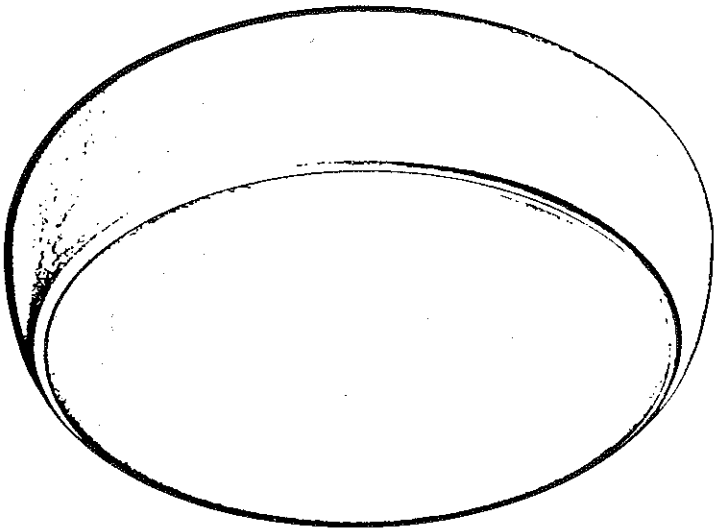
LEADING LIGHTING



LED AMENITY BULKHEAD

17W

LUN17LEDWO (STANDARD LED)
LUN17LEDWO-EM (LED EMERGENCY)
LUN17LEDWO-MW (LED MICROWAVE)
LUN17LEDWO-MWEM (LED MICROWAVE/EMERGENCY)
LUN17LEDWO-MW-HL (LED MICROWAVE 10%–100%)
LUN17LEDWO-MWEM-HL (LED MICROWAVE/EMERGENCY 10%–100%)

230/240V AC-50Hz

LED IP65 RoHS COMPLIANT 2002/95/EC

PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLATION AND RETAIN FOR FUTURE REFERENCE.

Warning

Please read these instructions carefully before commencing any work.

This unit must be fitted by a competent and qualified electrician.

Install in accordance with IEE Wiring regulations and current Building Regulations.

To prevent electrocution switch off at mains supply before installing or maintaining this fitting. Ensure other persons cannot restore the electrical supply without your knowledge.

If you are in any doubt, please consult a qualified electrician.

If replacing an existing fitting, make a careful note of the connections.

This system contains non-replaceable parts and cannot be serviced. If damage occurs the part should be scrapped.

This product is not suitable for dimming.

Standard model suitable for use with PIR
DO NOT USE PIR, with any of the Microwave Sensor products.
DO NOT USE TIME SWITCH, with any of the Emergency products.

Layout

- Plan the desired layout of this fitting carefully, ensuring the cables will reach the distance between the junction box and the light fitting.
- Avoid locating any cables in positions that would cause a hazard. Position cables and junction boxes (not supplied) away from areas where they may be at risk from being cut, trapped or damaged.
- The mains supply cable must have a minimum cross sectional area of 1.0mm^2.
- Cables must be protected using suitable conduit or plastic trunking. This product has 4 conduit entry points in the side of the moulding.
- The products can be wall or ceiling mounted. If wall mounting ensure that the power supply is at the bottom.

Installation

1. Hold the base of the fitting and gently turn the diffuser and decorative trim anti-clockwise and lift off, or remove the hex head fixing screws and gently lift the lid off.

2. Drill holes in the back of your fitting for your fixing screws, take care and drill gently to ensure a clean hole through. Use a drill bit sized appropriately to your fixing screws. Holes are already provided in the steel luminaires.

3. Using the back of your fitting as a template, mark the position of your fixing holes on your mounting surface.

4. Prepare the holes in your mounting surface as appropriate for your fixings.

5. Pierce the cable grommet in the back of your fitting making a hole just large enough the make a tight fit around the incoming mains cable.

