



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

Available finish:- White

IP20↑
IP65↓

240V~50Hz 25W/36W

These fittings are Class II and do not require to be Earthed

Important Information

It is recommended that these luminaires are installed and fitted by a qualified electrician ensuring the installation complies with current wiring regulations & local building control. These products are designed for connection to a 240V~50Hz supply. Any faulty, broken or damaged luminaires should be replaced immediately. KSR will not accept responsibility for any claims arising from a poor installation. Please Note: The limited warranty shall be deemed null and void in the following circumstances: Failure by the installer, end user or any third party to exercise caution to protect any covered product or part from outside damage, adverse temperature (normal operating ambient temperature 0 ~ +30°C), humidity conditions, fluctuations in the electrical system or physical abuse as well as failure related to workmanship in the installation of the products or parts.

Important User Advice

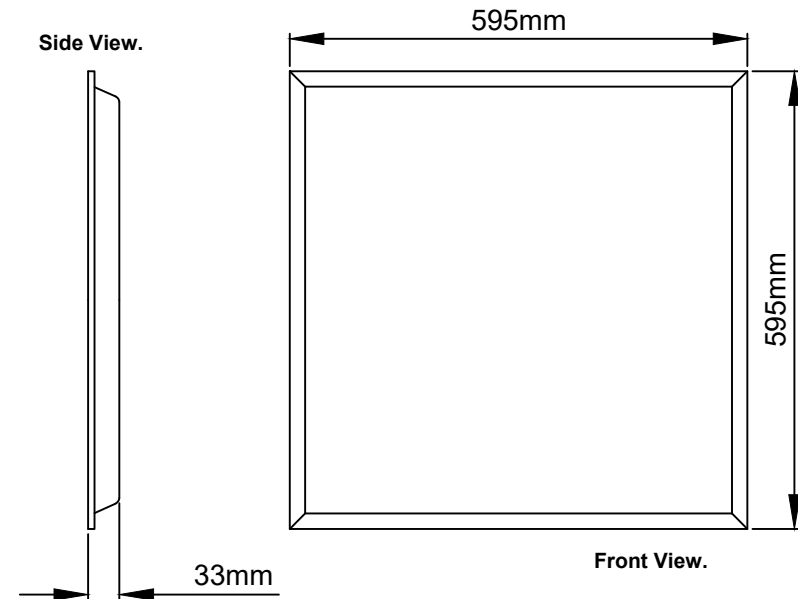
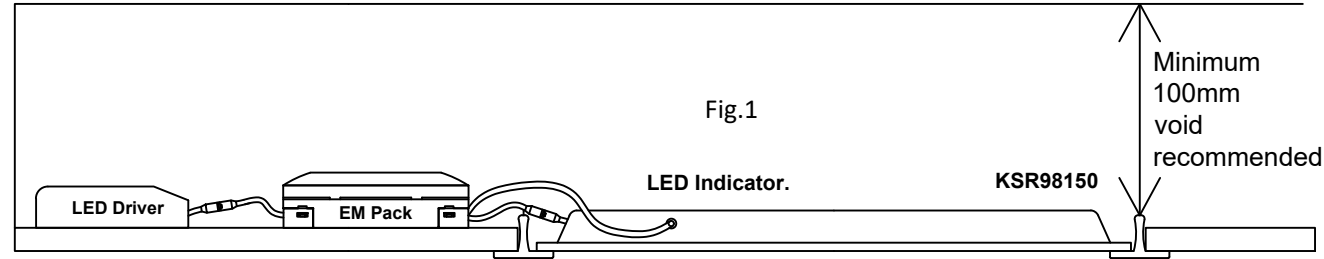
Always switch off mains supply before servicing. This luminaire is suitable for indoor use only and should not be fitted to damp or wet surfaces such as freshly plastered or painted ceilings. IP rated when installed from the front face only. Do not use Megger or similar high voltage instruments. Due to the fact this luminaire contains electronic components that may be damaged by high test voltages, they must be disconnected from the circuit before testing. To prevent damage to the driver, do not mix with conventional magnetic ballasts on the same electrical circuit. At the end of life the luminaire is classed as WEEE under directive 2014/30/EU and should be disposed of in accordance with local legislation.

