

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.



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.

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.

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, then remove the four screws and remove the battery by unplugging the battery lead from the circuit board.
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:

Ni-Cd 6V 2000mAh

CLEANING:

Disconnect the power and clean the exterior only of this fitting with a moist (not wet) cloth.

Do not use any chemical or abrasive cleaners.

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.



Email: sales@eterna-lighting.co.uk / technical@eterna-lighting.co.uk

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Visit our website: www.eterna-lighting.co.uk

Made in China

 **Eterna**
Everyday Lighting For Professionals

INSTALLATION INSTRUCTIONS

A guide for qualified electricians

3 HOURS DURATION IN EMERGENCY MODE

PACK CONTENTS:

LED weatherproof fitting

FIXING KIT:

2 x Hanging clips
2 x Hanging hooks
1 x Grommet
1 x IP65 gland
2 x Wall plugs
2 x Fixing screws
2 x Washers



Model:

WP51SDEM3 / WP61SDEM3

IP65 LED Emergency Step Dim Weatherproof Fittings

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 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.

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

Disconnect the Driver / dimmer from the electrical supply before flash or high voltage testing.

Do not connect to a circuit which also has inductive loads connected; switching of inductive loads will generate spikes which may damage electronic components within your driver / dimmer.

This unit is suitable for outdoor use.

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

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

Make sure that the fixings are strong enough to support the considerable weight of the fitting and hold it rigidly.

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 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.

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.

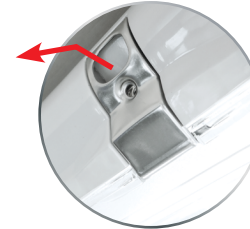
NOTE: this unit has a permanent live mains supply, please ensure you isolate before removing cover.

There may also be a separate switched supply that controls the emergency light fitting - this also needs to be isolated.

INSTALLATION:

01) Choose the location of your new fitting giving consideration to all of the conditions listed above and the position of the entry points for the mains supply cable.

02) Put finger in the hole on top of the clip and pull outwards to release the diffuser clips to open up the fitting.



03) Press together the tops of the clips protruding through the middle of the gear tray and lift the tray out of the fitting.



04) If fixing direct to a mounting surface, clear through the mounting holes on the back of the fitting, visible from the outside, using a 5mm drill.

05) Using the back of the fitting as a template, mark the location of the fixing holes on your mounting surface.

06) If fixing directly to a solid surface, drill holes and insert the plastic plugs supplied.

07) Secure your fitting in position using the screws and washers supplied. Put the washer onto the screw before fixing. If the fixings supplied are not appropriate to your installation, please select suitable alternatives. Take care not to over tighten fixing screws to prevent damaging the case.

08) Hanging clips are supplied to allow you to suspend the fitting from chains (not supplied).

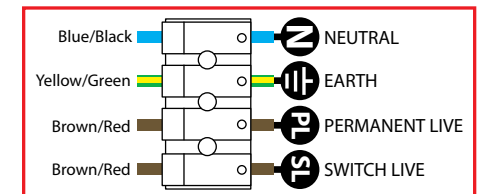
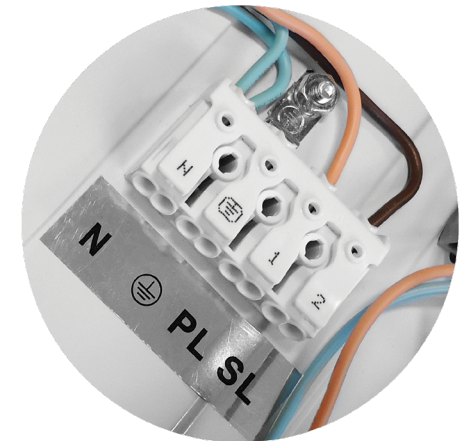
09) Ensure that the chain is strong enough to support the weight of the fitting and that the tops of the chains are fixed securely to the mounting surface.

10) Pierce the centre of the grommet at the end of the fitting adjacent to the supply wiring. Take care not to make the hole too large as the tight fit of the gland to the cable is essential for it to retain its IP rating. Alternatively, fit a gland/nut assembly.

11) Thread the supply cable through the gland.

12) Make connections to the terminal block on the back of the white metal gear tray according to the following colour code:

Neutral - Blue or Black
Earth - Green and Yellow
PL (Permanent Live) - Brown/Red
SL - (Switch Live) - Brown/Red



13) Adjust the microwave sensor settings as required.

14) Locate the gear tray over the metal clips protruding from the case and press the gear tray into position. Ensure that all clips have latched securely.

15) Hold the diffuser in position on the fitting so that it is seated on the soft foam gasket all the way around.

16) Position the bottom of each clip hook in the lip of the diffuser and press the thumb catches up and over to lock firmly in position.

17) Restore the power supply and switch on.

UNDERSTANDING THE CONTROLS:

This luminaire has a step dim (corridor) function - operation is at 100% light level after last presence detection, reducing to 50/30/20 or 10% light output after installer selected time delay.

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.

NOTE: The microwave settings control when 100% output is achieved; it is not possible to disable the 10% setting.

MICROWAVE SENSOR SPECIFICATIONS:

PRODUCT TYPE	10% STEP DIM MICROWAVE MOTION SENSOR
Product Type	10% Step-Dim Microwave Sensor
Operating Voltage	220-240VAC ~ 50/60Hz
Microwave frequency	5.8GHz ± 75MHz
Microwave power	<0.3mW
Detection Angle	360° (ceiling mounted)
90 Degree (wall mounted)	Max. 12-18m adjustable
Power Consumption	<0.5W
Detection Range Max.	Max. 14m (ceiling mounted)
Max.10m(wall mounted)	2-50Lux, disable
Hold-time	5s/30s/1min/5min/10min/20min/30min
Stand-by period	0s/10s/1min/10min/30min/1h
Mounting	Indoors: ceiling and wall
Light Control	2-50Lux, disable
Working Temp	-20°C to +55°C

KEY: ON: ● OFF: ○

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%

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 minute
- IV - 5 minutes
- V - 10 minutes
- VI - 20 minutes
- VII - 30 minutes

HOLD TIME			
	3	4	5
I	●	●	●
II	○	●	●
III	●	●	○
IV	○	○	●
V	○	●	○
VI	●	○	○
VII	○	○	○

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 - 2Lux darkness operation only
- II - 10Lux twilight operation
- III - 50Lux daylight operation
- IV - 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.

DAYLIGHT SENSOR			
	6	7	
I	●	●	Disable
II	●	○	50Lux
III	○	●	10Lux
IV	○	○	2Lux

STAND-BY PERIOD:

This is the time period the light keeps dimmed down after the last detection.

- I - 0s
- II - 10 minutes
- III - 1 minute
- IV - 10 minutes
- V - 30 minutes
- VI - 1 hour
- VII - Infinity

STAND-BY PERIOD			
	8	9	10
I	●	●	●
II	○	●	●
III	●	●	○
IV	○	○	●
V	○	●	○
VI	●	○	○
VII	○	○	○

STAND-BY DIMMING LEVEL:

This is the dimming level the light keeps during the stand-by period.

- I - 10%
- II - 20%
- III - 30%
- IV - 50%

STAND-BY DIMMING LEVEL		
	11	12
I	●	●
II	●	○
III	○	●
IV	○	○

RED DIRECTIVE

Eterna Lighting Ltd

Microwave Occupancy Sensor

Full declaration available at www.eterna-lighting.co.uk



INSTALLATION, MAINTENANCE AND OPERATION CHECK RECORD

Product Description:

Installation
Date:

Installation
Test Duration:

Installed
By:

[illegible]