6. Thread the cable through the grommet and offer the fitting to the ceiling/wall.

7. Secure the fitting in place. Note, if the protection against ingress of moisture is required, the heads of screws must be covered with a silicone or similar sealant.

8. Check that the grommet is still correctly fitted in the cable entry hole and around incoming cable.

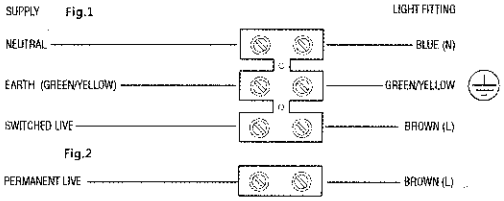
9. Make the electrical connections to the gear tray according to the symbols, adjacent to the connector block, brown to live (L) Blue to neutral (N) and earth green & yellow (E).

10. Offer the diffuser and decorative trim onto the top of the fitting and turn clockwise until they are held securely or refit the front screws into the luminaires.

11. Restore the power and switch on.

Wiring

- Connect the cable to the terminalblock as follows:
- Electrical connections to the terminal block (see Fig.1) for LUN17LEDWO & LUN17LEDWO-MW



- Electrical connections to the terminalblock (see Fig. 2) for the emergency versions LUN17LEDWO-EM & LUN17LEDWO-MWEM

CHECK THAT...

- You have correctly identified the wires
- The connections are tight
- No loose strands have been left out of the connection block.

Warranty

In place of any other condition or warranties, whether imposed by statue or implied by common law we undertake as follows:

1) We will repair or if neccessary replace free of charge any luminaires manufactured by us that is found by us to be defective and brought to our attention within 12 months of supply.

   This warranty is only valid if the luminaire has remained unmodified and installed and used as per this instruction leaflet and is returned to us, carriage paid and packaged appropriately. (complete with emergency test record where relevant).

2) We shall not be liable for any consequential loss or damage caused directly or indirectly by any defect or otherwise.

   All details in this leaflet are given for guidance only and do not constitute a contract.

   We reserve the right to alter the specifications of products without notice.

Maintenance

We recommend cleaning with a soft dry cloth.
Do not use solvents or abrasive cleaners as these could damage the finish.

Safety information

For your safety, always switch off the supply before cleaning.

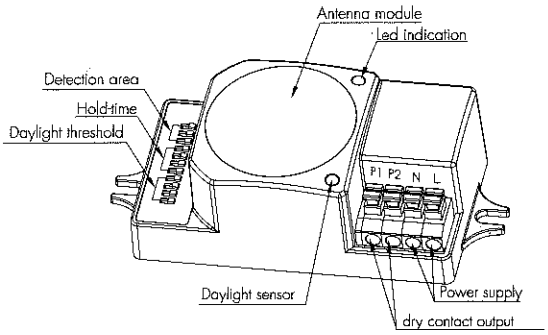
Recycling advice

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

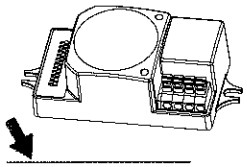
User Manual of Microwave Motion Sensor

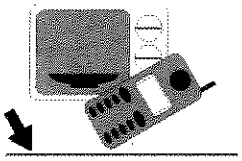
Technical Specifications

PRODUCT TYPE:	**Microwave Motion Sensor**
OPERATING VOLTAGE:	**220/240V ~ 50Hz / 60Hz**
HF SYSTEM:	**5.8GHz CW radar**
TRANSMISSION POWER:	**<0.2mW**
RATED LOAD:	**≤48VDC(≤2A)**
	≤277VAC(≤3.6A)
DETECTION ANGLE:	**30~150°**
POWER CONSUMPTION:	**Approx 0.5W**
DETECTION RANGE:	**12~18 meters in diameter, adjustable**
TIME SETTING:	**5s ~ 30 min.**
MOUNTING:	**Indoors, ceiling & walling mounted**
LIGHT CONTROL:	**2~50LUX, disable**
Working temperature:	**-35 ~ +70℃**



The sensor is an active motion detector; it emits a high-frequency electro-magnetic 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 glasses thin walls.





