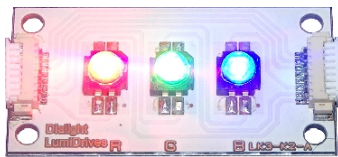


LinkLED™-K2

Plug-n-Play LED System

Solid-State RGB and RGBW LED units, based on the latest high-power K2 LED technology mounted on high-spec. aluminium-backed PCBs, with output of deep saturated colours to enable OEMs to easily create full colour-change applications. Designed for use with low-voltage, constant-current power supplies, such as Colourdriver 36 and Colourdriver XP.



LinkLED-K2-RGB



LinkLED-K2-RGBW



LinkLED Optic-K2-RGB



LinkLED Optic-K2-RGBW

Features / Benefits

- **Long Life** - LinkLED™ K2 light modules offer up to 50,000 hrs. virtually maintenance-free, energy efficient operation.
- **UV / IR Safe** - LinkLED™ K2 light modules emit no UV or IR radiation, so is suitable to illuminate light-sensitive materials or products.
- **Plug and Play** Allows ease of connection and versatility of system to suit multiple applications.
- **Visual Effect** - LinkLED™ K2 light modules provide high colour saturation and brilliance and enable the creation of any colour in the spectrum.
- **Onboard Optics** LinkLED™ K2 light modules are available with or without optics. OPT-K2 optics, where fitted are specifically designed for K2 LEDs.
- **Cables** - Interconnecting and input cables are available for the LinkLED K2 light modules (see overleaf).

Environmental

Maximum Ambient Temp **+40°C**
 LED Life @ 55°C PCB Temperature **50,000 Hrs**

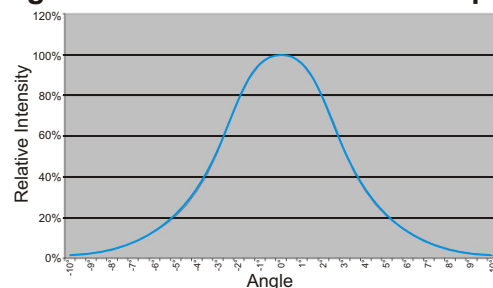
Applications

- **Architectural Lighting.**
- **Cove and Cornice Lighting.**
- **Decorative.**
- **Accent Lighting.**
- **Colour Washing**
- **Night Clubs, Restaurants and Bars**

Optical

LED Colour	Wavelength/ CCT		Luminous Flux or Radiometric Power (lm or mW)		
	Min.	Max.	350mA	700mA	1000mA
Red	620nm	645nm	36 lm	60 lm	-----
Green	520nm	550nm	36 lm	62 lm	80 lm
Blue	440nm	460nm	176mW	294 mW	380 mW
White	4500°K	10000°K	36 lm	62 lm	80 lm
Amber	584nm	597nm	36 lm	60 lm	-----

Light Distribution Curve for K2 Optic

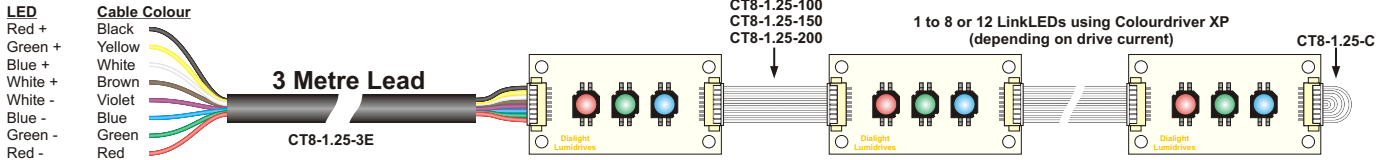
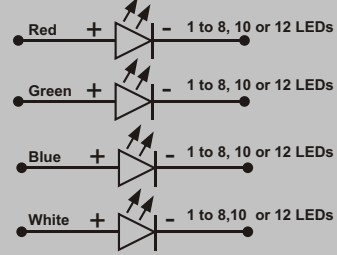


Electrical

Part Number	LED Colour	Max. Fwd Voltage	Max. Current (mA)
LK3-K2-RGB	Red	3.60	700mA
LK4-K2-RGBA	Green	4.95	1000mA
LKOP-K2-RGB	Blue	4.95	1000mA
LKOP-K2-RGBA	White	4.95	1000mA
LKOP-K2-RGBW	Amber	3.60	700mA

