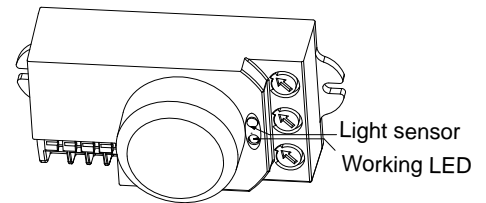


## Microwave sensor SST-MS2 instruction

The Microwave sensor uses ultra-high-frequency radio waves, also known as “microwaves” and the principle of the Doppler Effect to detect motion. The sensor sends out radio waves that bounce off of nearby surfaces and return to the sensor. Motion in the area changes the speed of the waves returning to the sensor. The sensor detects the change and interprets it as occupancy. This causes the sensor to turn ON the load.

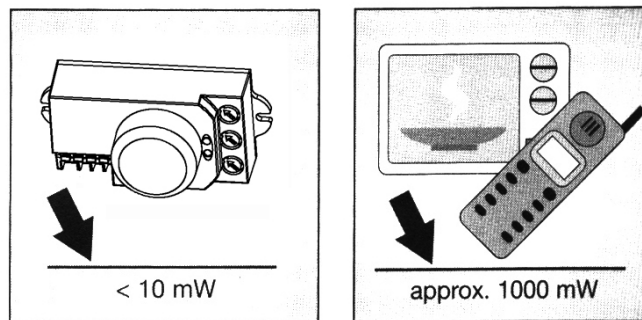


High frequency radio waves can penetrate certain materials, therefore, the microwave sensor can be installed behind a luminaries' plastic or glass lens.

The microwave sensor can be used in a water-tight non-metallic box or water-tight luminaire or lamp for wet location applications.

**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 100<sup>th</sup> of the transmission power of a mobile phone or the output of a microwave oven.**



### Technical specifications

Power supply: 110-130VAC

Installation sit: Indoors, ceiling mounting

HF system: 5.8GHz CW radar, ISM band

reach:1-10m (radii.) , adjustable

time setting: 10sec to 30min

power consumption: approx.0.9W

light control: 2~2000LUX

Power frequency: 50/60Hz

Transmission power: <10mW

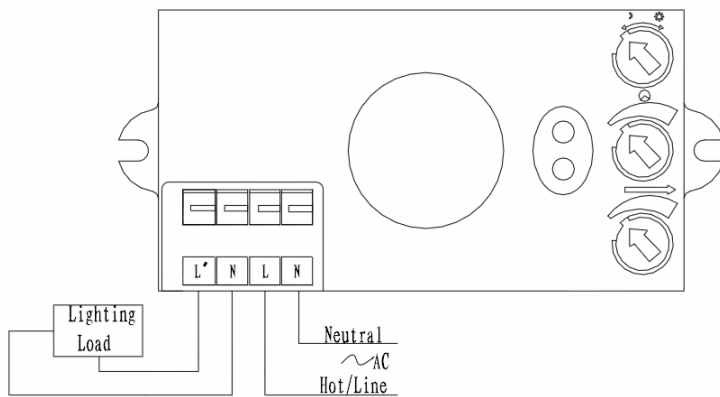
Detection angle: 360°

Rated load: Max.500W/5A Incandescent

or Tungsten load

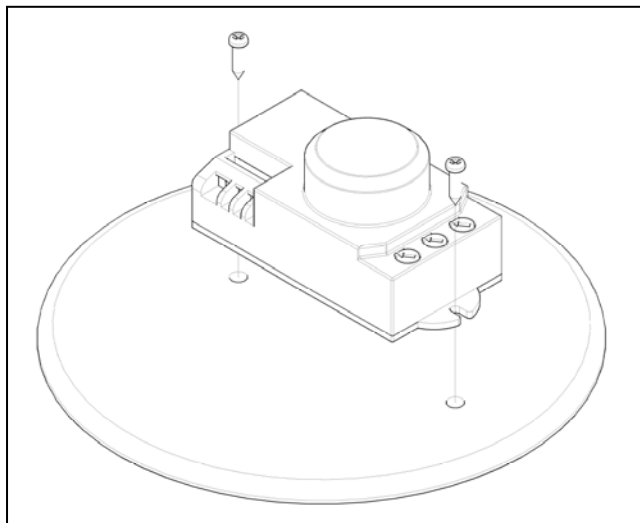
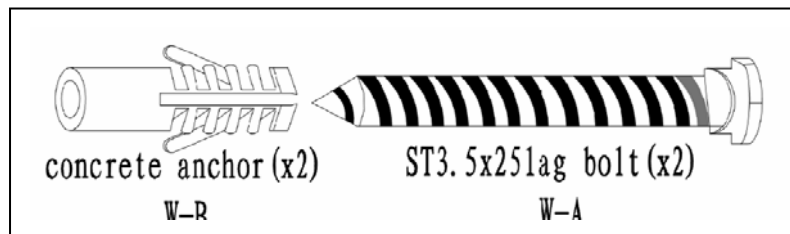
Max.200W/2A Inductive load

## WIRING



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

## MOUNTING OPTIONS



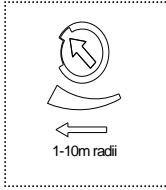
## CAUTION

TURN THE POWER OFF AT THE  
CIRCUIT BREAKER BEFORE  
INSTALLING THE SENSOR



## ADJUSTMENTS

### Reach setting (sensitivity)

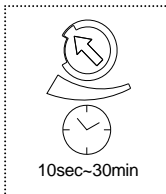


Reach is the term used to describe the radius of the circular detection zone produced on the ground. After mounting the sensor light at a height of 2.5m, turn the reach control completely in anti-clockwise direction to select minimum reach (approx.1 m radius), and turn the reach control completely in a clockwise direction to select the maximum reach (approx.10m radius).

The LED indicator will flash when the reach control is rotated. It flashes 1 to 10 times, representing 1m to 10m for the radius of the detection zone.

**NOTE: The detection distance given here is a rough figure and just for your reference. The deviation may be will about 2 meters. 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.**

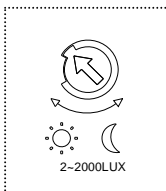
### Time setting



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= 2 min, 4 flashes= 5 min, 5 flashes=8 min, 6 flashes=10 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 2 Lux. Turn it fully clockwise to select daylight operation at about 2000lux. The knob must be turned fully clockwise when adjusting the detection zone and performing the walk test in daylight.

## FCC STATEMENT:

**FCC ID: O3E-SST-MS2**

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio

communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

### 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