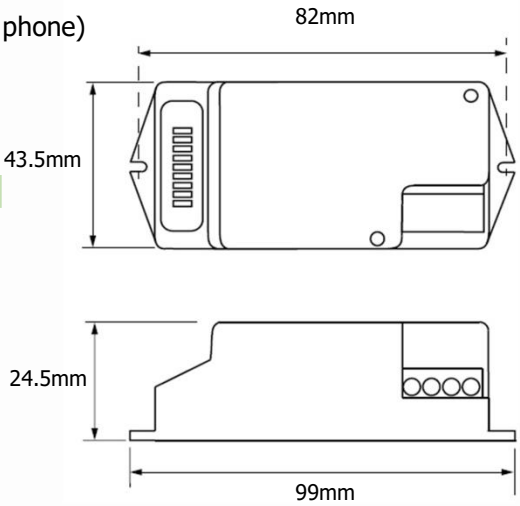
MICROWAVE MOTION SENSOR USER GUIDE
Model Number: OS/10.5, OS/10.5+

Technical Specifications :

Input Voltage	220-240Vac 50Hz
Rated Load	400W (inductive load), 800W (resistive load)
Detection Area	4-6m radius at 2.5m ceiling height (typical)
On time	5sec, 90sec, 5min, 10min, 20min, 30min
Daylight Sensor	Disable, 200lux, 150lux, 100lux, 50lux
Sensor Principle	Microwave motion detector
Microwave Frequency	10.587GHz Continuous Wave
Transmitting Power	<0.5mW (1% of transmitting power of cell phone)
Parasitic Load	<1.7W (daylight/motion sensing only)
Operating Temperature	0°-50°C
IP Rating	IP20



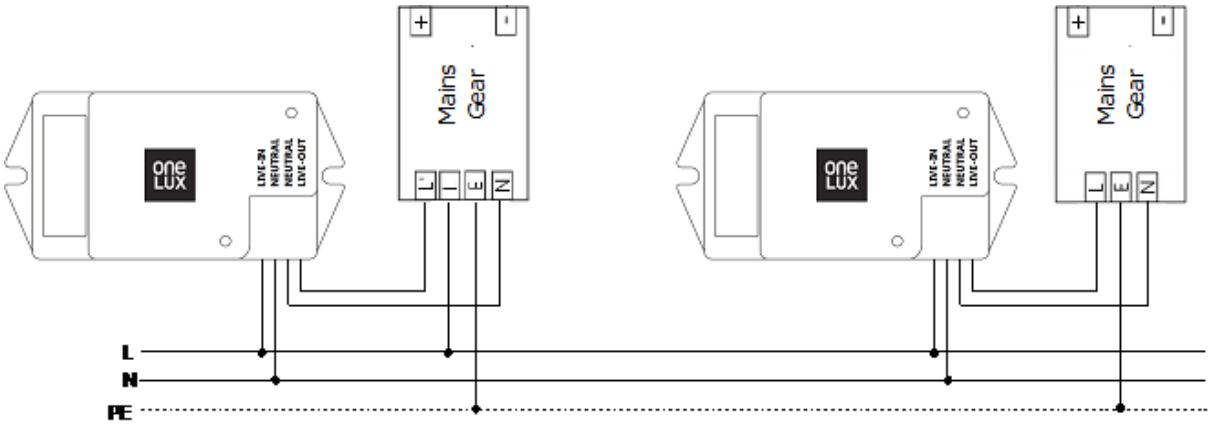
Compliance and Certification :

General Guidelines for Installation :

1. Specifications for detection range and daylight sensor levels are typical.
   Suitability should be determined for sensitive applications.
2. The motion sensor should be installed by a qualified electrician.
   Ensure that electricity supply is switched off before installing or servicing the product.
3. The sensor should not be modified in any way.
   Any modifications to this product will immediately invalidate any warranties issued.
4. The company does not accept responsibility for any consequences resulting from
   unauthorised modification of the product.
5. The sensor should be connected to a stable power supply of 220-240Vac 50Hz.
6. Microwaves cannot pass through metal or brick walls thicker than 20cm.
   They will pass through thinner walls but there will be some attenuation.
7. Installation inside a glass or plastic housing will result in a reduction of sensitivity.
   Expect a reduction of approximately 20% for every 3mm of thickness.

