



Available Finish: White Only

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

IP44 230V-240VAC~50/60Hz 18W

These fittings are Class II and do not require an Earth

## Important Information

It is recommended that these luminaires are installed and fitted by a qualified electrician ensuring the installation complies with current IEE 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 - +35°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 IP44 from the front only and is suitable for indoor use only and should not be fitted to damp or wet surfaces such as freshly plastered or painted ceilings. Do not use Megger or similar high voltage instruments. Due to the fact this luminaire contains electronic components that maybe 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 recommends that a sample hole is cut in some scrap material to familiarise yourself with the installation. Once you are completely satisfied:

Locate the area's suitable to install these luminaires.

Cut a round hole following the guide below and ensure there is sufficient ceiling void without infringing on joists, water pipes or electrical cables.

Connect your mains supply to the LED driver, (L) Live - Brown & (N) Neutral - Blue.

These fittings are Class II and do not require an earth connection.

Switch the CCT switch on the back to the colour required.

Place the LED driver into the ceiling void, push back the two spring clips and offer the luminaire in to the cutout, carefully release the springs and allow them to pull the fitting into place as shown in Fig. 1.

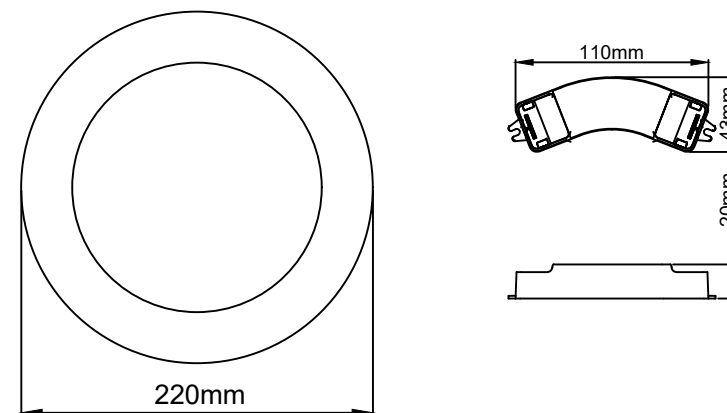
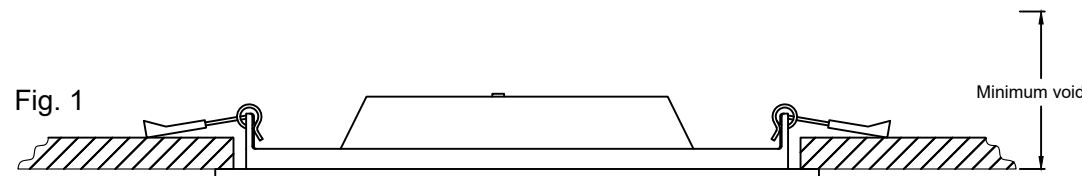
Ensure there is adequate free air ventilation around the driver and head unit.

Turn on the mains supply to test the luminaire.

These fittings as standard are Non Dimmable.

**\*Please note: Depending on the amount of LED fittings on a circuit you may have to upgrade the breaker to a 'C' or 'D' type due to the way electronic LED drivers start up with higher inrush currents compared to halogen lighting.**

Fig. 1



|         | ØRim Size | ØCut out | Void Depth Req'd | LED Wattage - Colour (Lumens) |
|---------|-----------|----------|------------------|-------------------------------|
| KSR9802 | 220mm     | 205mm    | 60mm             | 18W - 3000K (1260 lumens)     |
|         |           |          |                  | 18W - 4000K (1409 lumens)     |
|         |           |          |                  | 18W - 6000K (1308 lumens)     |

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



KSR Lighting Aftersales: 023 92 674343

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## 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.1):

### Non-Maintained Emergency

Connect the mains input Unswitched Live (EM\_L), Neutral (EN\_N). The low voltage side just requires output to the LED luminaire positive (+) and negative (-). Then connect the battery. Install the LED indicators in a suitable location.

### Maintained Emergency

Connect the mains input Unswitched Live (EM\_L), Neutral (EN\_N) and Switch Live (SW\_L). Connect the Live out (Dr\_L) and Neutral out (Dr\_N) to the driver mains input. The low voltage side connect the output from the LED driver to the from LED Driver positive (D+) and Negative (D-) luminaire output to the LED luminaire positive (+) and negative (-). Then connect the battery. Install the LED indicators in a suitable location.

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.

