

GREEN BROOK ELECTRICAL

'Orion Range'

Infra-red Microwave Presence Detector - Programmed Settings Model: ODM202

Important Safety Instructions

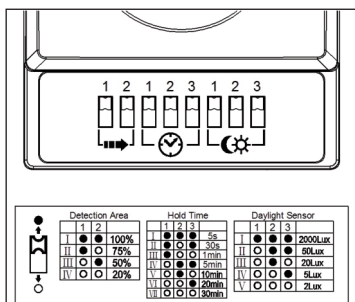
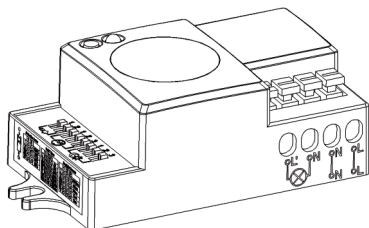
- Please read these instructions carefully before installation and keep safe for future reference.

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.

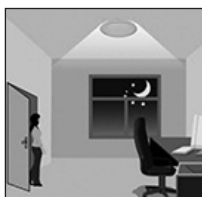
Controlling lighting with a presence detector can save up to 60% of lighting energy costs dependent on occupancy behaviour and the amount of natural light available; our microwave sensors can also be used to control heating and ventilation.

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.

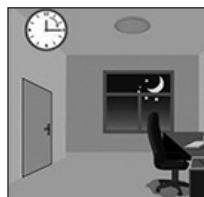
INSTALLATION



With ambient light more than the setting value, the lamp does not switch on when someone enters the room.



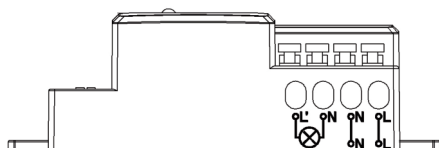
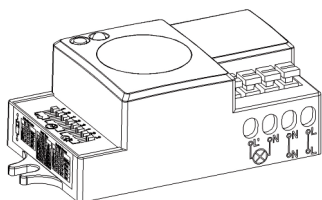
With ambient light less than daylight threshold, the lamp will be on 100% when someone enters the room.



After the hold time, the light switches off automatically when no movement is detected.

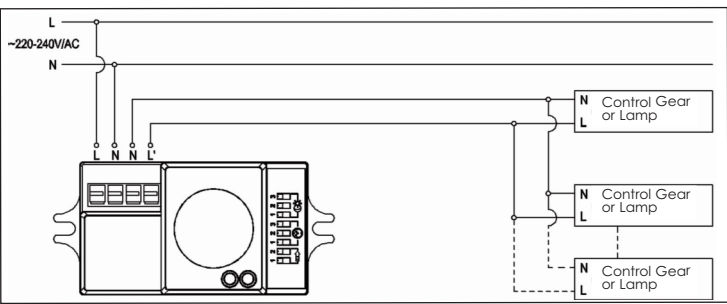
Switch the mains supply OFF first to prevent electric shock.

- 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.



Dia:1

- Connect the mains in and load out wires according to Dia:1 and Dia:2.



Note: Please refer to Data Sheet on the GreenBrook website - www.greenbrook.co.uk for wiring sensor in parallel.

TESTING

- Slide all 9 slide switches to the 'Up' position .
- 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 5 seconds, and will go off if no further movement is detected.

ADJUSTING THE 'LUX' CONTROL



Table:1

	1	2	3	
I	●	●	●	2000Lux
II	○	●	○	50Lux
III	○	●	○	20Lux
IV	○	○	●	5Lux
V	○	○	○	2Lux

- Lux levels can be set between 2000 Lux (daylight) and 2 Lux (night), using a combination of slide switches, see Table 1.
- Set control to operate at your required daylight level.

ADJUSTING THE 'TIME ON' CONTROL



Table:2

	1	2	3	
I	●	●	●	5s
II	●	○	●	30s
III	●	○	○	1min
IV	○	●	●	5min
V	○	●	○	10min
VI	○	○	●	20min
VII	○	○	○	30min

- Time control can be adjusted between 5 seconds and 30 minutes, using a combination of slide switches, see Table 2.
- Set control to operate at your required time period.

ADJUSTING THE 'SENSITIVITY' (DETECTION AREA) CONTROL



Table:3

	1	2	
I	●	●	100%
II	●	○	75%
III	○	●	50%
IV	○	○	20%

- Sensitivity can be adjusted between a detection cone of 1 meter (20%) and a detection cone of 8 meters (100%) using a combination of slide switches, see Table 3.
- Set control to operate at your required time period.

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:	2 LUX, 5 LUX, 20 LUX, 50 LUX, 2000 LUX (choice)
Transmission Power:	<0.2mW
HF System:	5.8GHz CW radar, ISM band
Hold Time:	5s, 30s, 1min, 5min, 10min, 20min, 30min (choice)
Rated Load:	Max 1200W Max 300W /LED
Detection Range:	360° /180°
Detection Area:	20%,50%,75%,100% (choice)
Detection Distance:	Wall = 5 - 15M adj Ceiling = 1 - 8M (radius) adj
Power Consumption:	0.9W approx
Installation Height:	Wall = 1.5 - 3.5M Ceiling = 2 - 8M
Detection Moving Speed:	0.6 - 1.5m/s
Dimensions:	63.5 x 37 x 25mm
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 ODM202 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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