

## CLEANING:

Clean this fitting only with a soft dry cloth.  
Do not use any chemical or abrasive cleaners.

## BATTERY REPLACEMENT:

If after routine operation check, the lamp does not remain lit for the three hour period, a new battery pack may be required.

1. Switch off the electricity at the mains (both permanent live and switch live) and allow batteries to fully discharge then reconnect to supply and allow charging for 24 hours.
2. Test again for 3 hours, if light does not remain lit, then change the battery pack as follows:
3. Remove the diffuser and remove the gear tray.
4. Remove the battery case from the gear tray and remove the battery.
5. Write current date on the new battery pack and fit a new battery by reversing the above procedure.
6. Plug battery pack into circuit board.
7. Refit gear tray and diffuser.
8. Restore power and allow charging for 24 hours.
9. Perform full operation check and update test record.

## REPLACEMENT BATTERY TYPE:

3.2V 1500mAh Lithium

## MICROWAVE SENSOR SPECIFICATIONS:

PRODUCT TYPE	MICROWAVE MOTION SENSOR
Operating Voltage	220-240VAC 50/60Hz
HF System	5.8GHz CW radar
Transmission Power	<0.2mW
Detection Angle	30-150 Degree
Power Consumption	<0.5W
Detection Range	Max. 10m adjustable
Time Setting	5s-15m
Mounting	Indoors, ceiling and wall
Light Control	2-50lux, disable
Working Temp	-20 to +60 degree

## EVENTUALLY, YOU MAY WANT TO REPLACE THIS PRODUCT:

Regulations require the recycling of Waste from Electrical and Electronic Equipment (European "WEEE Directive" effective August 2005—UK WEEE Regulations effective 2nd January 2007). Environment Agency Registered Producer: WEE/GA0248QZ.

WHEN YOUR PRODUCT COMES TO THE END OF ITS LIFE OR YOU CHOOSE TO REPLACE IT, PLEASE RECYCLE IT WHERE FACILITIES EXIST - DO NOT DISPOSE WITH HOUSEHOLD WASTE.

## INDUSTRIAL BATTERIES:

Within certain products Eterna Lighting Ltd places lead acid, lithium ion, nickel cadmium & nickel metal hydride batteries on the market. Industrial batteries are subject to waste regulation under the Waste Batteries and Accumulators Regulations 2009 and should be disposed of responsibly. Purchasers may be able to dispose of their waste industrial batteries locally via legitimate licensed trade waste contractors. Eterna is obliged to take back, free of charge and within a reasonable time, waste industrial batteries of the same chemistry supplied to a Purchaser, for treatment and recycling and is required to do this in any calendar year new industrial batteries are placed on the market. In certain circumstances, this may include batteries not originally supplied by Eterna. If any Purchaser requires Eterna to take back Industrial batteries, they should write to the Operations Director, Eterna Lighting Ltd, Huxley Close, NN8 6AB, who will then advise on the necessary arrangements for the receipt, proper treatment and recycling of, the waste industrial batteries.

## IF YOU EXPERIENCE PROBLEMS:

If you believe your product is defective, please return it to the place where you bought it. Our Technical Team will gladly advise on any Eterna Lighting product, but may not be able to give specific instructions regarding individual installations.

## LAMP REPLACEMENT:

**The light source is designed to last the lifetime of the luminaire.**

The light source contained in this luminaire shall only be replaced by the manufacturer, service agent or a similar qualified person.