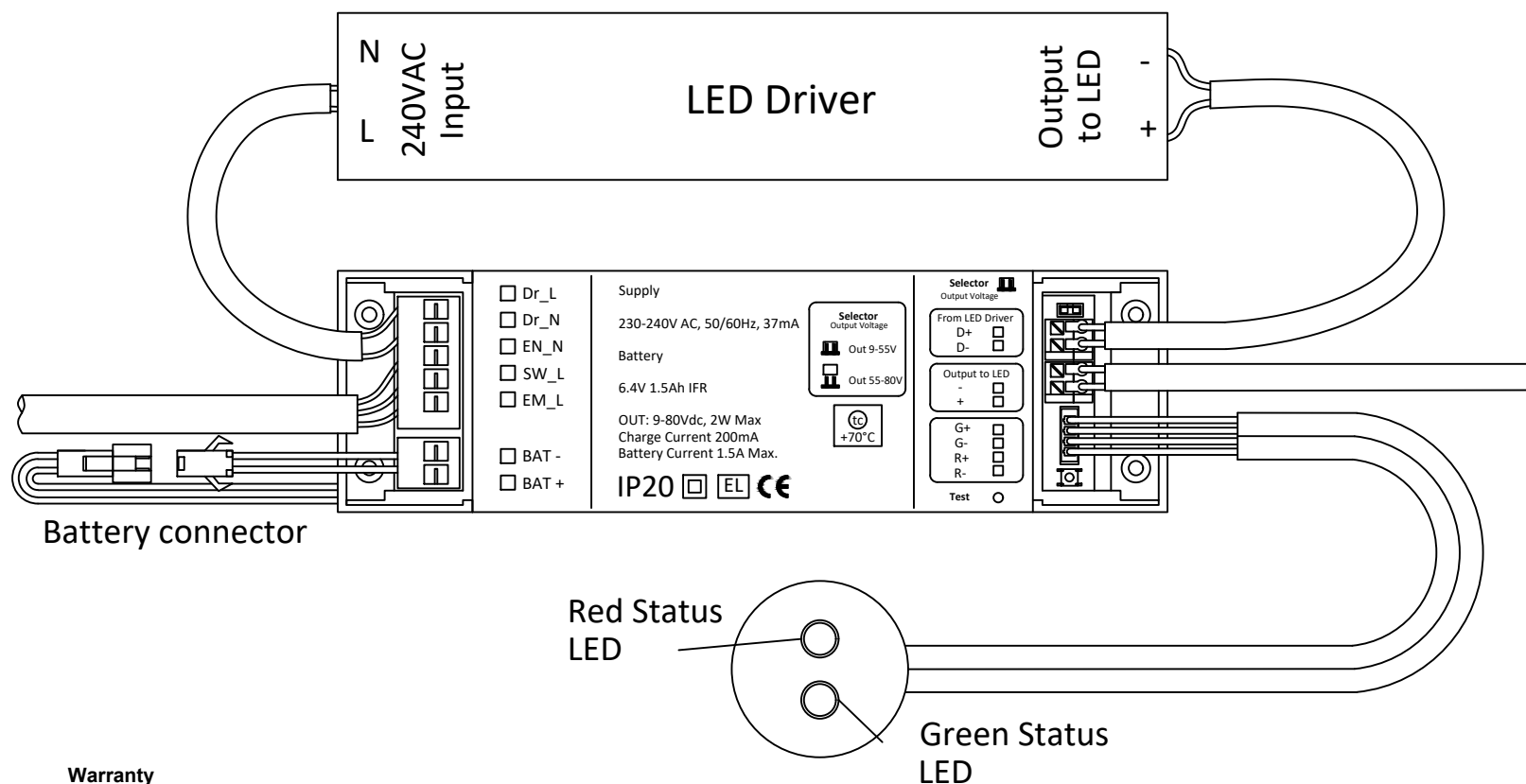
Install emergency label supplied on luminaire to be visible in normal use. Turn on the power and ensure that the module is showing charge indicator.

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.

Input from mains supply

Output to LED Luminaire



### Warranty

The LED luminaire comes complete with a 36 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.



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## 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                   |



# KSR Lighting Self Test Emergency Install/Inspection/Test Record



|                     |                      |
|---------------------|----------------------|
| Product Code:       | Product Description: |
| Product Location:   |                      |
| Commissioning Date: | Commissioned By:     |

| Month | Test     | Year: |      | Year: |      | Year: |      | Year: |      | Year: |      |
|-------|----------|-------|------|-------|------|-------|------|-------|------|-------|------|
|       |          | Sign  | Date | Sign  | Date | Sign  | Date | Sign  | Date | Sign  | Date |
| 01    | Function |       |      |       |      |       |      |       |      |       |      |
| 02    | Function |       |      |       |      |       |      |       |      |       |      |
| 03    | Function |       |      |       |      |       |      |       |      |       |      |
| 04    | Function |       |      |       |      |       |      |       |      |       |      |
| 05    | Function |       |      |       |      |       |      |       |      |       |      |
| 06    | Duration |       |      |       |      |       |      |       |      |       |      |
| 07    | Function |       |      |       |      |       |      |       |      |       |      |
| 08    | Function |       |      |       |      |       |      |       |      |       |      |
| 09    | Function |       |      |       |      |       |      |       |      |       |      |
| 10    | Function |       |      |       |      |       |      |       |      |       |      |
| 11    | Function |       |      |       |      |       |      |       |      |       |      |
| 12    | Duration |       |      |       |      |       |      |       |      |       |      |