Microwave sensor

IP65 Microwave sensor for warehouse

Antenna module
Daylight sensor
Daylight Sensor
Hold Time
Detection Range

Ø71.60
Ø15.60
17.80
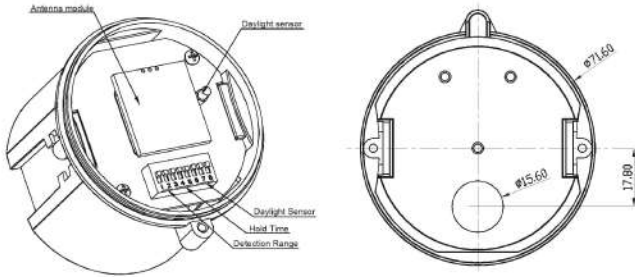
Welcome to use Microwave Sensor!

The product is a new saving-energy switch; it adopts microwave sensor mould with high-frequency electro-magnetic wave (5.8GHz) and integrated circuit. It gathers automatism, convenience, safety, saving-energy and practicality functions. The wide detection field depends on detectors. 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 to go through doors, panes of glass or thin walls.

Ambient daylight threshold | Detection Pattern | Hold-time 5s~30min | 2~2000Lux

SPECIFICATION:

Voltage: 220-240V/AC

Detection Angle: 360°

Daylight sensor: 2lux, 5lux, 20lux, 50lux, 2000lux (choice)

Transmission Power: <0.2mW

Hold Time: 5s, 30s, 1min, 5min, 10min, 20min, 30min (choice)

Rated Load: Max. 2000W / 1000W

Power Frequency: 50/60Hz

Detection Range: 20%, 50%,75%,100%(choice)

Detection Distance: 4-10m (radius), adjustable

HF System: 5.8GHz CW radar, ISM band

Power Consumption: approx 0.9W

Detection Motion Speed: 0.6-1.5m/s

Installing Height: 4-15m

FUNCTION:

➤ Can identify day and night: It can work in the daytime and at night when three knobs are on above position (Daylight Sensor 2000Lux). It can work in the ambient light less than 2LUX when three knobs are on below position (Daylight Sensor 2Lux). As for the adjustment pattern, please refer to the testing pattern.

➤ Hold time is optional. It can be set according to the consumer's desire. The minimum time is 5sec. The maximum is 30min.
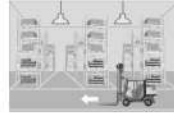
With sufficient ambient light, the sensor does not switch on the lamp.

With insufficient ambient light, the sensor switches on the lamp when motion is detected.
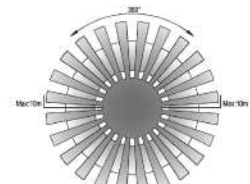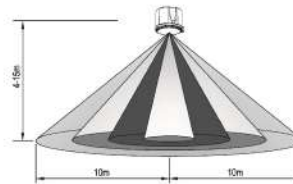
After the hold time, the light switches off automatically when no movement is detected

NOTE: the high-frequency output of the HF sensor is <0.2Mw- that is just one 5000th of the transmission power of a mobile phone or the output of a microwave oven.
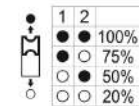
< 0.2 mW   approx 1000mW

SENSOR INFORMATION:

Height of installation: 4-15m
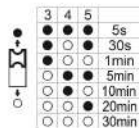
Detection Distance: Max.10m (radius)

SETTING:

Detection Range

Detection distance can be set with different combinations of DIP switches to precisely fit for each specific application.
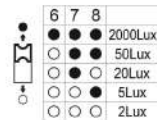
	1	2	
	●	●	100%
	●	○	75%
	○	●	50%
	○	○	20%

Hold Time

Hold Time means the time period you would like to keep the lamp on 100% after the person has left the detection distance.

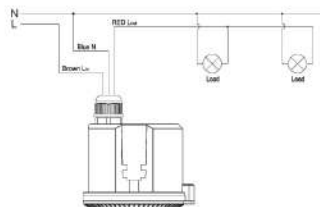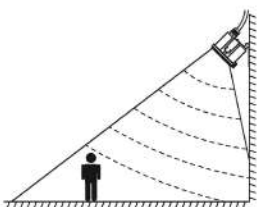|	3	4	5	
	●	●	●	5s
	●	●	○	30s
	●	○	○	1min
	○	●	○	5min
	●	○	●	10min
	○	●	●	20min
	○	○	○	30min

Daylight Sensor

The LUX value can be set on DIP switches in order to fit different ambient light.

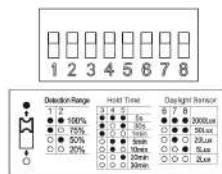|	6	7	8	
	●	●	●	2000Lux
	○	●	●	50Lux
	○	●	○	20Lux
	○	○	●	5Lux
	○	○	○	2Lux

CONNECTION-WIRE DIAGRAM:

N
L
RED L₀₁
Blue N
Brown L₀₁
Load   Load

Remarks: When you install sensor, please keep it parallel to the ground as above pictures.

TEST:

➤ Slide the all knobs on "above" position. When you switch on the power, the light will be on at once, and about 5s later, the light will be off automatically. Then if the light receives induction signal, it can work normally

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

➤ Slide Daylight Sensor switch, the first knob on "○" position, the second knob on "○" position, the third knob on "○" position. If the ambient light is less than 2LUX, the inductor load could work when it receives induction signal.

1 2 3 4 5 6 7 8

Detection Range		Hold Time		Daylight Sensor	
1 2		3 4 5		6 7 8	
● ●	100%	● ● ●	5s	● ● ●	2000Lux
● ○	75%	● ● ○	30s	○ ● ●	50Lux
○ ●	50%	● ○ ○	1min	○ ● ○	20Lux
○ ○	20%	○ ● ○	5min	○ ○ ●	5Lux
		● ○ ●	10min	○ ○ ○	2Lux
		○ ● ●	20min		
		○ ○ ○	30min		

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.

➤ 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.

➤ Motion sensor overrides daylight sensor, meaning the daylight sensor starts to check the ambient natural light only when the lamp is switched off (motion hold-time elapsed).

➤ This 1-10V output is no insulated; please make sure the fixture is constructed according to relevant safety standard.

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.

➤ 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.