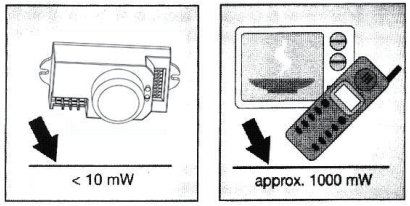
145*210MM

Microwave sensor M001 instruction

The sensor is an active motion detector, it emits high-frequency electro-magnetic wave （5.8GHz）and receives their echo. The sensor detects the change in echo from even the slightest movement in its detection zone. A microprocessor then triggers the “switch light ON” command. Detection is possible through doors, panes of glass or thin walls.

Important: persons or objects moving towards the sensor are detected best!

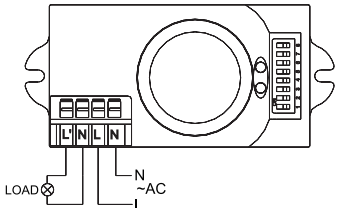
NOTE: the high-frequency output of this sensor is <10Mw- that is just one 100th of the transmission power of a mobile phone or the output of a microwave oven.



Technical Specifications

Power supply：220-240VAC ☑ 110-130VAC ☐
Power frequency：50/60Hz
Installation sit： Indoors, ceiling mounting
Transmission power：<10mW
HF system： 5.8GHz CW radar，ISM band
Detection angle：360°
reach:2-10m（radii.）, adjustable
Rated load: 1200W (220-240VAC)
600W (100-130VAC)
time setting：10sec to 30min
light control：10~500LUX
Power consumption：approx.0.9W

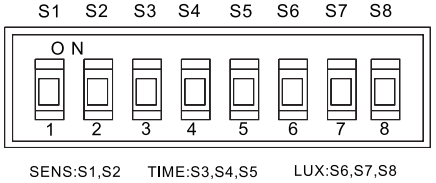
Connection illumination



Connect N, L with power;
Connect N, L’ with load.

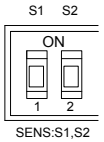
Specifications setting

Consider the picture. S1, S2 set sensitivity, S3, S4, S5 set time S6, S7, S8 set the lux.



Reach setting (sensitivity)

Reach is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 2.5m, switch to the on is “1”, switch to the off is “0”;The corresponding file of switch location and detection distance as follow:

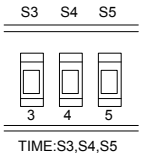


S1	S2	distance	S1	S2	distance
0	0	2m	1	0	8m
0	1	5m	1	1	10m

NOTE: The above detection distance is measured using a person who is between 1.6m~1.7m tall with an average build, moving at a speed of 1.0~1.5m/sec. if any of these variables are changed, the detection distance will also resultantly change.

Time setting

Time can be set 10s to 30min.Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test. Switch to the on is “1”, switch to the off is “0”; the corresponding file of switch location and detection distance as follow:

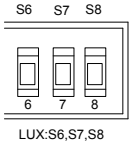


S3	S4	S5	time	S3	S4	S5	time
0	0	0	10S	1	0	0	10min
0	0	1	30S	1	0	1	15min
0	1	0	1min	1	1	0	20min
0	1	1	5min	1	1	1	30min

NOTE: after the light switches OFF, it takes approx. 1sec before it is able to start detecting movement again. The light will only switch on in response to movement once this period has elapsed.

Light-control setting

The chosen light response threshold can be infinitely from approx. 10lux-2000lux. switch to the on is “1”, switch to the off is “0”; he corresponding file of switch location and detection distance as follow:



S6	S7	S8	LUX	S6	S7	S8	LUX
0	0	0	24H	1	0	0	100 LUX
0	0	1	10 LUX	1	0	1	200 LUX
0	1	0	20 LUX	1	1	0	300 LUX
0	1	1	50 LUX	1	1	1	500 LUX

Troubleshooting

Malfunction	Cause	Remedy
The load will not work	• wrong light-control setting selected	• Adjust setting
	• load faulty	• Change load
	• mains switch OFF	• Switch ON
The load work always	• continuous movement in the detection zone	• check zone setting
The load work without any identifiable movement	• the sensor not mounted for detecting movement reliably	• securely mount enclosure
	•movement occurred, but not identified by the sensor(movement behind wall, movement of a small object in immediate lamp vicinity etc.)	• Check zone setting
The load will not work despite movement	• rapid movements are being suppressed to minimize malfunctioning or the detection zone you have set is too small	• Check zone setting