

Read these instructions before commencing installation. Please give these instructions to the owner/occupier after installation to retain for future reference/maintenance.

IP20 240VAC~50Hz

These Sensors are Class II and do not require an Earth connection

**Important Information**

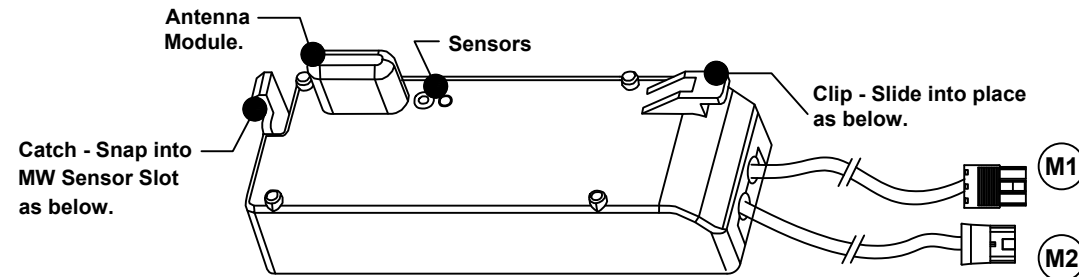
It is recommended that the luminaires and MW Sensors are installed and fitted by a qualified electrician ensuring the installation complies with the current IEE Wiring Regulations & Local Building Control. These products are designed for connection to a 240V 50Hz supply. Any broken or damaged parts should be replaced as soon as possible. KSR will not accept responsibility for any claims arising from a poor installation.

**Important User Advise**

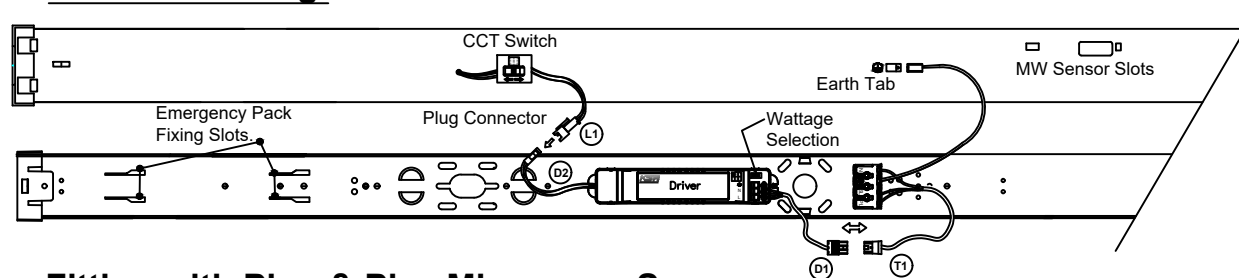
Always switch off the mains supply before installing / servicing, this Microwave Sensor is suitable for internal use only (unless fitted within an IP rated fitting or enclosure). As the buyer / installer and / or user of this product it is your own responsibility to ensure the Microwave Sensor is fit for purpose for which you have intended and operates to the relevant standards. KSR Lighting cannot accept any liability for loss, damage or premature failure resulting from inappropriate use. Do not use Megger or similar high voltage instruments due to the fact the Microwave Sensor contains electronic components that maybe damaged by high voltage testing, they must be disconnected from the circuit prior to testing. To prevent damage to the Microwave Sensor, do not mix with conventional magnetic ballasts on the same electrical circuit. At the end of life the Microwave Sensor is classed as WEEE under directive 2014/30/EU and should be disposed of in accordance with local legislation.

**Installation Procedure**

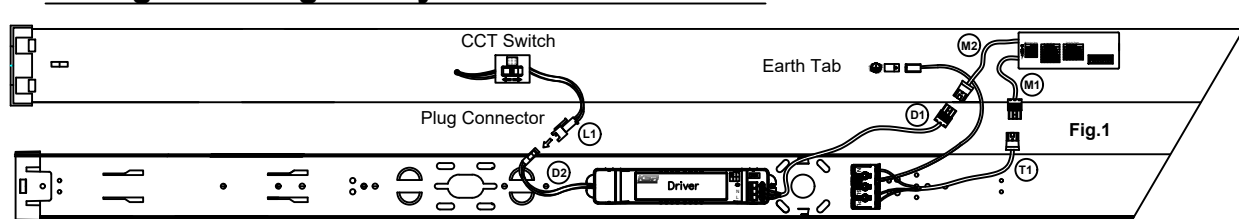
Familiarize yourself with the installation procedure and ensure the power is safely isolated before installing the Microwave Sensor. Connect the CCT Switch plug connectors (L1 & D2) together. Clip the sensor into the designated slot in the gear tray or top part (fitting dependant) of the fitting intended for use, wire / connect as per Fig.1. Connect the 2 plug and play connectors to the 2 already housed in the fitting (M2 to the D1 driver & M1 to T1 from the terminal block). Set up the dip switches to the desired functions, If also fitting the Plug & Play Emergency pack (KSR98189) fix into place via the slots in the gear tray as shown above right, connect the plug & play connectors) E2 to the driver D1 and E1 to the M2 MW sensor as per Fig.2. Re-fit the gear tray / housing and ensure all connections are made as per the fitting instructions. re-fit the cover prior to turning on the mains supply & test.