NOTE:the high-frequency output of this sensor is <0.2mW;approximately just 1‰ of the transmission power of a mobile telephone or the output of a microwave oven.

IMPORTANT

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

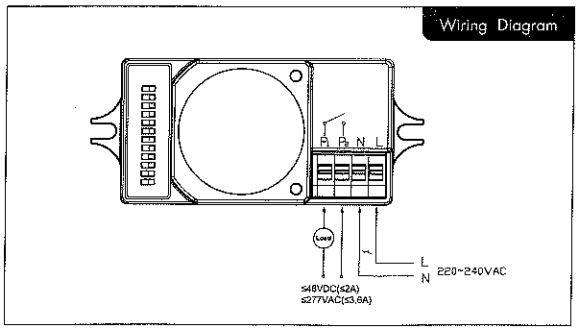
SECTION 1 INSTALLATION & WIRING

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

The sensor works with a main voltage of 220-240V AC 50/60 Hz.100-120V version is available on request.

The sensor has a 4-wire electrical interface:

N(neutral / 230 V AC)
L (phase / 230.V AC)
P1,P2(switched phase)



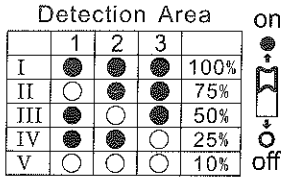
1.1 This sensor is suitable for indoor use, and is also designed for installation at 3~8m in height.

SECTION 2 SETTINGS

Detection Area:

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:

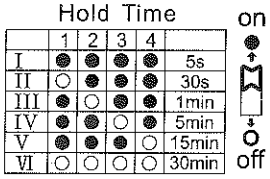
I - Detection range 100%
II – Detection range 75%
III – Detection range 50%
IV – Detection range 25%
V – Detection range 10%



Hold time:

This determines the time the fitting remains at 100% level on motion detection 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:

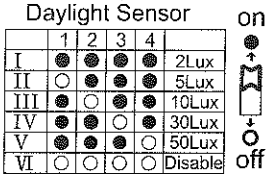
I – 5s
II – 30s
III – 1 minutes
IV – 5 minutes
V – 15 minutes
VI – 30 minutes



Daylight sensor:

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

I – 2Lux darkness operation only
II – 5Lux twilight operation
III – 10Lux twilight operation
IV – 30Lux daylight operation
V – 50Lux daylight operation
VI – Photocell Disable



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

SECTION 3 FUNCTIONS

3.0 100H burn-in mode for fluorescent lamp

With simple operation, rapidly turn off/on the fixture 3 cycles within 3 sec. (the green LED on the sensor as well as the fixture will blink 3 times to indicate the success of setup), lamp will be 100% on for 100 hours, and then automatically goes to sensor mode after 100 hours. This is crucial to secure the lifetime of fluorescent lamp, when new fixture is installed, or old lamp is replaced.
This 100h burn-in feature can be cancelled by turn off/on the fixture 1 cycle within 1sec.

3.1 Set daylight threshold freely

With simple operation, rapidly turn off/on the fixture 2 cycles within 2 sec:
a. the green LED on the sensor will flash slowly for 5 seconds, meanwhile the fixture blink twice.
b. the daylight sensor measures and remembers the surrounding lux for 1 sec.
c. the fixture and green LED will be on for 10s to indicate the success of learning.
This feature enables the fixture to function well in any real application circumstance, where the daylight that penetrate into fixture may vary a lot.
The latest surrounding lux value overwrites previous lux value learned.
Both the setting on DIP switch and the learned ambient lux threshold can overwrite each other. The latest action stays in validity.

SECTION 4 TROUBLE SHOOTING

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