Installation Procedure

KSR recommend that you familiarize yourself with the connections and suitable locations for the LED panel. Ensure the mains supply is safely isolated. The panel can be installed into suitable suspended ceilings (please ensure the ceiling can support the weight of the panel(s) to be fitted. This product is suitable for both 15mm & 25mm T Grid ceilings. The driver & EM Pack can be located on the rear of the panel if needed, however it is advised you locate it alongside the LED panel on an adjacent tile. Connect your mains supply to the as per the wiring diagram overleaf. As a Class II luminaire it does not require an Earth connection.

Place the driver & EM pack in the ceiling void, ensure you do not cover the driver in insulation, it must always remain in free air space. Connect the plug from the driver to the LED panel, twist and lock the connection. Switch the CCT switch to the required LED colour. Never switch the CCT switch while powered on. Carefully install the panel into the ceiling ensuring you take care not to damage the back of the panel by using excessive force and allow it to drop into the T grid, turn on the power and test.

This product contains a light source of energy efficiency class E



Power	Colour Temperature		
	3000K	4000K	6000K
25W	2910lm	3035lm	2970lm
36W	4190lm	4360lm	4275lm

The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced



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Drg No. KSR98150EM-IS-E



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IP20↑
IP65↓

240V~50Hz 25W/36W

Installation Particulars For End User

Installation Procedure
Familiarize yourself with the installation procedure and ensure the power is safely isolated before installing the Emergency pack. Ensure the LED luminaire is within the specification 9-55VDC or 55-80VDC, if 55-80VDC voltage range is required please remove the jumper as stated on the casing.

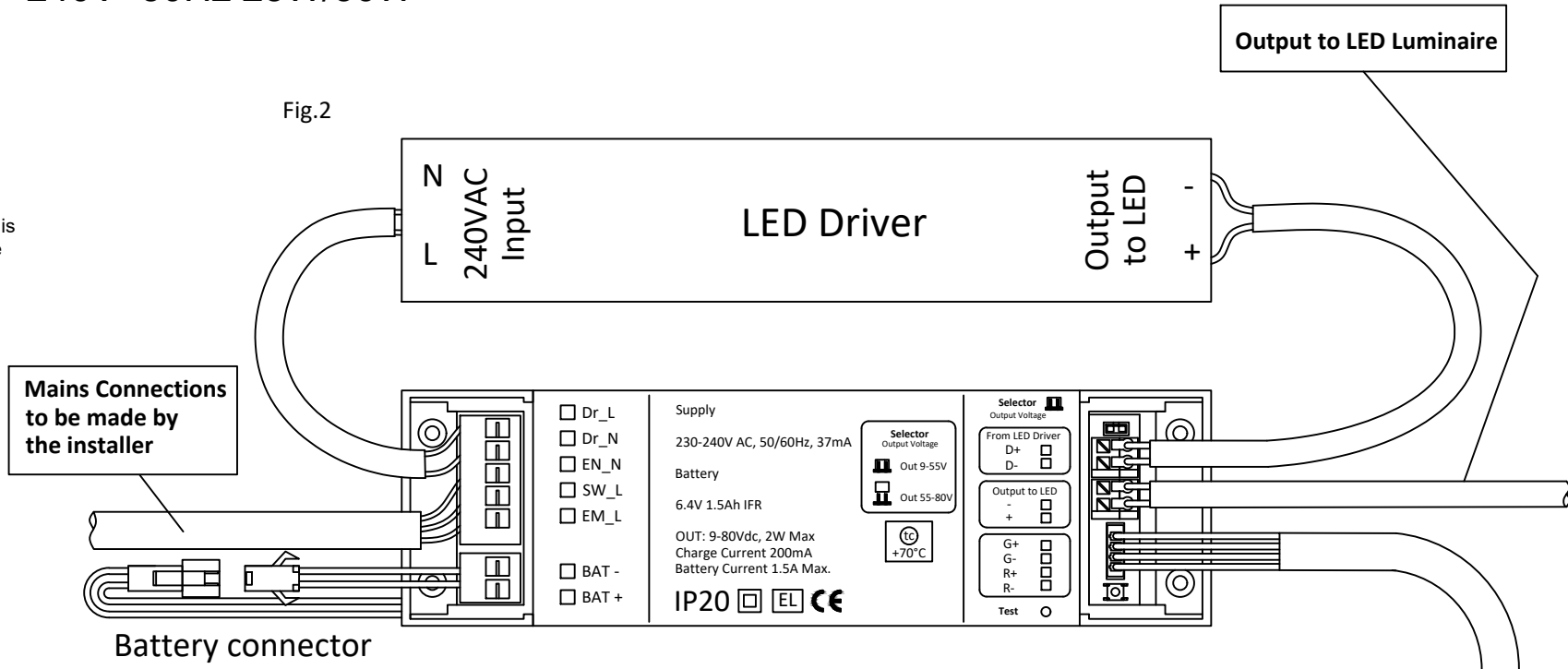
Wire as required (Fig.2):

Maintained Emergency
Connect the mains input Unswitched Live (EM_L), Neutral (EN_N) and Switch Live (SW_L). Then connect the battery. Install the LED indicators in a suitable location. Connect the output to LED luminaire lead to the luminaire.

