

## 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.

- 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.
- Test again for 3 hours, if light does not remain lit, then change the battery pack as follows:
- Remove the diffuser and remove the gear tray.
- Remove the battery case from the gear tray and remove the battery.
- Write current date on the new battery pack and fit a new battery by reversing the above procedure.
- Plug battery pack into circuit board.
- Refit gear tray and diffuser.
- Restore power and allow charging for 24 hours.
- Perform full operation check and update test record.

## REPLACEMENT BATTERY TYPE:

3.2V 1500mAh Lithium (Replacement code: EB11)

## MICROWAVE SENSOR SPECIFICATIONS:

PRODUCT TYPE	MICROWAVE MOTION SENSOR
Operating Voltage	220-240VAC 50/60Hz
HF System	5.8GHz
Transmission Power	1mW Max
Detection Angle	150 Degree
Power Consumption	<0.5W
Detection Range	Max. 6m adjustable
Time Setting	5s-30m
Mounting	Indoors, ceiling and wall
Light Control	2-50lux, disable
Working Temp	-20 to +60 degree
Rated Load	400W (Inductive load) 800W (Resistive load) 270W (LED)

## 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:

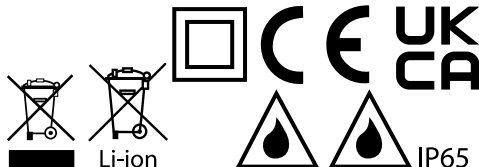
If you believe your product is defective, please return it to the place where you bought it. Our Technical Team will gladly advise on any Eterna Lighting product, but may not be able to give specific instructions regarding individual installations.

## 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 Lighting Ltd  
**RED DIRECTIVE - Microwave Occupancy Sensor**  
Full declaration available at:  
[www.eterna-lighting.co.uk/red-declaration](http://www.eterna-lighting.co.uk/red-declaration)

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

Issue 0122

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

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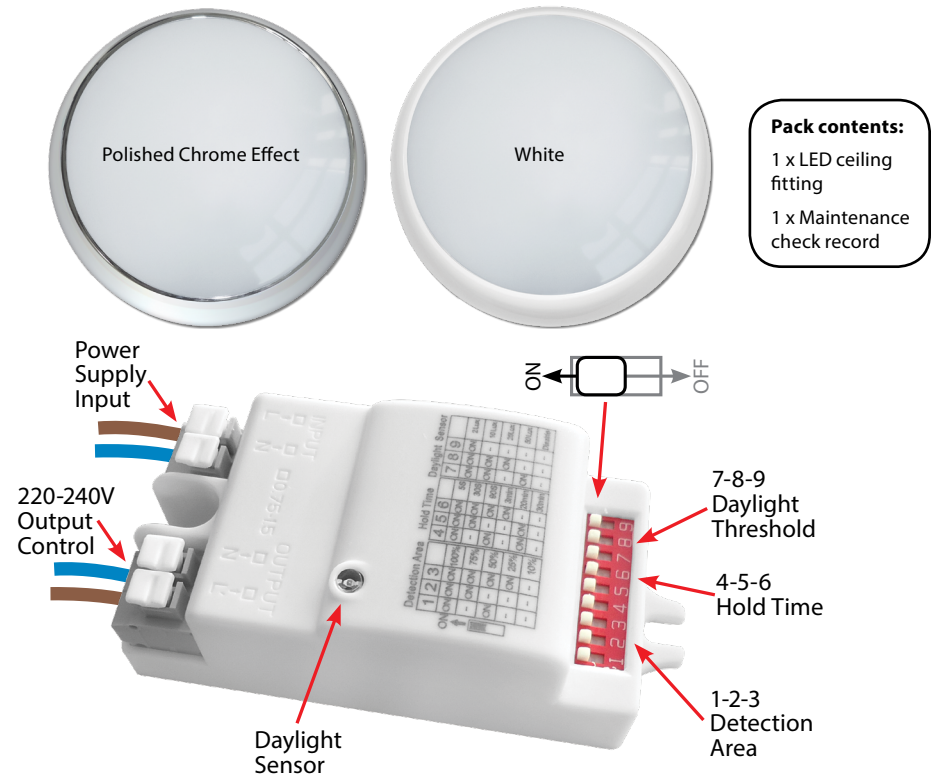
# Eterna

Everyday Lighting For Professionals

V3

## INSTALLATION INSTRUCTIONS

### A guide for qualified electricians



#### Pack contents:

- 1 x LED ceiling fitting
- 1 x Maintenance check record

Model:

## MSCSLCREM3 / MSCSLWHEM3 LED Colour Temperature Selectable 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**

## 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.**

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 is double insulated. Do not connect any part to Earth.**

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:

Choose the location for your new fitting according to the conditions listed opposite.

