

MICROWAVE SENSOR SPECIFICATIONS:

PRODUCT TYPE	10% STEP DIM 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. 12-18m adjustable
Time Setting	5s-30m
Mounting	Indoors: ceiling and wall
Working Temp	-20 to +60 degree

RED DIRECTIVE

Eterna Lighting Ltd

Microwave Occupancy Sensor

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

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.

EVENTUALLY, YOU MAY WANT TO REPLACE THIS PRODUCT:

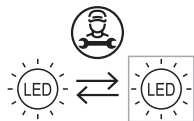
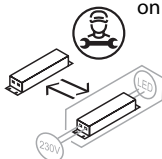
Regulations require the recycling of Waste from Electrical and Electronic Equipment (European "WEEE Directive" effective August 2005—UK WEEE Regulations effective 2nd January 2007). Environment Agency Registered Producer: WEE/GA0248QZ.

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.

CLEANING:

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

See website for more information on replacability and recycling



LED LAMP SPECIFICATIONS:

Luminaire lumens (with diffuser): Warm White, Cool White, Daylight White	1480 lm 1580 lm 1500 lm
Lumens from chip (array): Warm White, Cool White, Daylight White	1800 lm 1900 lm 1930 lm
Useful lumens (array): Warm White, Cool White, Daylight White	1320 lm 1440 lm 1390 lm
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	



Eterna

V3

Everyday Lighting For Professionals

INSTALLATION INSTRUCTIONS

A guide for qualified electricians

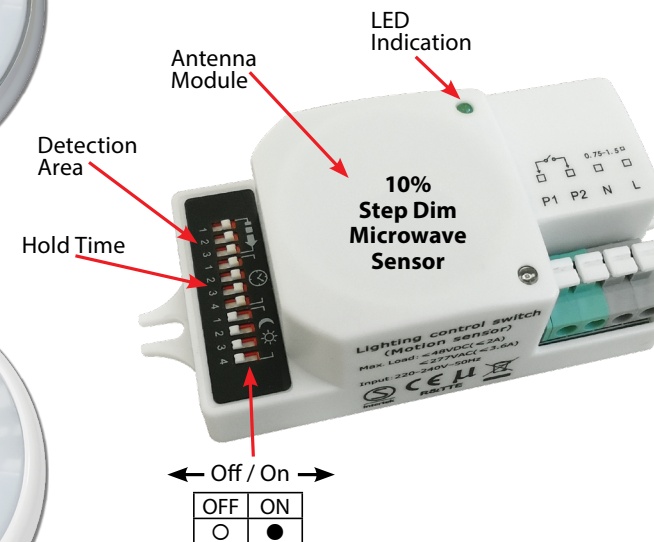


Polished Chrome

Pack contents:
1 x LED ceiling fitting



White



Model:

SDCSLEDCR / SDCSLEDWH

LED Colour Temperature Selectable Ceiling/Wall Fitting With 10% Step-dim (Corridor Mode) 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 / technical@eterna-lighting.co.uk

Issue 0422

Visit our website: 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.

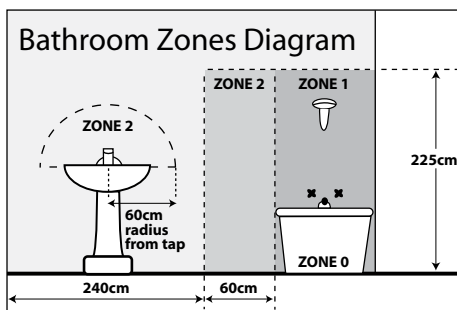
As the buyer, installer and/or user of this product it is your own responsibility to ensure that this fitting is fit for the purpose for which you have intended it. Eterna Lighting cannot accept any liability for loss, damage or premature failure resulting from inappropriate use.

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.

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 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.

INTRODUCTION:

The ceiling / wall light incorporates a microwave sensing device which continuously scans the operating zone and immediately switches the light on when it detects movement in that area. This means that whenever movement is detected within the range of the sensor the light will switch on automatically and illuminate the area you have selected to light. While there is movement within range of the unit the light will remain on.

A microwave sensor is an active motion detector emitting high-frequency electro-magnetic waves at 5.8GHz and receiving their echo. The sensor detects change in the echo pattern within its detection zone and the light is then triggered. The wave can pass through doors, glass and thin walls and will continually monitor the signal within the detection area.

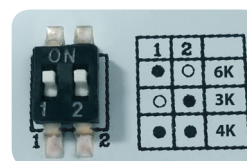
INSTALLATION:

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

- Hold the base of the fitting and gently turn the diffuser and decorative trim anti-clockwise and lift off.
- Unscrew and remove LED gear tray.
- 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.
- Make the electrical connections to the terminal block according to the markings:

Brown to live (L) • Blue to neutral (N)
Earth green & yellow (⊕)

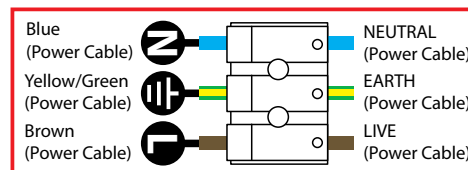
- Connect the plug/socket between terminal block and gear tray.
- Replace gear tray and secure in position with the three screws.
- Set colour temperature to the desired option. See below.
- Set desired settings on microwave.
- Offer the diffuser and decorative trim onto the top of the fitting and turn clockwise until they are held securely.
- Restore the power and check fitting is working correctly. A green light should always be present indicating the fitting is charging.



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



UNDERSTANDING THE CONTROLS:

Refer to microwave sensor diagram on front page.

This luminaire has a step dim (corridor) function - operation is at 100% light level after last presence detection, reducing to 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.

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 25%
- V - Detection Range 10%

DETECTION AREA				
	1	2	3	
I	●	●	●	100%
II	○	●	●	75%
III	●	○	●	50%
IV	●	●	○	25%
V	○	○	○	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 - 5s
- II - 30s
- III - 1 minute
- IV - 5 minutes
- V - 15 minutes
- VI - 30 minutes

HOLD TIME					
	1	2	3	4	
I	●	●	●	●	5s
II	○	●	●	●	30s
III	●	○	●	●	1min
IV	●	●	○	●	5min
V	●	●	●	○	15min
VI	○	○	○	○	30min

KEY: ON: ● OFF: ○



DAYLIGHT SENSOR:

The Daylight Sensor options cannot be adjusted with this model. It is supplied preset to disabled and should not be amended.

The photocell is mounted inside the enclosure and lower daylight levels may not be detected through the diffuser. Select dip switch setting VI to disable the Photocell. On presence detection the fitting will run at 100% and then return to 10% corridor function after the pre-set Hold Time in daytime and night time operation.

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.