**CAUTION, RISK OF ELECTRIC SHOCK.**

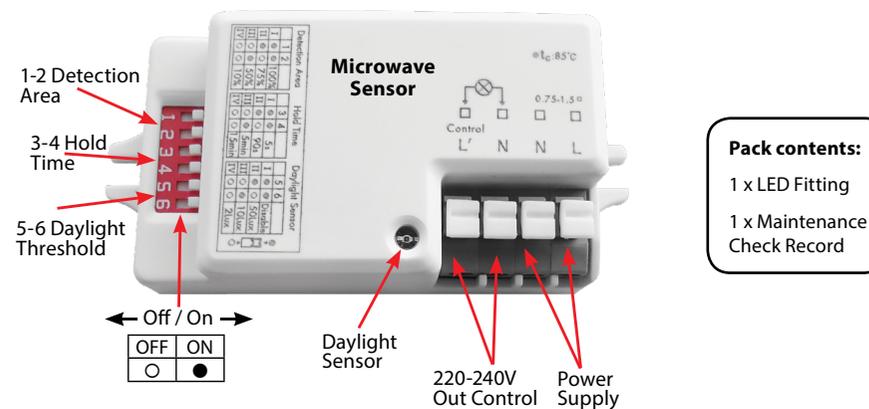


# Eterna

Everyday Lighting For Professionals

## INSTALLATION INSTRUCTIONS

### A guide for qualified electricians



Model:  
**MSLWHEM3SC**

**17W LED Emergency Ceiling/Wall Fitting  
With Microwave Sensor**

These instructions are provided as a guideline to assist you.

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



Email: [sales@eterna-lighting.co.uk](mailto:sales@eterna-lighting.co.uk) / [technical@eterna-lighting.co.uk](mailto:technical@eterna-lighting.co.uk)

Visit our website: [www.eterna-lighting.co.uk](http://www.eterna-lighting.co.uk)

Made in China

## READ THIS FIRST:

Check the pack and make sure you have all of the parts listed on the front of this booklet. If not, contact the outlet where you bought this product.

This product must be installed by a competent person in accordance with the current building and IEE wiring regulations.

As the buyer, installer and/or user of this product it is your own responsibility to ensure that this fitting is fit for the purpose for which you have intended it. Eterna Lighting cannot accept any liability for loss, damage or premature failure resulting from inappropriate use.

This product is designed and constructed according to the principles of the appropriate British Standard and is intended for normal domestic service. Using this fitting in any other environments may result in a shortened working life, for example where there is prolonged periods of use or higher than normal ambient temperatures such as lighting public or shared spaces or in nursing /care home facilities.

Switch off the mains before commencing installation and remove the appropriate circuit fuse or lock off MCB.

**WARNING:** There are two mains feed. Disconnect both before removing cover.

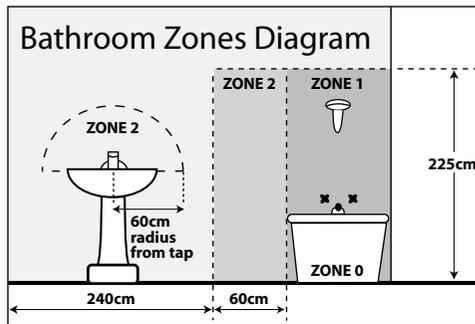
The batteries supplied with this fitting are consumable parts and therefore may be outside of any warranty offered.

This unit is suitable for indoor or outdoor use.

Ensure that the fitting will be accessible after installation for maintenance and self testing.

This product is suitable for use in living areas, Bathroom Zone 2 and outside of zones.

**If being fitted in a bathroom a 30mA RCD must be used.**



This product is designed for permanent connection to fixed wiring: this must be a suitable circuit (protected with the appropriate MCB or fuse).

This product is suitable for installation on surfaces with normal flammability e.g. wood, plasterboard and masonry. It is not suitable for use on highly flammable surfaces (e.g. polystyrene, textiles).

Before making fixing hole(s), check that there are no obstructions hidden beneath the mounting surface such as pipes or cables.

The chosen location of your new fitting should allow for the product to be securely mounted (e.g. to a ceiling joint) and safely connected to the mains supply (lighting circuit).

When making connections ensure that the terminals are tightened securely and that no strands of wire protrude. Check that the terminals are tightened onto the bared conductors and not onto any insulation.

This product must be connected to earth termination.

This product is not intended to be used by children and persons with sensory, physical and/or mental impairments that would prevent them from using it safely.

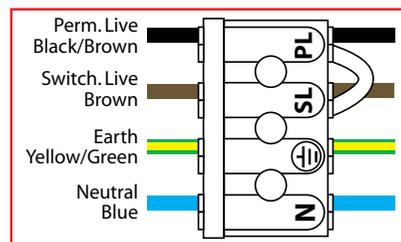
You are advised at every stage of your installation to double-check any electrical connections you have made. After you have completed your installation there are electrical tests that should be carried out, these tests are specified in the current IEE wiring and building regulations.

