# Real Presence Sensor
068282 MS9-DP-W 230V

Instruction

Welcome to use MS9 Microwave Real Presence Sensor! The product adopts microwave sensor mould with high-frequency electro-magnetic wave (24GHz) and integrated circuit. It detects human breath, as long as people are present, the lights will remain on. When people leave, the lights will go out. It gathers automatism, convenience, safety, saving-energy and practical functions.
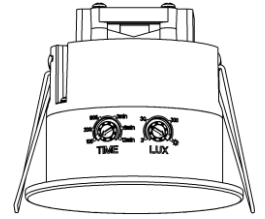
SPECIFICATION:

Voltage:110-240V/AC

Power Frequency: 50/60Hz

Detection Distance: 3m(radius)

Installing Height: 2-4m

Rated Load: 1200W(220-240V/AC)
　　　　　　800W(110-130V/AC)
　　　　　　600W(220-240V/AC)
　　　　　　300W(110-130V/AC)

Detection Range: 360°

Ambient Light: <3-2000LUX (Adjustable)

HF System: 24GHz CW radar, ISM band

Transmission Power: <10mW

Time Delay: Min. 10sec±3sec
　　　　　　　　Max. 12min±1min

Detection Motion Speed: 0.6-1.5m/s

IP Class: IP54

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 3LUX when it is adjusted on the "3" position (min). As for the adjustment pattern, please refer to the testing pattern.

➢ It detects human breathing and keeps lamp on continuously, When you stand in the place less than 3m to the sensor.

➢ When you walk to the place 3-4.5m to the sensor, it detects human motion and turn on the lamp and then turn off after the setted time if there is no movement during the lighting time.

➢ 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 12min±1min.

SENSOR INFORMATION:
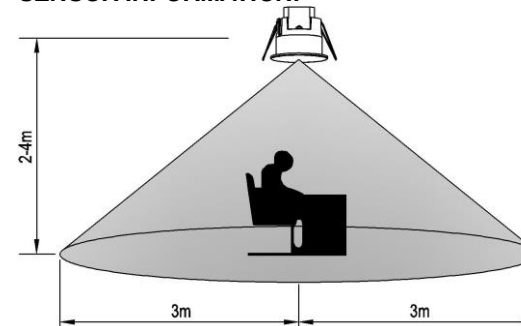
INSTALLATION: (see the diagram)

➢ Switch off the power and unload the transparent cover.

➢ Connect the power to connection terminal of sensor according to connection-wire diagram.

➢ Install back the transparent cover into the original location.

➢ Fold the metal spring of the sensor upwards and then put the sensor into the suitable hole or installation box. Releasing the spring, the sensor will be set in this installation position.

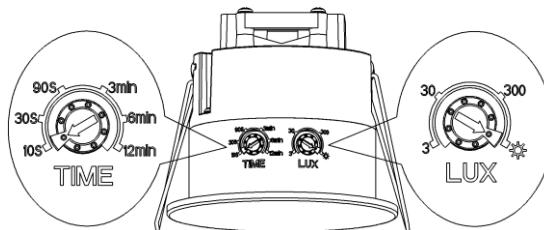➢ After finishing installing, turn on the power and then test it.
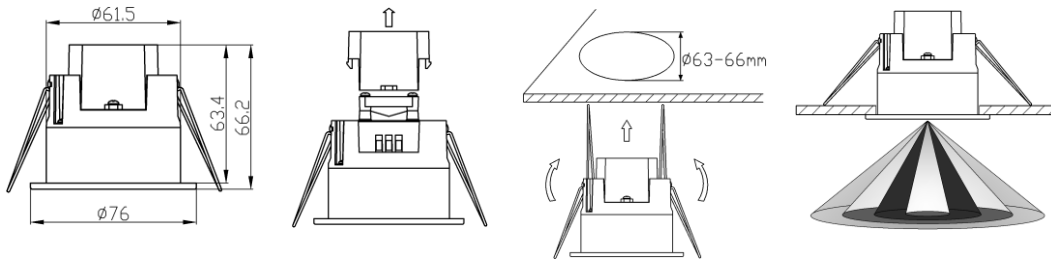
CONNECTION-WIRE DIAGRAM:
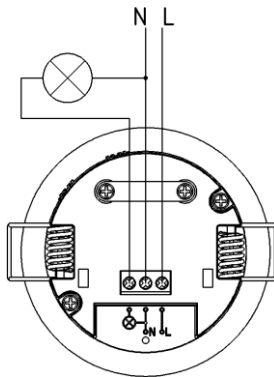
TEST:

➢ Turn the LUX knob clockwise on the maximum (sun). Turn the TIME knob anti-clockwise on the minimum (10s).

➢ When you switch on the power, the light will be on at once. And

10sec±3sec later the light will be off automatically. Then if the sensor receives induction signal again, it can work normally.

➢ When you walk to the place less than 3m to the sensor, it detects human breathing and keeps lamp on. When you walk to the place more than 3m and then the lamp will be off after the setted time if there is no another movement.

➢ When you walk to the place 3-4.5m to the sensor, it detects human motion and turn on the lamp as the setted time.

➢ When the sensor receives the second induction signals within the first induction, it will restart to time from the moment.

➢ Turn LUX knob anti-clockwise on the minimum (3). If the ambient light is less than 3LUX (darkness), the inductor load could work when it receives induction signal.

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

NOTES：

➢ Electrician or experienced human can install it.

➢ Can not 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.

SOME PROBLEM AND SOLVED WAY:

➢ The load don'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 does not turn 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 the ambient temperature.

    b. Please check if the signals 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.