn LUX knob anti-clockwise on the minimum (moon). If the ambient light is more than 10LUX, the sensor would not work and the lamp stop working too. If the ambient light is less than 10LUX (darkness), the sensor would work. Under no induction signal condition, the sensor 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!**

**NOTES:**

- Electrician or experienced human can install it.
- Cannot be installed on the uneven and shaky surface.
- In front of the sensor there shouldn't be obstructive object affecting detection.
- Avoid installing it near the metal and glass which may affect the sensor.
- 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 current 6A when installing microwave sensor, for example, fuse, safe tube etc.

**SOME PROBLEM AND SOLVED WAY:**

- The load doesn't work:
  - a. Check the power and the load.
  - b. Whether the indicator light is turned on after sensing? If yes, please check load.
  - c. If the indicator light is not on after sensing, please check if the working light corresponds to the ambient light.
  - d. Please check if the working voltage corresponds to the power source.
- The sensitivity is poor:
  - a. Please check if in front of the sensor there shouldn't be obstructive object that affect to receive the signals.
  - b. Please check if the signal source is in the detection fields.
  - c. 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 corresponds to the instruction.