## INSTALLATION:

Isolate mains and lock off.

Choose the location of your new fitting giving consideration to all of the points listed above.

- Remove the diffuser by turning anti-clockwise and lifting off.
- 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 (not supplied).
- Using the back of your fitting as a template, mark the position of your fixing holes on your mounting surface.
- Prepare the holes in your mounting surface as appropriate for your fixings.
- Pierce the rubber grommet in the back of your fitting making a hole just large enough to make a tight fit around the incoming mains cable.
- Thread the cable through the grommet and offer the fitting to the ceiling / wall.
- Secure the fitting in place. Note if protection against ingress of moisture is required, the heads of screws must be covered with a silicone or similar sealant.
- Check that the grommet is still correctly fitted in the cable entry hole and around the incoming cable.
- Remove the terminal block cover and make the electrical connections to the gear tray according to the symbols, adjacent to the connector block as shown below:



10. Replace the terminal block cover.

11. Mark the current date on the battery pack.

12. Connect the battery plug to the socket on the driver.

13. Adjust microwave to desired settings.

14. Replace the diffuser and tighten securely making sure the gasket is correctly fitted in place.

15. Restore the power and check fitting is working correctly. A green LED light should always be present indicating the fitting is charging.

**NOTE: For non-maintained operation, remove link wire from SL and PL.  
For switched operation, remove link wire and make a switched supply into SL.**

## OPERATION CHECKS:

Periodic testing should be carried out to ensure emergency lighting is operating correctly. Interruption of the supply, causing the fitting to be energised from the battery, should be carried out by the operation of a local keyswitch or other isolation device. During this period all fittings should be examined visually to ensure that they are functioning correctly. At the end of the test period the supply shall be restored and all indicator lamps or devices checked to ensure that the normal supply has been restored.

### DAILY:

Visual inspection of the battery charge LED.

### EACH MONTH:

Isolate the power supply for a period sufficient to ensure that each lamp is illuminated. Endorse the test record form supplied.

### ONCE EACH YEAR:

Isolate the power supply and check that the light is still illuminated after 3 hours. Endorse the test record form.

Because of the possibility of a failure of the normal lighting supply occurring shortly after a period of testing of the emergency lighting system or during the subsequent recharge period, all full duration tests shall wherever possible be undertaken preceding time of low risk to allow for battery recharge.

**NOTE: please keep this instruction booklet and the test record in a safe place. A fire officer or other authorised person may want to see your record of inspection and testing.**

## UNDERSTANDING THE CONTROLS:

### REFER TO MICROWAVE SENSOR PICTURE ON FRONT PAGE

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 and thin walls.

### DETECTION RANGE:

This determines the effective range of the motion detector and is set up 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 10%

DETECTION AREA			
	1	2	
I	●	●	100%
II	●	○	75%
III	○	●	50%
IV	○	○	10%

KEY: ON: ● OFF: ○

### 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 - Walk test mode 5s
- II - 90s
- III - 5 minutes
- IV - 15 minutes

HOLD TIME			
	3	4	
I	●	●	5s
II	●	○	90s
III	○	●	5min
IV	○	○	15min

KEY: ON: ● OFF: ○

### DAYLIGHT SENSOR:

This setting holds off the 100% light output should there be sufficient daylight and is set using DIP switches at the sensor, refer to figure.

The following settings are available:

- I - Photocell disabled
- II - 50 lux twilight operation
- III - 10 lux twilight operation
- IV - 2 lux darkness operation only

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

DAYLIGHT SENSOR			
	5	6	
I	●	●	Disable
II	●	○	50 Lux
III	○	●	10 Lux
IV	○	○	2 Lux

KEY: ON: ● OFF: ○

## RED DIRECTIVE

Eterna Lighting Ltd

### Microwave Occupancy Sensor

Full declaration available at [www.eterna-lighting.co.uk](http://www.eterna-lighting.co.uk)

