

# GREEN BROOK ELECTRICAL

'Orion Range'

## Infra-red Motion Detector - IP65 Model: OD103

### 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.

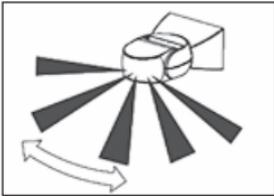
*If in doubt, consult a qualified electrician.*

- Always turn off the mains supply before commencing work.



This product uses an infra-red heat detector. The detector senses 'warmth movement' in the surrounding area when it is dark. When movement is detected the sensor is activated and triggers the connected load. It has a built in photo-cell that can identify day and night.

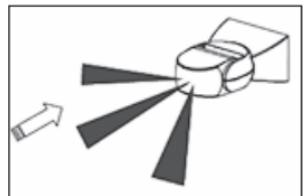
### FIELD OF DETECTION



Good Sensitivity



Detection from Above

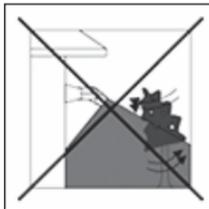
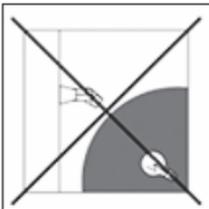


Poor Sensitivity

### INSTALLATION

As the detector responds to changes in temperature, avoid the following situations:-

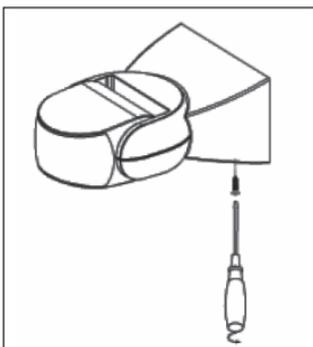
- Avoid pointing the detector towards objects with highly reflective surfaces, such as mirrors etc.
- Avoid mounting the detector near heat sources, such as heating vents, air conditioning units, lights etc.
- Avoid pointing the detector towards objects that may move in the wind, such as curtains, tall plants etc.



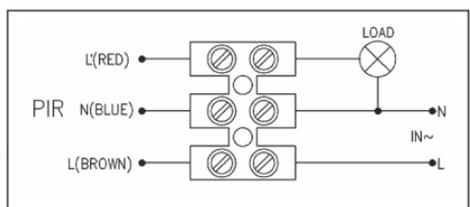
**Switch the mains supply OFF first to prevent electric shock.**

1. Remove the rear cover by removing the screw and pulling off cover, refer to Dia:1.
2. Connect the mains in and load out cable according to Dia: 2 feeding cable through the silicon grommet.

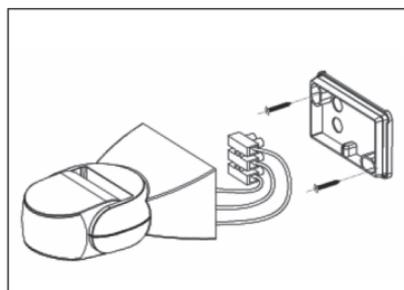
Dia:1



Dia:2



- Secure the sensor back plate to the wall using two wood screws (ensure there is no wiring/gas/water services directly behind the screws) Dia:3.

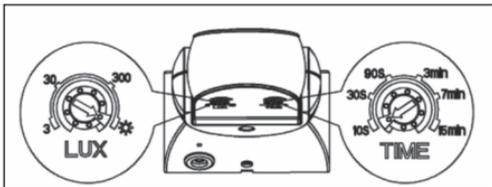


Dia:3

- Position sensor onto back plate and secure using the screw removed in step 1.

## TESTING

- Turn 'Time' control fully anti-clockwise and 'Lux' control fully clock wise refer to Dia: 4.
- 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.



Dia:4

## ADJUSTING THE 'LUX' CONTROL

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

## ADJUSTING THE 'TIME ON' CONTROL

- Turning the time control fully anti-clock wise will set the on duration to 10 seconds +/- 3 seconds.
- Turning the time control fully clock wise will set the on duration to 15 minutes +/- 2 minutes.

## TROUBLE SHOOTING

### Light not coming on

- Check that lamp is good.
- Check there is nothing obscuring the PIR 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:	IP65
Ambient Light:	<3-2,000 LUX (Adj)
Time Delay:	Min 10 sec ± 3 sec Max 15 min ± 2 min
Rated Load:	Max 1200W ☀ Max 300W ⇄ /LED
Detection Range:	180°
Detection Distance:	12M max (<24°C)
Working Temp:	-20° - + 40°C
Working Humidity:	<93%RH
Power Consumption:	0.5W approx
Installation Height:	1.8 - 2.5M
Detection Moving Speed:	0.6 - 1.5m/s
Dimensions:	119.5 x 80 x 51.5mm

### GUARANTEE

Your GreenBrook Motion Detector IP65  
OD103 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



EMC



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