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.

- 01. 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.
- 02. Test again for 3 hours, if light does not remain lit, then change the battery pack as follows:
- 03. Remove the diffuser and remove the gear tray.
- 04. Remove the battery case from the gear tray and remove the battery.
- 05. Write current date on the new battery pack and fit a new battery by reversing the above procedure.
- 06. Plug battery pack into circuit board.
- 07. Refit gear tray and diffuser.
- 08. Restore power and allow charging for 24 hours.
- 09. 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	
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 February 2014). 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.**



Email: sales@eterna-lighting.co.uk / technical@eterna-lighting.co.uk
Visit our website: www.eterna-lighting.co.uk
Made in China

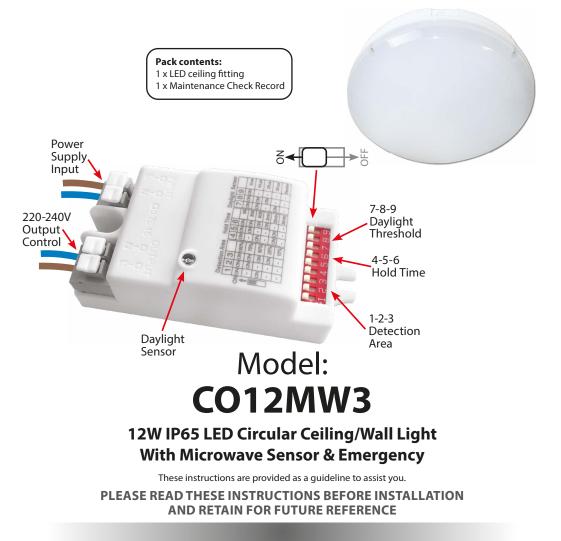




INSTALLATION INSTRUCTIONS

A guide for qualified electricians

3 HOURS DURATION IN EMERGENCY MODE



Issue 0823

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.

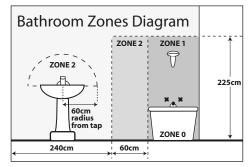
The batteries supplied with this fitting are consumable parts and therefore may be outside of any warranty offered.

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 outsides 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 joist) 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 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) Remove diffuser.

- 02) Drill holes in the back of your fitting through the drill guide positions 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.
- 03) Using the back of your fitting as a template, mark the position of your fixing holes on your mounting surface.
- 04) Prepare the holes in your mounting surface as appropriate for your fixings.
- 05) 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.

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

- 07) 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.
- 08) Check that the grommet is still correctly fitted in the cable entry hole and around the incoming cable.
- 09) Make the electrical connections to the terminal block according to the markings:
- Brown to live (L) Blue to neutral (N)
- 10) Mark the current date on the battery pack.
- 11) Ensure the battery plug is connected to the socket on the driver.
- 12) Set colour temperature to the desired option by selecting appropriate switch setting on the LED tray. See diagram on opposite page:

NOTE: In warm white (3100K) and daylight (6400K) operation only one set of LEDs will illuminate, in cool white (4200K) both sets of LEDs will illuminate.

1	2		K Temp	ON
	0	ww	3100K	
0		DL	6400K	
		CW	4200K	Ш
	= ON	0	= OFF	OFF

13) Set desired settings on microwave.

- 14) Offer the diffuser (and decorative trim if using) on to the top of the fitting.
- 15) 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.

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:

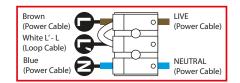
Isolate the power supply for a period sufficient to ensure that each lamp is illuminated. Endorse the test record form supplied.

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.

	ON				
	1	2	3		-
	ON	ON	ON	100%	()
	-	ON	ON	75%	
	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					ON
	4	5	6		
I	ON	ON	ON	5s	F
II	-	ON	ON	30s	
	ON	-	ON	90s	\mathbf{H}
IV	-	-	ON	3 mins	
V	ON	ON	-	20 mins	•
VI	-	-	-	30 mins	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.

*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		P
1	ON	ON	ON	2Lux	-[
Ш	ON	ON	-	10Lux	ŀ
111	-	ON	-	25Lux	
IV	ON	-	-	50Lux	
V	-	-	-	Disable*	6

Eterna Lighting Ltd **RED DIRECTIVE - Microwave Occupancy Sensor** Full declaration available at: **www.eterna-lighting.co.uk/red-declaration**



Product	Product
Code:	Description:
Product Location:	
Installation	Installation
Date:	Test Duration:
Installed By:	

Month Year: Year: Year: Year: Year: Test Date Sign Date Sign Date Sign Date Sign Date Sign 01 Short 02 Short 03 Short 04 Short 05 Short 06 Short 07 Short 08 Short 09 Short 10 Short 11 Short 3 Hour 12 Endurance

LED LAMP SPECIFICATIONS:				
Luminaire lumens (with diffuser): 3100K, 4200K, 6400K	1180 lm 1290 lm 1230 lm			
Lumens from chip (no diffuser): 3100K, 4200K, 6400K	1420 lm 1570 lm 1530 lm			
Useful lumens (array): 3100K, 4200K, 6400K	1120 lm 1200 lm 1170 lm			
Rated Wattage	12W			
Rated luminous flux	1120/1200/1170 lm			
Nominal life time of the lamp	40,000 hrs			
Colour temperature	3100/4200/6400K			
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	12W			
Rated lamp lifetime	40,000 hrs			
Displacement factor				
Lumen maintenance factor at end of nominal life	≥0.70			
Starting time	Instant Full Light			
Colour rendering	≥80			
Colour consistency	Within 6 step Macadam ellipse			
Rated peak intensity	278/265/285cd			
Rated beam angle	120°			
Voltage / Frequency	240V~50-60Hz			
This product contains a Light Source of Energy Efficiency Class D				
Not suitable for accent lighting				



See website for more information on replacability and recycling