

TECHNICAL DATA SHEET



The product is a new energy saving switch; it adopts microwave sensor with high- frequency electro-magnetic wave (5.8GHz) and integrated circuit. It gathers automatism, convenience, safety, saving-energy and practical functions. The wide\detection field depends on detectors. 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. This is an ultra-reliable sensor, especially as there are no gaps in the detection zone.

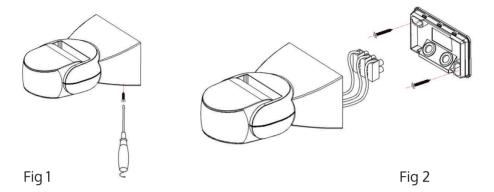
TECHNICAL SPECIFICATION		
Power Source:	220-240V/AC	
Power Frequency:	50/60Hz	
HF System:	5.8Ghz CW Radar, ISM Band	
Transmission Power:	<0.2mW	
Time Delay:	Min. 10Sec±3Sec, Max. 12Min±1Min	
Rated Load:	1200W (Incandescent), 300W (LED Load)	
Detection Range:	180°	
Detection Distance:	5-12m (Adjustable)	
Ambient Light:	<3-2000LUX	
No. of Wires:	3	
Install Height:	1.5-3.5m	
Power Consumption:	Approx 0.9W	
Detection Motion Speed:	0.6-1.5m/s	

FUNCTION

- ➤ Can identify day and night: It can work in the daytime and at night when it is adjusted on the "sun" position (max). It can work in the ambient light less than 3LUX when it is adjusted on the "3" position (min). As for the adjustment pattern, please refer to the testing pattern.
- > SENS adjustable: It can be adjusted according to using location. The detection distance of low sensitivity could be only 2m and high sensitivity could be 16m which fits for large room.
- ➤ Time-Delay is added continually: When it receives the second induction signals within the first induction, it will restart to time from the moment.
- ➤ Time-Delay is adjustable. It can be set according to the consumer's desire. The minimum time is 10sec±3sec. The maximum is 12min±1min.

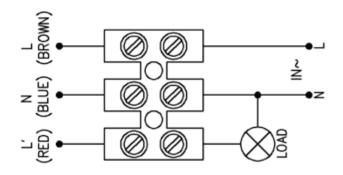
INSTALLATION

- 1) Loosen the screw on the bottom and unload the bottom (refer to the figure1).
- 2) Pass the power wire through the hole with gasket in the bottom. Connect the power wire into connection-wire column according to the connection-wire diagram.
- 3) Fix the bottom with inflated screw on the selected position (refer to the figure2).
- 4) Install back the sensor on the bottom, tighten the screw and then test it.

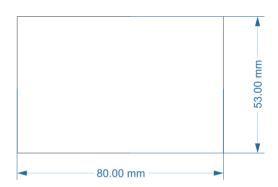


CONNECTION WIRE DIAGRAM APPLICATION

PRODUCT SIZE DIAGRAM



Note: When testing in daylight, please turn LUX knob to (SUN) position, otherwise the sensor could not work!



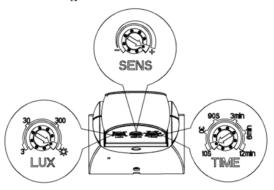
CALIBRATION

- 1) Sensitivity: Reach is the term used to describe the diameter of the more or less circular detection zone produced on the ground after mounting the sensor at a height of 2.5 to 6m. Turn the reach control fully anti-clockwise to select minimum reach(approx. 2m dia), and fully clockwise to select maximum reach(approx. 16m dia). Adjust according to locations and site requirements.
- 2) Time Setting: The light can be set to stay ON for any period of time between approx. 10sec(turn fully anticlockwise) and a maximum of 12min(turn fully clockwise). 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.
- **3) Light Control Setting:** The chosen light response threshold can be adjusted from approx. 2-2000 lux. Turn it fully anti-clockwise to select dusk-to-dawn operation at about 2 lux. Turn it fully clockwise to select continuous daylight operation. The knob must be turned fully clockwise when adjusting the detection zone and performing the walk test in daylight, then adjust setting according to site requirement.

TEST

- Turn the LUX knob clockwise on the maximum (sun). Turn the SENS knob clockwise on maximum (+). Turn the TIME knob anti-clockwise on the minimum (10s).
- ➤ When you switch on the power, the light will be on at once. And 10sec±3sec later the light will be off automatically.

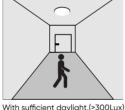
 Then if the sensor receives induction signal again, it can work normally.
- > When the sensor receives the second induction signals within the first induction, it will restart to time from the moment.
- Turn LUX knob anti-clockwise on the minimum (3). If the ambient light is less than 3LUX (darkness), the inductor load could work when it receives induction signal.



APPLICATION

➤ Daylight Function

Hold time is set to 30 sec, Lux is set to 300 Light on when detect movement and off After people leave at leave at night. Applications: Corridor, Staircase.



With sufficient daylight,(>300Lux even when motion detected, light remains off.



With insufficient daylight,(<300Lux) when motion detected, light ON



After the last detection and the present hold time (30sec.) elapsed. light OFF.

➤ No Daylight Function

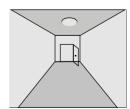
The daylight threshold is set to or 2000 Disable Light on when detect movement, After people leave, Light off after hold time elapsed (30 Sec.) Applications: Dim places such as Basement Parking, Underpass.



When motion is detected, the sensor will switch on the light to 100% brighteness.



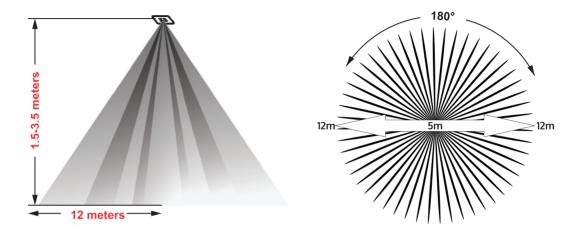
After people leave the detection area, light remains 100% brightness within hold time.



After the last detection and the present hold time (30 sec.) elapsed, light OFF.

NOTE

- 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.



TROUBLESHOOTING

Malfunction	Cause	Remedy
The load will not work	Wrong light control selected Load faulty Mains is switched OFF	Adjust Setting Change Load Switch ON
The load is always on	Continuous movement in detection zone	Check zone setting
The load is ON without any identifiable movement	The sensor not mounted for detecting movement reliably Movement occurred, but not identified by the sensor(movement behind wall, movement of a small object in immediate lamp vicinity etc)	Securely mount enclosure 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.