Circuit Configuration

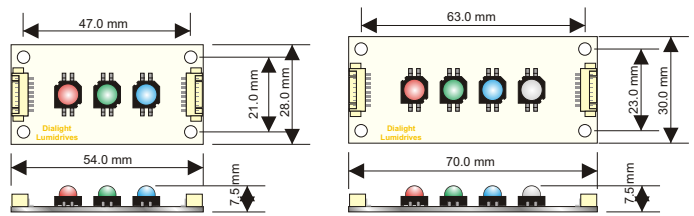
4 Channels of K2 LEDs (using Colourdriver XP)



LinkLED K2 - Connection Detail

Mechanical Specification

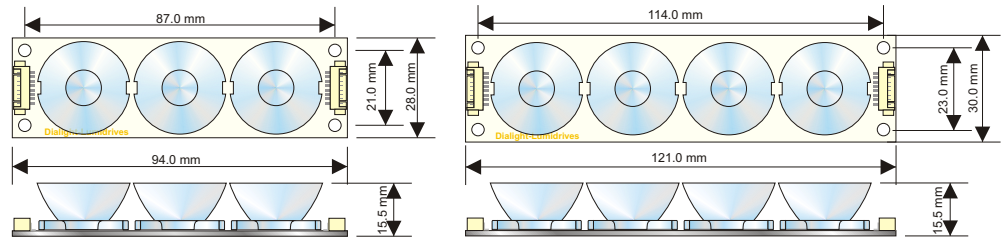
LinkLED K2	RGB	RGBW	RGB-OP	RGBW-OP
Length (mm)	54.0	70.0	94.0	121.0
Width (mm)	28.0	30.0	28.0	30.0
Height (mm)	7.5	7.5	15.5	15.5
Weight (gm)	9.0	12.0	27.0	37.0
PCB Finish	Aluminium Substrate / White Finish			
Fixing Method	4 x M3 Screws or suitable thermal adhesive.			
N.B	Secondary heatsinking required.			



LinkLED RGB-K2

LinkLED RGBW-K2

Lenses used on LinkLED Optic-K2 are:
OPK2-1-003 Spot Base Lens $\pm 3^\circ$
Clip-On Sub-Lenses are also available
(see Accessories)



LinkLED RGB Optic-K2

LinkLED RGBW Optic-K2

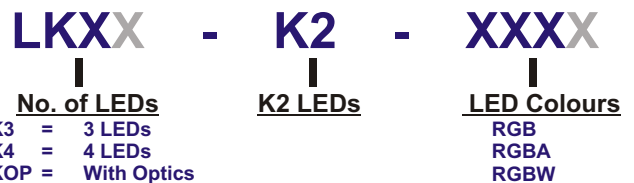
Compatible Drivers

LinkLED	Driver	Max LinkLEDs.
RGB	CDURF-3-35	6
	CDU-L-3-35-DMX	12
	CDU-XP-DMX-CON-IP	12 (350mA) 10 (700mA) 8 (1000mA)
RGBW	CDU-XP-DMX-CON-IP	12 (350mA) 10 (700mA) 8 (1000mA)

Application Notes

- OEMs who wish to use their own driver solution should consult the datasheet for the Luxeon K2 emitters together with the thermal design guide.
- The LinkLED-K2 Light Modules may require secondary heatsinking.
- Red and amber channels should not be driven at more than 700mA.

Product Identification



Accessories

Order Code	Description	
CT8-1.25-3E	LinkLED-K2 Input Lead	
CT8-1.25-100	LinkLED-K2 100mm Connection Lead	
CT8-1.25-150	LinkLED-K2 150mm Connection Lead	
CT8-1.25-200	LinkLED-K2 200mm Connection Lead	
CT8-1.25-C	LinkLED-K2 End Connector	
OPAA-1-DFL	Spot Diffuser Sub-Lens	$\pm 6^\circ$
OPAA-1-WSL	Wide Sub Lens	$\pm 12^\circ$
OPAA-1-OSL	Oval Sub Lens	$\pm 4^\circ \times 27^\circ$

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Output of high-power LEDs is constantly improving, so the type of LED in this product may change to reflect the best performance offered in the LED market.