**Installation Instructions for:**

**Microwave Motion Sensor**

### Technical Specifications

**PRODUCT TYPE:** Microwave Motion Sensor  
**OPERATING VOLTAGE:** 220/240V ~ 50Hz/60Hz  
**HF SYSTEM:** 5.8GHz CW radar  
**TRANSMISSION POWER:** <1mW  
**RATED LOAD:** 800W (resistive load)  
400W (inductive load)  
**DETECTION ANGLE:** 30~150°  
**POWER CONSUMPTION:** Approx 0.9W  
**REACH:** 400W (inductive load)  
1-5m (radi), adjustable  
**TIME SETTING:** 5s~25min  
**MOUNTING:** Indoors, ceiling & walling mounted  
**LIGHT CONTROL:** 2~30 LUX  
**Working temperature:** 0~50°C

The sensor is an active motion detector; it emits a high-frequency electromagnetic wave 5.8GHz and receives its echo. The sensor detects the change in echo from movement in its detection zone. A microprocessor then triggers the switch light ON command. Detection is possible through doors, panels of glass or thin walls.

**NOTE:** the high-frequency output of this sensor is <1mW; approximately just 1% of the transmission power of a mobile telephone or the output of a microwave oven.

**This sensor is suitable for indoor use, and is also designed for installation at 3~5m in height. While sensor use with Hytronik sensorDIM ballast or other dimming ballast, please keep the sensor antenna module from the ballast and lamp filament by at least 80mm.**

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### Section 1 Installation

**ENSURE THAT THE ELECTRICITY SUPPLY IS SWITCHED OFF COMPLETELY BEFORE INSTALLING OR SERVICING THIS PRODUCT**

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### Section 2 Settings

#### Detection range:

This determines the effective range of the motion detector and is set by DIP switches at the sensor itself, refer to figure. Note that reducing the sensitivity will also narrow the detection range. The following settings are available:

- **I** - maximum range up to 5m  
- **II** - range up to 3.5m  
- **III** - range up to 2m  
- **IV** - range up to 1.5m  
- **V** - range up to 1m

**Hold time:**

This determines the time the fitting remains at 100% level on motion detector and is set with DIP switches at the sensor itself, refer to figure. The walk test setting is useful when installing the fitting to establish correct operation and range. The following settings are available:

- **I** - Walk test mode 5s
- **II** - 30s
- **III** - 3 minutes
- **IV** - 5 minutes
- **V** - 15 minutes
- **VI** - 25 minutes

**Daylight sensor:**

This setting holds off the 100% light output should there be sufficient daylight and is set using DIP switches at the sensor itself, refer to figure. The following settings are available:

- **I** - 2 lux darkness operation only  
- **II** - 5 lux darkness operation only  
- **III** - 20 lux twilight operation  
- **IV** - 30 lux twilight operation  
- **V** - *daylight, photocell disabled*

*In daylight setting the lamp(s) will always be on with motion detected and operate at 100% light output, even in bright daylight*

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### Section 3 Troubleshooting

<table>
<thead>
<tr>
<th>MALFUNCTION</th>
<th>CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
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<tr>
<td>The load will not work</td>
<td>Incorrect light-control setting selected</td>
<td>Adjust setting</td>
</tr>
<tr>
<td></td>
<td>Load faulty</td>
<td>Replace load</td>
</tr>
<tr>
<td></td>
<td>Mains switch OFF</td>
<td>Switch ON</td>
</tr>
<tr>
<td>The load is always on</td>
<td>Continuous movement in detection zone</td>
<td>Check zone setting</td>
</tr>
<tr>
<td>The load is on without any identifiable movement</td>
<td>The sensor is not mounted for reliably detecting movement</td>
<td>Securely mount enclosure</td>
</tr>
<tr>
<td>Movement occurred, but not identified by the sensor (movement behind wall, movement of small object in immediate lamp vicinity etc.)</td>
<td>Check zone setting</td>
<td></td>
</tr>
<tr>
<td>The load will not work despite movement</td>
<td>Rapid movements are being suppressed to minimise malfunctioning or the detection radius is too small</td>
<td>Check zone setting</td>
</tr>
</tbody>
</table>

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**PLEASE READ THESE INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION AND RETAIN THIS LEAFLET IN A KNOWN AND SAFE PLACE FOR FUTURE REFERENCE**

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**IMPORTANT**

ENSURE THAT THE ELECTRICITY SUPPLY IS SWITCHED OFF COMPLETELY BEFORE INSTALLING OR SERVICING THIS PRODUCT.