pdlux

Microwave Sensor PD-MV1002 instruction





SPECIFICATIONS

Power source:90-240V/AC Power frequency: 50/60Hz Rated load:200W/2.5A Max. fluorescent(**cosφ=0.5**) HF system: 5.8GHz CW radar, ISM band Installation sit: Ceiling mounting,Wall installation Transmission power: <0.2mW Detection range: 1m/2m/3m/4m/5m/7m/9m/12m(radii.) (adjustable) Light-control: 15-330LUX (adjustable)

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

Detection angle: 360°(Ceiling installation) 180°(wall installation) Time setting: delay time:10sec/20sec/30sec/50sec/ 90sec /150sec/210sec/300sec half bright state(standby time): 0.5min/1min/3min/5min/ 10min/20min/40min/60min (adjustable) Standby power: Approx. 0.5W



INDUCTION RANGE



Tel: 86-574-83008608(20 lines)



It can be installed inside of product that is made of glass and plastic because that these materials make little effect to microwave. Connect the product as shows below; you can change a common light to an automatic light.





when the sensor is installed inside the ceiling floor, the sensitivity to light will be invalid.

This product will be faithfully waiting for you. It will turn on the light automatically when you pass by, and turn off the light automatically when you leave off. You can set the closing delay time to meet your needs. For example, you may adjust the TIME sliding controller to select the delay time 12sec~30min when you think you will come back in 10mins. The TIME sliding controller is as follow (Keep away from the detecting zone after adjusting the testing time or that the detecting time will be inaccurate when any moving object is detected again by the product).

PARAMETER SETTING



Operation delay(S1 S2 S3)

The specific time is 10 – 300sec adjustable, $(10\12\14\18\20\25\30\35\40\50\70\100\150\200\250\300sec)$ 16 files in all

S1	S2	S 3	
0	0	0	
1	1	1	

5	51 3	S2	S3
S1	S2	S3	TIME
0	0	0	10sec
0	0	1	20sec
0	1	0	30sec
0	1	1	50sec
1	0	0	90sec
1	0	1	150sec
1	1	0	210sec
1	1	1	300sec



Standby time (S4 S5 S6)

The specific time is 5 – 60minutes adjustable, (5\7\9\12\16\30\45\60min)8 files in all



	S4	S 5	S6
S4	S5	S6	STANDBY TIME
0	0	0	0.5min
0	0	1	1min
0	1	0	3min
0	1	1	5min
1	0	0	10min
1	0	1	20min
1	1	0	40min
1	1	1	60min

Detection distance(S7 S8 S9)

0 - 12 meters adjustable (1\2\3\4\5\7\9\12M)8 files in all

S 7	S 8	S 9
0	0	0
1	1	1

	S 7	S 8	S9
S7	S8	S9	DETECTION RANGE
0	0	0	1M
0	0	1	2M
0	1	0	3M
0	1	1	4M
1	0	0	5M
1	0	1	7M
1	1	0	9M
1	1	1	12M

Mode Select (S10)

Select between normal mode and test mode

	S10
S10	MODE SELECT
0	normal
1	test

Standby brightness (S11)	
1 amp hrightness 10% or 15%	0

0
S11

1

0

S10

S11			
S12	STANDBY BRIGHTNESS		
0	10%		
1	15%		

	S12	
1	S12	LIGHTING COLLECT
0	0	internal
S12	1	external

Alternat	ives of inter	nal or	
exterior	daylighting	system	(S12)

Set OFF file, adopting internal daylighting system, set ON file, adopting exterior daylighting sysytem



(S) Enviroment brightness setting knob

According to the ambient brightness regulating potentiometer, the light source of luminance changes between 10% to 100%. With the clockwise, the luminance increases, while anti-clockwise, decreases. It can set the ambient brightness.

For instance: one day in office. ambient brightness is set for 300LUX.





8:00AM,Bob to office,lamp on100%, surround lighting300lux.











9:15AM,Bob returns,lamp on 40%(daylight is getting stronger),surround lighting300lux.



12:00AM,External light reaches300lux, system shuts down.

5:00PM,External light below300lux, system re-activated,lamp on 60%.

6:00PM,Bob leaves office,system in stand-by mode, lamp on 10%.

6:30PM,Stand-by time out, system shuts down.

Warning! The following situation will lead to misoperation

- 1. Being installed in the rocking object will lead to misoperation.
- 2. The shaking curtain which is blown by wind will lead to misoperation, please select the suitable installed place.
- 3. Being installed in the place where the traffic is busy will lead to misoperation.
- 4. It will lead to misoperation when there are sparks produced by some equipment nearby.

The detection distance may multiply for the reflection on microwave electromagnetic field by the metal or glass materials. Thus, lower the sensitivity to reach the appropriate detection distance. Never turn the SENS knob to the maximum value to avoid error detection. Also the surrounding environment will lead to error action, e.g. the automobiles passing by or the wandering objects caused by the wind. Products should be installed more than 4 meters one from the other, otherwise the interference among them will cause error action.

It is mainly for the adjustment of the delay time from the moment the signal detected and light auto-on till the light auto-off. You can define the delay time to your practical need. But you'd better lower the delay time for the sake of energy saving, since the microwave sensor has the function of continuous sensing, that is, any movement detected before the delay time elapses will re-start the timer and the light will keep on only if there is human in the detection range.

We are committed to promoting the product quality and reliability, however, all the electronic components have certain probabilities to become ineffective, which will cause some troubles. When designing, we have paid attention to redundant designs and adopted safety quota to avoid any troubles.

This instruction, without our permission, should not be copied for any other purposes.

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