



614 BI-COLOUR SERIES PANEL INDICATOR LED



FEATURES

- Ø8.1mm mounting
- Dual state LED indicator
- Black anodised aluminium housing
- Sealed to IP67 - weatherproof
- Water clear lens
- Internal potting
- Range of LED colour options
- Range of voltage options

BENEFITS

- 'D' mounting hole aids anti-rotation
- Reduces assembly time and saves panel space
- Suitable for portable equipment
- Suitable for external applications
- Water clear lens gives clear "off" state
- Suitable for high vibration applications
- Suitable for status panel indication
- Manufactured with internal resistor (voltage models)
- Outstanding reliability
- Vandal resistant

Marl Part Number	LED Colour	Typical Voltage Vopr	Typical Current DC Iopr	Typical LED Luminous Intensity	Typical LED Wavelength λ_p	Operating Temp Topr *	Storage Temp Tstg
614-530-04	Red/Green	2.0/2.2 **	20	30	627/565	-40 to +85	-40 to +85
614-530-21	Red/Green	12	20	30	627/565	-40 to +85	-40 to +85
614-530-23	Red/Green	24-28	17-20	26-30	627/565	-40 to +85	-40 to +85
		Vdc (unless stated)	mA	mcd	nm	°C	°C

Dual state is selected by reversing the polarity. Standard polarity: Red - Reverse: Green

NOTES

Intensities (Iv) may vary between LEDs within a batch. Additional LED Colours, Voltage Options and Flying Lead lengths available for semi-custom projects. Please contact our Sales Team. All LED components are supplied in anti-static packaging.

* Characteristics at Ta = 25°C. For operating temperature derating graphs, please refer to sheet 2.

** These are Current models and the voltage shown is Vf at 20mA, not Vopr. Current models require a suitable in-line resistor.

To order please contact us on +44 (0) 1229 582 430
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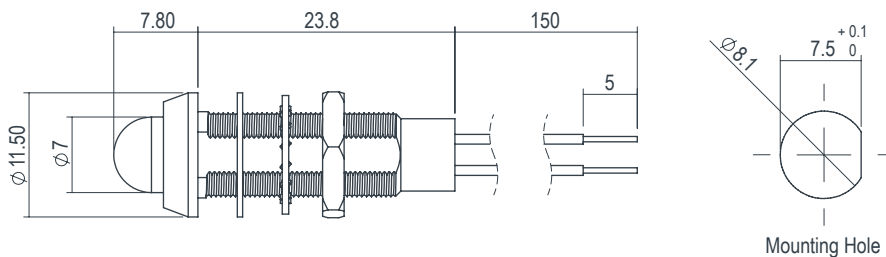
TECHNICAL CHARACTERISTICS

Series	Max. Power Dissipation	Panel Cutout	Nut Mounting Torque	Min. Mounting Centres	Min - Max. Panel Thickness
614	700	8.1	0.6	14.5	1.5 - 13.0
	mW	mm	Nm	mm	mm

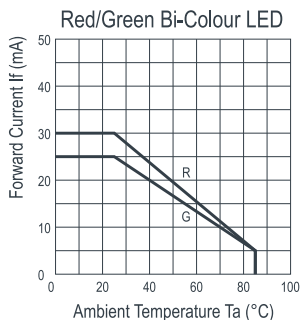
TECHNICAL DRAWING

Weight (g): 6.3

Dimensions in mm (typical). Not to scale. Mounting hole to be clean and burr free. Red wire: Anode. Black wire: Cathode.



DE-RATING GRAPH



MATERIALS

Body	Black Anodised Aluminium
Nut	Nickel Plated Brass
Panel Seal	Viton
Fresnel Lens	Polycarbonate
Encapsulation	Black Polyurethane
Lock Washer	Spring Steel

DESIGN CONSIDERATIONS

Electro-Static Discharge (ESD)

Build up of electro-static discharge occurs in many situations involving people moving and handling products. The range of possible situations is very diverse but voltage levels as high as several thousand volts can and do arise in many individual situations. When an operator charged up to these levels handles a static sensitive device, there is a very probable likelihood that the device will be irreversibly damaged. It is essential that precautions are taken at all stages during manufacture and assembly of these products. Although LEDs were never considered to be static sensitive devices, changes in manufacturing

technology and materials used to produce higher intensity products over a large range of the wavelength spectrum have changed this. Marl has an approved system of ESD control from goods in, through production and into final packing and dispatch. Marl recommend all users of LED based products follow the current BSI guidelines for protection of electronic devices from electrostatic phenomena.

Voltage, Current and Temperature

The forward voltage / current value of an LED is dependent upon the ambient temperature of the environment in which

it is operated. Therefore, care must be taken to operate the LED at the correct voltage / current values, depending upon the ambient temperature.

Marl should be contacted if the device is to be operated outside the temperature range specified. Marl accept no liability for any product that is operated outside the stated voltage or temperature range.

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