

# GREEN BROOK ELECTRICAL

## 'Orion Range'

### Infra-red Microwave Presence Detector- Adjustable Model: ODM201

#### Important Safety Instructions

- Please read these instructions carefully before installation and keep safe for future reference.

#### IMPORTANT

This product should be installed by a competent person and in accordance with the current IET Wiring Regulations and Building Regulations.

**If in doubt, consult a qualified electrician.**

- Always turn off the mains supply before commencing work.



Our range of PIR microwave presence detectors are designed to reduce the amount of time lighting is left on unnecessarily, for example if an area is unoccupied or if there is sufficient natural light.

A presence detector monitors the detection zone for occupancy, using radio waves in the microwave band (5.8 GHz) if a person is sensed then the detector will automatically turn the lighting on. When the area is vacated, the lighting will turn off after a preset time delay. Most of our microwave sensors have a built in light level (lux) sensor which will keep the lighting off if there is enough natural light available.

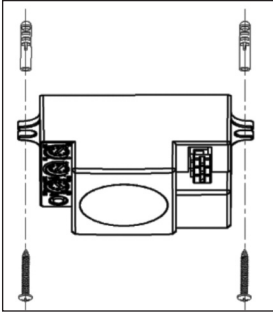
Controlling lighting with a presence detector can save up to 60% of lighting energy costs dependent on occupancy behaviour and the amount of natural light available; our microwave sensors can also be used to control heating and ventilation.

As this detector uses microwaves, detection is possible through plastic, glass and thin walls such as office partitions. It will not detect movement through brick, concrete or metal.

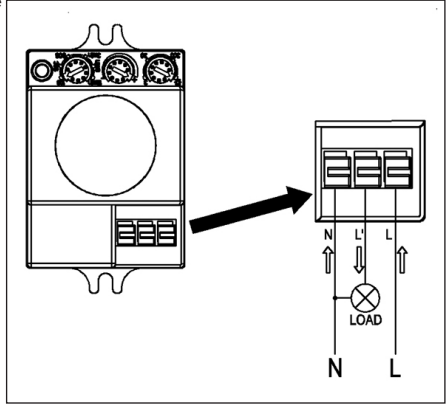
#### INSTALLATION

**Switch the mains supply OFF first to prevent electric shock.**

1. Decide on mounting position of sensor in and screw into position using the two mounting lugs at either end. (ensure there is no wiring/gas/water services directly behind the screws) refer to Dia:1.
2. Connect the mains in and load out wires according to Dia:2.



Dia:1

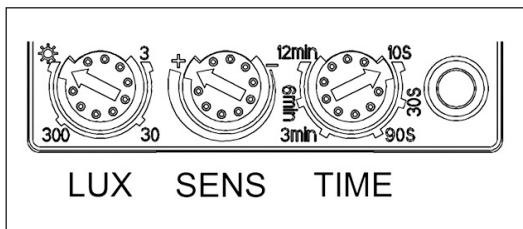


Dia:2

**Note:** Please refer to Data Sheet on the GreenBrook website - [www.greenbrook.co.uk](http://www.greenbrook.co.uk) for wiring sensor in parallel.

#### TESTING

1. Turn 'Time' control fully anti-clockwise, 'Lux' control fully clockwise and 'Sens' control fully clockwise refer to Dia:3.



Dia:3

2. Re-connect mains supply, allow 30 seconds for the sensor to warm-up, and then perform a walk-by in front of the sensor; lamp should turn on and stay on for approximately 10 seconds, and will go off if no further movement is detected.

## ADJUSTING THE 'LUX' CONTROL

1. Turning Lux control fully clock wise, the sensor will operate in both daylight and darkness.
2. Turning Lux control fully anti-clockwise, the sensor will operate in darkness only.
3. Set control to operate at your required daylight level.

## ADJUSTING THE 'TIME ON' CONTROL

1. Turning the time control fully anti-clock wise will set the on duration to 10 seconds +/- 3 seconds.
2. Turning the time control fully clock wise will set the on duration to 12 minutes +/- 1 minutes.

## ADJUSTING THE 'SENSITIVITY' CONTROL

1. Turning the sens control fully anti-clock wise will set the sensitivity to minimum (approx. 1 meter detection cone).
2. Turning the sens control fully clock wise will set the sensitivity to maximum (approx. 8 meter detection cone).

## TROUBLE SHOOTING



### Light not coming on

- Check that lamp is good.
- Check there is nothing obscuring the microwave sensor.

### Intermittent operation

- Check there are no curtains that can move in the wind.
- Check there are no heating vents nearby.

## TECHNICAL INFORMATION

Rated Voltage:	230V~50Hz
IP Rating:	IP20
Ambient Light:	<3-2,000 LUX (Adj)
Time Delay:	Min 10 sec ± 3 sec Max 12 min ± 1 min
Rated Load:	Max 1200W  Max 300W  /LED
Detection Range:	360° /180°
Detection Distance:	Wall = 5 - 15M adj Ceiling = 1 - 8M (radius) adj
Transmission Power:	<0.2mW
Power Consumption:	0.9W approx
Installation Height:	Wall = 1.5 - 3.5M Ceiling = 2 - 8M
Detection Moving Speed:	0.6 - 1.5m/s
Dimensions:	54.5 x 39.4 x 25m
Conforms To:	BS EN60669

### NOTE:

#### Product & Packaging Disposal

When disposing of this item and its packaging please follow local regulations and use an appropriate waste disposal centre.

See GreenBrook website for further details.

#### GUARANTEE

Your GreenBrook Microwave Presence Detector  
ODM201 is guaranteed for 1 year  
from the date of purchase.  
This is in addition to your statutory rights.

PLEASE KEEP THESE INSTRUCTIONS  
SAFE FOR FUTURE REFERENCE



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