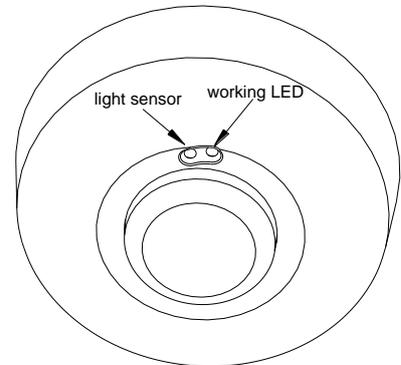




SN-MW700DC Microwave Sensor

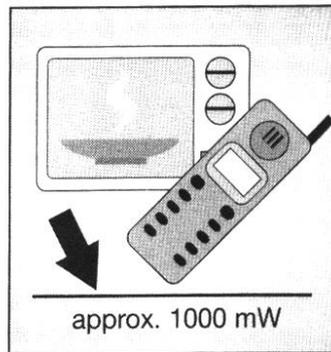
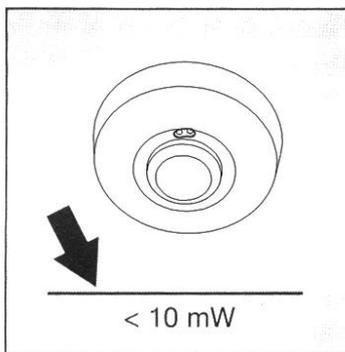
Instruction Manual

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: 12-24V DC

Installation site: Indoors, Ceiling mounting

HF system: 5.8GHz CW radar, ISM band

Transmission power: <10mW

Current : MAX.7A

Detection angle: 360°

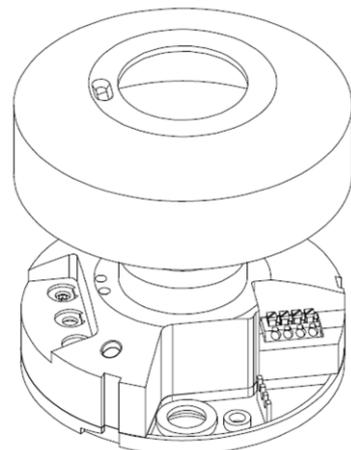
Reach:1-8m (radii.) , adjustable

Time setting: 10sec to 30min

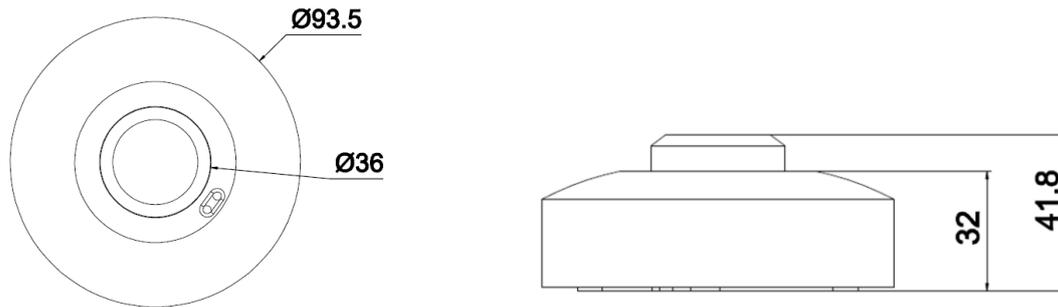
Light Control: 2~2000LUX

Power consumption: <0.9W

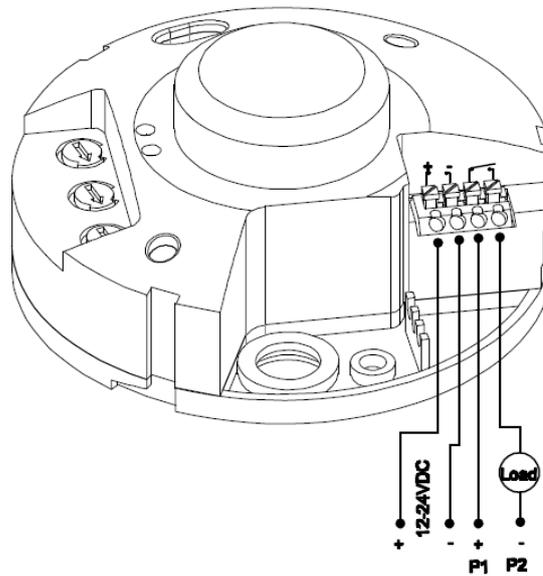
Output: Dry contact



Product Dimension (mm):



Connection illumination



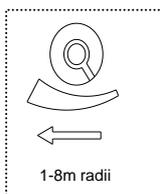
Important: Connection must be done by an electrician or a specialist.

This product is using microwave motion detection function to give dry closing contact signal for the controlled system (this signal is passive dry closing contact signal only.)

This product has a built-in daylight function, and different detection range, hold time, daylight threshold options for customer to choose by potentiometer switch.

When connecting the application unit to P1 and P2, the unit is on when there is no motion detected; and goes off when motion is detected.

Reach setting (Sensitivity)



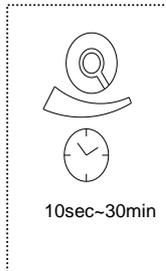
Reach is the term used to describe the radius of the circular detection zone produced on the ground. After mounting the sensor light at a height of 2.5m, turn the reach control completely in anti-clockwise direction to select minimum reach (approx. 1 m radius), and turn the reach control completely in a clockwise direction to select the maximum reach (approx. 8m radius).

The LED indicator will flash when the reach control is rotated. It flashes 1 to 10 times,

representing 1m to 8m for the radius of the detection zone.

NOTE: The above detection distance is gained in the case of a person who is between 1.6m~1.7m tall with middle figure and moves at a speed of 1.0~1.5m/sec. if person's stature, figure and moving speed change, the detection distance will also change.

Time setting

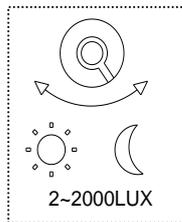


The light can be set to stay ON for any period of time between approx. 10sec (dial turned fully anti-clockwise) and a maximum of 30min(dial turned fully clockwise). Any movement detected during the “ON” time will reset the timer. The LED indicator will flash when adjusting the time setting dial. The number of flashes means the following:

1 flash = 10sec, 2 flashes= 1 min, 3 flashes= 2min, 4 flashes= 5min, 5 flashes=5 min, 6 flashes=8 min, 7 flashes=15 min, 8 flashes=20 min, 9 flashes=25 min,10 flashes=30 min.

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. 2-2000lux. Turn it fully anti-clockwise to select dusk- to-dawn operation at about 2Lux. Turn it fully clockwise to select daylight operation at about 2000 Lux. The knob must be turned fully clockwise when adjusting the detection zone and performing the walk test in daylight.

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 to small	• Check zone setting