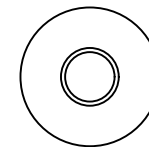
Please note:
For manual testing purposes a provision is made inside the cover of the low voltage side of the driver (Fig.1) marked as Test on the casing. See overleaf for details on manual testing.

Install emergency label supplied on luminaire to be visible in normal use. Turn on the power and ensure that the module is showing charge indicator. This fitting requires a minimum 24 Hour initial charge period prior to any manual emergency testing, please see overleaf for testing routine, write on the battery label in permanent ink the date of commissioning. All results must be recorded and left with the end user.

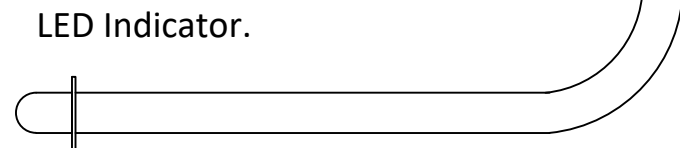
The battery has a rated duration of at least 4 years but should be replaced if the duration of operation is less than 3 hours after a 24hr charge time with no interrupted supply.



Status LED - Green & Red within 1 LED - Can be fitted into the back of the fitting as shown in Fig.1 or fitted into adjacent tile using the LED holder provided.



LED Holder.



LED Indicator.



Warranty

The LED luminaire comes complete with a 60 month warranty from date of purchase unless otherwise stated. Please note that the emergency packs and batteries come with a 36 month fixed warranty. Should any claim be made against battery failure within the warranty period, full and complete maintenance test reports must be provided.

Self Test Emergency Inspection/Testing Instructions

All full duration tests should be where possible be undertaken at times of low risk adjacent emergency luminaires we recommend that you you reset the inbuilt timer or run a manual 30 day test on alternate emergency luminaires to stagger testing times. Once commissioned fill in the date of the first test/install date this will allow the end user to monitor and record subsequent test information on the supplied report. All tests with the exception of the visual inspection will be completed automatically at the relevant times including battery charge condition and lamp status.

Daily:

Visual inspection of the battery charge LED.

Automatic Monthly (Every 30 Days):

(in addition to the daily check) The results of the short duration test shall be recorded.

Automatic Annually (Every 180 & 360 Days):

(in addition to the daily check) The results of the full duration tests shall be recorded.

A copy of this report must accompany any emergency pack returned to KSR Lighting for any reason.

Performance Indicators	
Normal Operation	Red LED off, Green LED Solid
Automatic 30 Day Test	Red LED off, Green LED flashing once a second
Automatic 180/360 Day Test	Red LED off, Green LED flashing twice a second
Manual Simulated Power Failure	Red LED off, Green LED off
Manual 30 Day Test	Red LED off, Green LED flashing once a second
Manual 180/360 Day Test	Red LED off, Green LED flashing twice a second
Manual Fast Test (24 minutes)	Red LED off, Green LED four times a second

Manual Testing - Can only be completed under mains conditions	
Manual Simulated Power Failure	Hold test button until you hear 1 beep
Manual 30 Day Test	Hold test button until you hear 2 beeps
Manual 180/360 Day Test	Hold test button until you hear 3 beeps
Manual Fast Test (24 minutes)	Hold test button until you hear 4 beeps
Abort Test	Hold test button for 1 second
Reset Inbuilt Timer	Hold test button for 15 seconds long beep

Fault Indicators	
Battery/Charging Fault	Red LED flashing once a second, Green LED off, Beeps twice every minute until fault rectified
Lamp Fault	Red LED flashing twice a second, Green LED off, Beeps twice every minute until fault rectified
Failed Duration Test	Red LED solid, Green LED off, Beeps twice every minute until fault rectified

Fault Indicator - **LED SOLID RED**

This means the batteries have been totally depleted and will require a hard reset - This is done by, with the unit still fully powered, unplug the battery connector and plug back in. If this does not resolve the issue, please call KSR Aftersales.



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