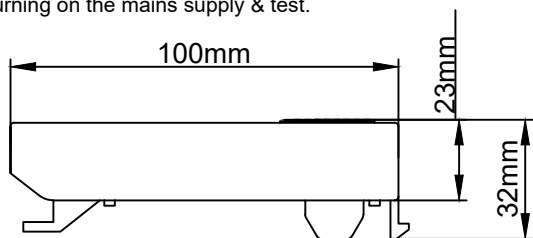
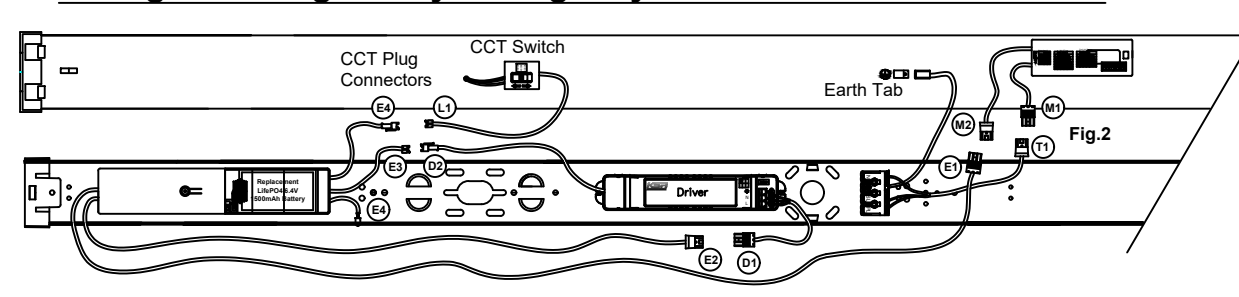
**Standard Fitting.**



**Fitting with Plug & Play Microwave Sensor.**



**Fitting with Plug & Play Emergency Pack & Microwave Sensor.**

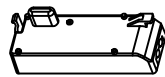


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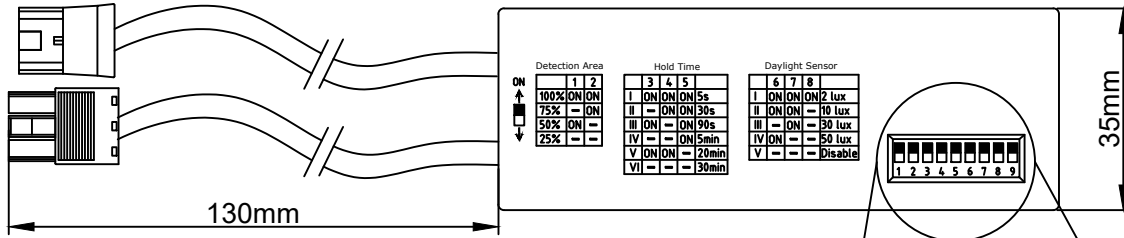
**IMPORTANT NOTE!**

After the installation of the EM Pack and / or the MW Sensor pack, please make sure none of the cables are trapped when re-fitting the gear tray or diffusers / top part.



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### Clip on Sensor - Plug & Play for Easy & Quick Installation.



#### 1 - Detection Area

Detection area can be reduced by selecting the combination on the Dip Switches, following the guide as shown here.

	1	2
100%	ON	ON
75%	-	ON
50%	ON	-
25%	-	-



#### 2 - Hold Time

Hold time means the time period you would like the light to remain 'on' once no movement is detected.

	3	4	5	
I	ON	ON	ON	5s
II	-	ON	ON	30s
III	ON	-	ON	90s
IV	-	-	ON	5min
V	ON	ON	-	20min
VI	-	-	-	30min

#### 3 - Daylight Sensor

The daylight sensor can be set to bring the light 'on' at specific daylight levels. To have the sensor function in daylight set the Dip Switches to Disable.

	6	7	8	
I	ON	ON	ON	2 lux
II	ON	ON	-	10 lux
III	-	ON	-	30 lux
IV	ON	-	-	50 lux
V	-	-	-	Disable

This Microwave sensor is a motion activated switch, it will turn the light on when movement is detected, then hold the light on for the determined amount of time, after which the light will turn off.

Using the Dip Switches on the sensor, set it up to your preferred Detection area, Hold Time & Daylight level.

Microwave sensors will detect movement through certain materials, if this occurs reduce the detection area until any nuisance triggering stops.

This sensor is Stand Alone Only, do not try to connect to more than one fitting.

### Troubleshooting

Issue	Cause	Solution
The load will not illuminate	Incorrect daylight threshold setting selected	Adjust setting and retest
	Load has failed (driver or LED array)	Replace load
	No mains power detected	Switch on power
The load is permanently illuminated	Continuous movement in the detection area	Check detection area setting
	The lamp (containing sensor) is installed in an area too close to reflective surface, i.e Metal, Glass or Concrete walls.	1. Make sure installation area suitable with at least 30cm space between lamp and surrounding reflective surfaces 2. Reduce Sensitivity (detection area)
The load will not illuminate despite movement	Speed of moving object is not in the range of 0.5-3m/s or the detection radius is too small	Check Detection area setting

The Sensor is designed for installation heights of 3-6m

#### Recommended Installation heights

For Ceiling mounting the height is 3m

Detection Zone Max. (D x H): 6m x 6m

Detection Angle: 360° (ceiling Installation)

