MICROWAVE SENSOR FOR BUILDING-IN

Model: MSV

INSTRUCTIONS FOR EXPLOITATION

Radar sensor uses frequency-modulated waves to detect moving and still objects. It detects the presence in its controlled area and turns on/off the electrical circuit accordingly.

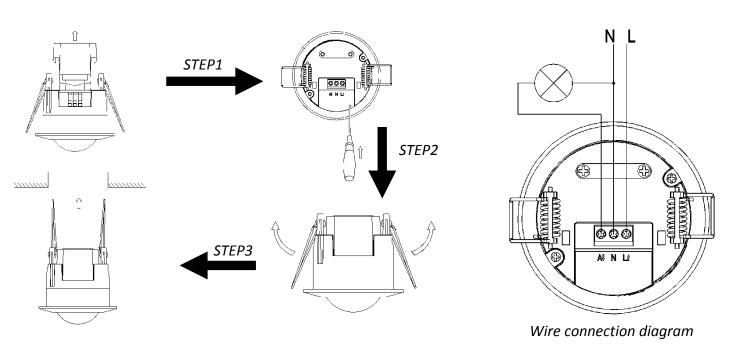
The technology used in radar sensors has higher movement sensitivity and bigger detection range, compared to infrared sensors. The radar sensor signal can pass freely through wood, glass and thinner walls.

TECHNICAL SPECIFICATIONS

Voltage:	220-240 V AC / 50-60 Hz	HF System:	5.8GHz CW radar, ISM band
Ambient Light:	<3 – 2000 lx (adjustable)	Transmission Power:	<0.2mW
Time Delay:	min. $10 \text{sec} \pm 3 \text{sec}$.	Power Consumption:	approx. 0.9W
	max. 12 $\min\pm1$ \min	Detection Motion Speed	d: 0.6 – 1.5m/s
Rated Load:	1200W (incandescent lamps)	Working Temperature:	-20°C +40°C
	300W (energy-saving lamps)	Working Humidity:	<93%RH
Detection Range:	360°	IP rate:	IP20
Detection Distance:	1 – 8m (radius) adjustable	Mounting hole:	ø62
Installation Height:	1.5 – 3.5m	-	

FUNCTION

- Identifying day and night: It can work in daytime and at night when it is adjusted on the "sun" position (max). It can work in the ambient light less than 3lx when it is adjusted on the "moon" position (min). As for the adjustment pattern, please refer to the testing pattern.
- Adjusting SENS: It can be adjusted according to the location. The detection distance of low sensitivity could be only 1m and high sensitivity could be 8m which fits for large room.
- Adjusting TIME DELAY: It can be set according to the consumer's desire. The minimum time is 10sec (±3sec). The maximum is 12min (±1min). When it receives the second induction signals within the first induction period, it will compute time once more on the basic of the first time-delay reset.



INSTALLATION

- 1. Switch off the power supply.
- 2. Open the transparent vinyl cover which is at the bottom of the sensor.
- 3. Loose the screws in the connection terminal, and then connect the power and rated load to connection terminal of sensor according to connection sketch map.
- 4. Tighten the screw and put the transparent vinyl cover into the original location
- 5. 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.
- 6. After finishing the installation, the sensor could be connected to the power and tested.

TEST

- Turn the LUX knob clockwise on the maximum. Turn the TIME knob anti-clockwise on the minimum. Turn the SENS knob clockwise on the max.
- 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.
- Turn LUX knob anti-clockwise on the minimum. If the ambient light is less than 3 lx, 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 light could not work.

NOTES

- 1. Must be installed by a technically qualified person.
- 2. Cannot be installed on the uneven or shaky surface.
- 3. In front of the sensor there shouldn't be obstructive object affecting detection.
- 4. Avoid installing it near the metal and glass which may affect the sensor.
- 5. For your safety, please don't open the case before switching off the power supply, if you find a problem after installation.
- 6. 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.

PROBLEMS AND TROUBLESHOOTING

1. THE LOAD DOES NOT WORK:						
a. Check the power	b. Whether the indicator		c. If the indicator light is not	d. Please check if the		
and the load.	light is turned on after		on after sensing, please	working voltage		
	sensing? If yes, please		check if the working light	corresponds to the power		
	check load.		corresponds to the ambient	source.		
			light.			
2. THE SENSITIVITY IS POOR:						
a. Please check if in front of the sensor		b. Please check if the signal source is		c. Please check the		
there is an obstructive object that can		in the detection fields.		installation height.		
affect the receiving of the signals.						
3. THE SENSOR CAN'T SHUT AUTOMATICALLY THE LOAD:						
a. If there are continual signals in the b		b. If th	ne time delay is set to the	c. If the power corresponds		
detection fields.		longest.		to the instruction.		

TAKING CARE OF THE NATURAL ENVIRONMENT CLEANLINESS

- The product and its components are not harmful to the environment
- Please dispose the package elements separately in containers for the corresponding material.
- Please dispose the broken product separately in containers for out of usage electrical equipment.