- 01) Hold the base of the fitting and gently turn the diffuser and decorative trim anti-clockwise and lift off.
- 02) Unscrew and remove LED gear tray.
- 03) 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).
- 04) Using the back of your fitting as a template, mark the position of your fixing holes on your mounting surface.
- 05) Prepare the holes in your mounting surface as appropriate for your fixings.
- 06) 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.
- 07) Thread the cable through the grommet and offer the fitting to the ceiling / wall.
- 08) 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.
- 09) Check that the grommet is still correctly fitted in the cable entry hole and around the incoming cable.
- 10) Make the electrical connections to the terminal block according to the markings:

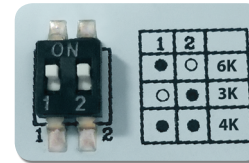
Brown to live (L) • Blue to neutral (N)

- 11) Mark the current date on the battery pack.
- 12) Ensure the battery plug is connected to the socket on the driver.
- 13) Connect the plug/socket between terminal block and gear tray.
- 14) Replace gear tray and secure in position with the three screws.
- 15) Set colour temperature to the desired option. See below.
- 16) Set desired settings on microwave.

17) Offer the diffuser and decorative trim onto the top of the fitting and turn clockwise until they are held securely.

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

**NOTE: For non-maintained operation, remove link wire from L and L1. For switched operation, remove link wire and make a switched supply into L1.**



**NOTE:** In warm white (3000K) and daylight white (6500K) operation only one set of LEDs will illuminate, in cool white (4200K) both sets of LEDs will illuminate.

1	2		K Temp	LEDs On
○	●	DL	6500K	All Yellow
●	○	WW	3000K	All Orange
●	●	CW	4200K	All Orange All Yellow
● = ON ○ = OFF				



## 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 THE 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.

DETECTION AREA				
	1	2	3	
I	ON	ON	ON	100%
II	-	ON	ON	75%
III	ON	-	ON	50%
IV	-	-	ON	25%
V	-	-	-	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.

HOLD TIME				
	4	5	6	
I	ON	ON	ON	5s
II	-	ON	ON	30s
III	ON	-	ON	90s
IV	-	-	ON	3 mins
V	ON	ON	-	20 mins
VI	-	-	-	30 mins

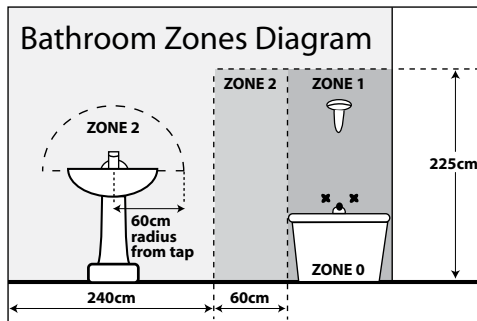
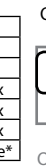


## DAYLIGHT SENSOR:

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.

\*If the daylight sensor is disabled the sensor will turn on light once motion is detected regardless of ambient light level.

DAYLIGHT SENSOR				
	7	8	9	
I	ON	ON	ON	2Lux
II	ON	ON	-	10Lux
III	-	ON	-	25Lux
IV	ON	-	-	50Lux
V	-	-	-	Disable*

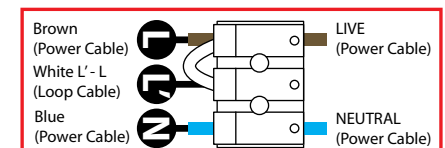


This product is designed for permanent connection to fixed wiring: this must be a suitable circuit (protected with the appropriate MCB or fuse).

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.

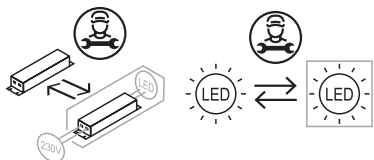
The chosen location of your new fitting should allow for the product to be securely mounted (e.g. to a ceiling joist) and safely connected to the mains supply (lighting circuit).





**LED LAMP SPECIFICATIONS:**

Luminaire lumens (with diffuser): <b>Warm White, Cool White, Daylight White</b>	<b>1480 lm</b> <b>1580 lm</b> <b>1500 lm</b>
Lumens from chip (array): <b>Warm White, Cool White, Daylight White</b>	<b>1800 lm</b> <b>1900 lm</b> <b>1930 lm</b>
Useful lumens (array): <b>Warm White, Cool White, Daylight White</b>	<b>1320 lm</b> <b>1440 lm</b> <b>1390 lm</b>
Rated Wattage	14W
Rated luminous flux	1320/1440/1390 lm
Nominal life time of the lamp	50,000 hrs
Colour temperature	3000/4200/6500K
Number of switching cycles before premature lamp failure	≥15,000
Warm-up time up to 60% of the full light output	Instant full light
Dimmable	No
Nominal beam angle	120°
Rated power	14W
Rated lamp lifetime	50,000 hrs
Displacement factor	≥0.9
Lumen maintenance factor at end of nominal life	≥0.8
Starting time	Instant full light
Colour rendering	>80 Ra
Colour consistency	Within 6 step Macadam ellipse
Rated peak intensity	355/396/378cd
Rated beam angle	120°
Voltage / Frequency	240V~50Hz
Lumen efficacy: 150/122/107 lm / W	
This product contains a Light Source of Energy Efficiency Class E	
Not suitable for accent lighting	



See website for more information on  
replacability and recycling