



Available finishes: White or Black

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

IP20/IP44 240V~50Hz 13-26W

These fittings are Class II: Double Insulated, No Earth required

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 safely isolate the mains supply before fitting or 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. 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 luminaire, 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. Locate the area's suitable to install these luminaires.

Cut a 121mm hole in the ceiling and ensure you have sufficient ceiling void without infringing on joists, water pipes or electrical cables.

Insert the LED module into the rim option chosen, twist and lock to secure module to the rim.

Connect and wire as per wiring diagram overleaf

As per Fig.1 Install the driver and EM Pack into the void ensuring adequate free space 75mm all around and 25mm above the fitting. The module, driver or EM pack should NOT be covered in insulation.

Press the retaining springs back and locate luminaire body into aperture.

Where applicable Tilt to the required angle.

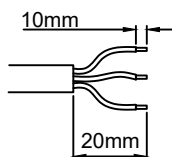
Turn on the mains supply to test the luminaire.

*Please note: Depending on the amount of luminaires on a circuit you may have to upgrade the breaker to allow for inrush currents.

Fig. 1

Installer Note:

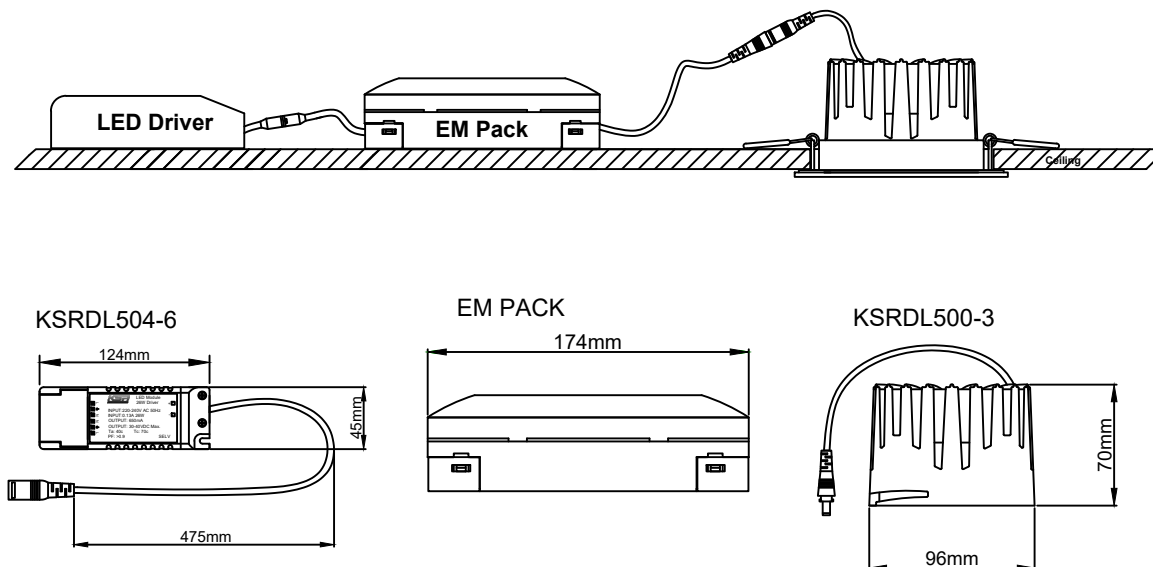
To ensure a good connection strip back 10mm of insulation and push the cable firmly into the terminal block.



KSR Lighting Aftersales: 023 92 674343
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Fig. 1



Part no.s	Description	Cut out	Void Depth Required	Beam Angle	CCT	Lumen output
KSRDL500/1 + KSRDL504 + KSRDL507-18	13W LED Downlight	121mm	100mm or 125mm for KSRDL509/510 and KSRDL515/516	55°	3000K	1200lm
					4000K	1320lm

Part no.s	Description	Cut out	Void Depth Required	Beam Angle	CCT	Lumen output
KSRDL502/3 + KSRDL505 + KSRDL507-18	18W LED Downlight	121mm	100mm or 125mm for KSRDL509/510 and KSRDL515/516	55°	3000K	1830lm
					4000K	1975lm

Part no.s	Description	Cut out	Void Depth Required	Beam Angle	CCT	Lumen output
KSRDL502/3 + KSRDL506 + KSRDL507-18	26W LED Downlight	121mm	100mm or 125mm for KSRDL509/510 and KSRDL515/516	55°	3000K	2465lm
					4000K	2545lm

The Light Source of these Luminaires is not replaceable; when the light source reaches its end of Life the whole Luminaire shall be replaced



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IP20/IP44 240V~50Hz 13-26W

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.

