PRODUCT INFORMATION

Ideal for energy saving this a low power LED bulkhead lamp with built-in microwave sensor control. High level output with 96 high brightness LED lamps. Rated load is 15 Watt which is equivalent to a 150 Watt incandescent light source. The low power microwave radar detection uses only 0.2mW power which is harmless to humans. It has a range from 1 to 10M and is immune to temperature, humidity, noise, and pollution. It is ideal for ceiling installation and is simple to install. Suitable for halls, corridors, stairwells, bathrooms and similar locations. The sensor will detect human presence and switch the light on for a period which can be pre-selected via the internal timing control from 6 seconds to 12 minutes. It can also be adjusted to work for a range of up to 1-10 metres which can also be pre-selected using the dedicated internal control. There is a third internal adjustment that allows the unit to operate in variable lighting levels from 10 to 2000Lux - (night, day). The sensor will operate through glass, plastic and wood and should be adjusted at installation to achieve the required sensitivity.

IP 44

Uses tough, high quality PC diffuser, resistant to fracture and to ultraviolet light to limit discolouring.

LED lamps are 80% more efficient than incandescent bulbs and 50% more efficient than fluorescent bulbs.

PARTS

SPECIFICATIONS

Rating: 220-240V/AC
Line frequency: 50Hz
HF system: 5.8GHz CW, ISM wave band
Rated load: 15W Max.
Transmission power: <0.2mW
Luminous flux: 1000lm
Time setting: 6sec to 12min (adjustable)
Detection angle: 360°

Detection range: 1-10m (radii.) (adjustable)
Light-control: 10-2000LUX (adjustable)
Standby power: <0.9W
Installation height: 2.5m~3.5m (ceiling mount)
Net weight: 1.03 kg
Lamp part
LED quantity: 96PCS
LED: T5050
Warning!
1. Please keep away from the children
2. Please avoid fire/high temperature/damp places for installation.
3. Ensure that mains power is switched off during installation of the wiring.

Note: tools required

- Pencil
- Electric drill
- Hammer
- Screwdriver

www.energie4u.co.uk
• Step 1: Unscrew the plastic cover to gain access to the adjustment controls

![Fig. 1](image.png)

• Step 2: Turn the controls for the required settings (Fig. 2)

![Fig. 2](image.png)

**Detection range setting (sensitivity)**

Adjust the Reach control to set the radius of operation of the microwave detection zone. An ideal ceiling mount height is 2.5m, turn the Reach control fully anti-clockwise to select the minimum reach (approx. 1 metre), and fully clockwise to select maximum reach (approx. 10 metres).

**NOTE:** The sensitivity assumes a person to be between 1.6m~1.7m tall moving at a speed of 1.0~1.5m/sec

Adjust the sensitivity to suit the local conditions. Avoid setting to the maximum value as it may react to curtain movement and small animals. Also be aware of power grid and electrical equipment that may interfere with the correct operation of the sensor. Lowering the sensitivity may improve the operation in situations where there may be electrical interference.

**Time setting**

The light can be set to stay ON for any period of time between approx. 6 sec (turned fully anticlockwise) and a maximum of 12 min (turned fully clockwise). Any movement detected before this time has elapsed will re-start the timer. It is recommended to select the shortest time when adjusting the detection sensitivity.
NOTE: There will be a delay of approximately 1 second after the light switches OFF before movement can be detected again.

Light level control

The chosen light threshold can be set from approx. 10-2000lux. Turn it fully anti-clockwise to select dusk operation at about 10 lux. Turn it fully clockwise to select daylight operation at about 2000lux. Turn the control fully clockwise when adjusting the motion detector sensitivity.

Note: To avoid damaging the controls, please do not attempt to adjust past the limit stops. The range of adjustment is limited to 270°.

• Step 3: Ensure that there are no pipes or cables of any sort behind the panel where the light is to be located. Hold the base to the ceiling and mark the locations of the fixing holes with a pointed instrument such as a screwdriver.

• Step 4: Drill holes at the locations marked previously and fit rawl plugs as necessary.

• Step 5: Feed the power cable from the lighting circuit through the opening in the housing and connect to the terminal points ensuring correct polarity etc.

WARNING!

Before drilling, please ensure there are no pipes or electrical wires in the way that can be accidentally damaged by drilling. Wear suitable protective glasses and dust masks.

• Step 5: Feed the power cable from the lighting circuit through the opening in the housing and connect to the terminal points ensuring correct polarity etc.
• Step 6: Fix the base with the screws supplied

![Concrete ceiling](Fig.7)

• Step 7: Attach the cover to the base with the screws supplied

![Concrete ceiling](Fig.8)

**TROUBLESHOOTING**

<table>
<thead>
<tr>
<th>Fault</th>
<th>Failure cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light does not come on</td>
<td>Lux and/or detection range set incorrectly</td>
<td>Adjust settings</td>
</tr>
<tr>
<td></td>
<td>The power is off</td>
<td>Turn the power on</td>
</tr>
<tr>
<td></td>
<td>Faulty unit</td>
<td>Repair or replace</td>
</tr>
<tr>
<td>Light always on</td>
<td>There is a continuous motion in the detection area</td>
<td>Check for any disturbance</td>
</tr>
<tr>
<td></td>
<td>Lamp not mounted securely</td>
<td>Check mounting</td>
</tr>
</tbody>
</table>

www.energenie4u.co.uk
NOTE: the high-frequency output of this sensor is <0.2mW. This is just one 5000th of the transmission power of a mobile phone or a microwave oven.

Transmission power: <0.2mW

Detection of human movement

Light illuminates when motion is detected

Application

1. Always remove ALL power when working on the unit
2. Ensure installation and adjustment is carried out by suitably qualified personnel.
3. Improper installation or use may invalidate product warranty

Warning!
FEATURE OVERVIEW
Low Power LED bulkhead lamp with built-in microwave motion sensing.
50% energy savings compared with traditional fluorescent lamps.
Long Life - 30000hrs, 3 times longer than fluorescent lamps.
Instant start.
Not dimmable.
Negligible UV and IR radiation output.
High sensitivity microwave sensor that detects human movement and switches the light on and off automatically.
Built-in day-light sensor.
Adjustable time delay and sensor sensitivity.

www.energenie4u.co.uk
Energenie is a trading name of Sandal plc,
Claremont House, Deans Court, Bicester,
Oxon, OX26 6BW