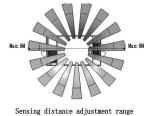
PCMR Microwave sensor Instruction

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!

Sensor information







Sensing angle adjustment range

Specifications

Power supply: 220-240VAC

Installation sit: Indoors, ceiling mounting

HF system: 5.8GHz CW radar, ISM band

reach:2-16m (dia), adjustable time setting: 10sec to 30min

Power consumption: approx.0.9W

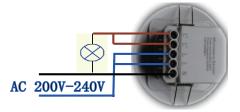
Power frequency: 50/60Hz
Transmission power: <10mW

Detection angle: 360° Rated load: 2000W

light control: 2~2000 LUX

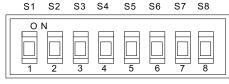
Connection illumination

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.



SENS:S1,S2 TIME:S3,S4,S5 LUX:S6,S7,S8

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 10m, 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	the sensor not mounted for detecting	securely mount enclosure		
identifiable movement	movement reliably			
	•movement occurred, but not identified by the	Check zone setting		
	sensor(movement behind wall, movement of a			
	small object in immediate lamp vicinity etc.)			
The load will not work	rapid movements are being suppressed to	Check zone setting		
despite movement	minimize malfunctioning or the detection zone			
	you have set is too small			