Installation and Wiring :

The sensor is designed for installation 1-6m in height with a suggested mounting height of 1-1.8m (wall mounting) and 2.5-6m (ceiling mounting). For connecting one or several mains gears to one sensor, refer to the wiring diagram below:



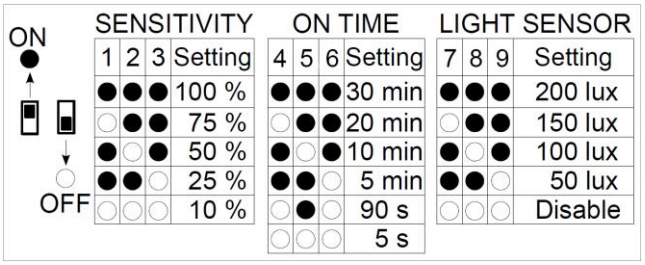
Document Number: 19384/3

100-hour burn-in mode for fluorescent lamps (OS/10.5+ only) :

Rapidly cycle the mains supply off and on three times within 3 seconds to activate the 100-hour burn-in mode for fluorescent lamps (the red LED on the sensor flashes and the fixture will not power off to indicate successful set-up). Lamps will be 100% on for 100 hours and then automatically reverts to sensor mode after that. This is crucial to secure the lifetime of a fluorescent lamp when a new fixture is installed or an old lamp is replaced. This 100-hour burn-in can be cancelled by turning off the power.

Settings :

Sensitivity, on time, and daylight settings can be configured via the DIP switches on the sensor. Note that units are supplied with all switches set to off. Reducing the sensitivity will reduce the detection area.



1) SENSITIVITY: Refers to the typical detection range sensitivity. Based on a person who is between 1.6m/1.7m tall moving at a speed of 0.1-1m/sec. (Detection range varies depending on the height and stature of a person).

I : 100% - up to 6m radius
II : 75% - up to 5m radius
III : 50% - up to 4m radius
IV : 25% - up to 3m radius
V : 10% - up to 2m radius

2) ON TIME: Refers to the time period the lamp remains on after no motion is detected. Note that after the light switches off, it takes approximately 5 seconds before the sensor starts detecting motion again. The Live-Out terminal is active 1.2 seconds after the sensor is powered up. When energised for the first time, there is a stabilisation period of approximately 15 seconds before normal operation starts.

I : 30 minutes
II : 20 minutes
III : 10 minutes
IV : 5 minutes
V : 90 seconds
VI : 5 seconds

3) LIGHT SENSOR: This can be configured to only allow the lamp to illuminate below a defined ambient brightness threshold. Settings are typical and as follows:

I : 200 lux
II : 150 lux
III : 100 lux
IV : 50 lux
V : Disable - When set, the light sensor will switch on the lamp regardless of ambient light levels

FAQ :

Question	Cause	Remedy
The load does not turn on.	Incorrect light sensor setting.	Adjust light sensor setting.
	Load has failed.	Check or replace load.
	Power is switched off.	Check mains power is present.
The load does not turn off.	Continuous movement in the detection area.	Check sensitivity setting.
	The light fixture (containing sensor) is installed in an area too close to reflective surfaces; i.e. metal, glass or concrete walls.	(1) Make sure installation area is suitable with at least 30cm space between lamp and surrounding reflective surfaces; (2) Reduce sensitivity (detection area).
	The light fixture (containing sensor) is fixed to a vibrating surface (e.g., suspended luminaire).	Check installation surface is stable and free from any vibrations.
The load does not turn on despite movement.	Speed of moving object is not in the specified range.	Check detection area setting.
	Detection radius is too small.	

Document Number: 19384/3