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

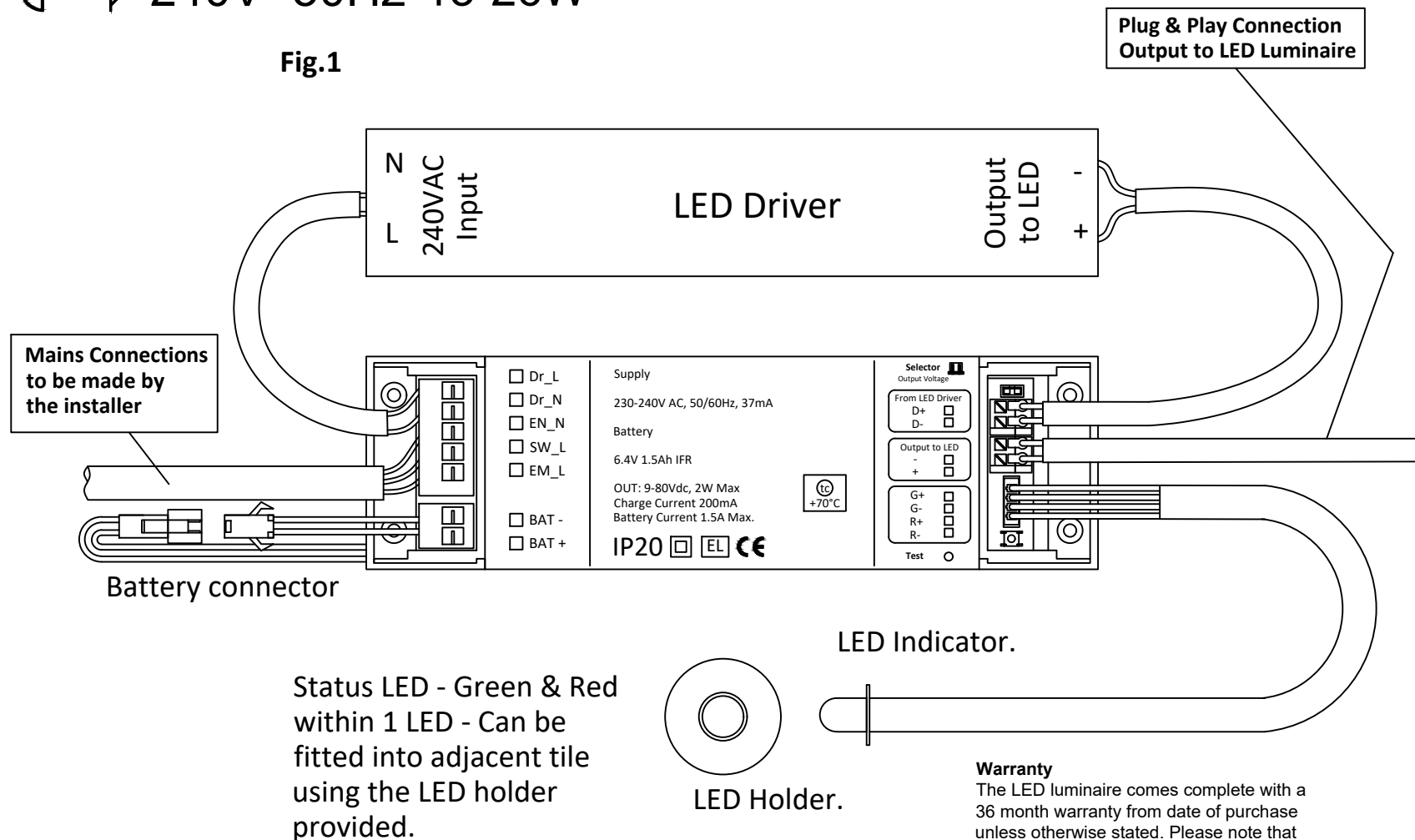
Connect the mains input Unswitched Live (EM_L), Neutral (EN_N) and Switch Live (SW_L). Connect the Live out (Dr_L) and Neutral out (Dr_N) to the driver mains input. The low voltage side connect the output from the LED driver to the from LED Driver positive (D+) and Negative (D-) luminaire output to the 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.

Fig.1



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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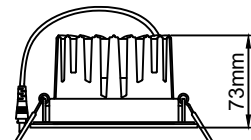
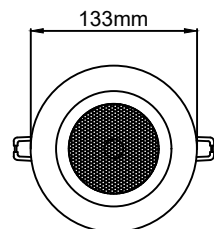


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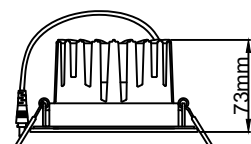
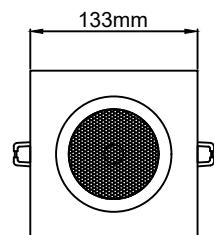
Available finishes: White or Black

Fixed Rim Options - IP44

KSRDL507-508

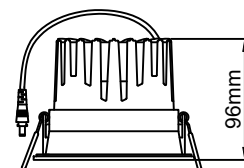
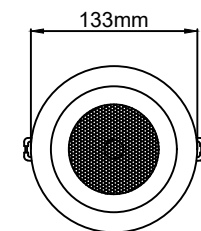


KSRDL513-514

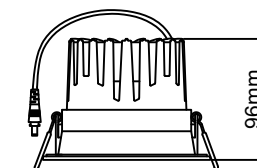
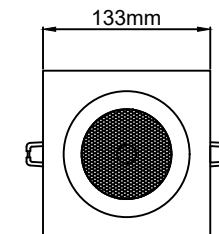


Baffle Rim Options - IP44

KSRDL509-510

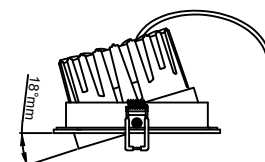
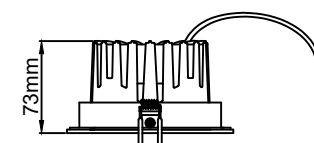
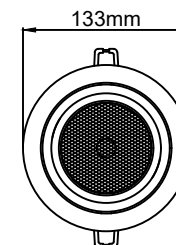


KSRDL515-516

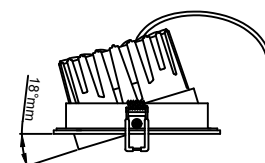
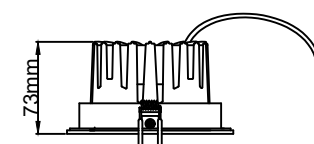
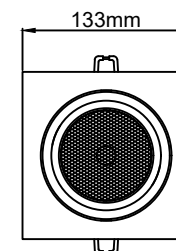


Tilt Rim Options - IP20

KSRDL511-512



KSRDL517-518



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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KSR Lighting Self Test Emergency Install/Inspection/Test Record



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

[illegible]