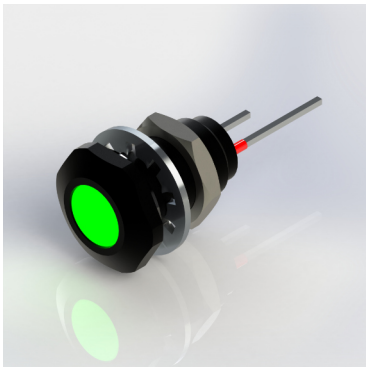
662 SERIES
PANEL INDICATOR LED



FEATURES

- Ø6.35mm mounting
- Black anodised aluminium housing
- Sealed to IP67 - weatherproof
- Colour Diffused lens
- Internal potting
- Range of LED colour options

BENEFITS

- Standard industrial mounting size
- Suitable for portable equipment
- Suitable for external applications
- Diffused lens gives good viewing angle
- Suitable for high vibration applications
- Suitable for status panel indication
- Outstanding reliability
- Vandal resistant

MARL Part Number	LED Colour	Typical Voltage Vf @ 20mA	Typical Current DC If	Typical LED Luminous Intensity	Typical LED Wavelength λp	Operating Temp Topr *	Storage Temp Tstg
662-303-04	Red Std. Intensity	2.0	20	131	627	-40 to +85	-40 to +85
662-309-04	Yellow Std. Intensity	2.1	20	43	590	-40 to +85	-40 to +85
662-312-04	Green Std. Intensity	2.2	20	131	565	-40 to +85	-40 to +85
662-301-04	Red	1.95	20	900	645	-40 to +85	-40 to +85
662-325-04	Yellow	2.0	20	2800	590	-40 to +85	-40 to +85
662-324-04	Green	3.2	20	36100	525	-30 to +85	-40 to +100
662-934-04	Blue	3.2	20	6550	465	-30 to +85	-40 to +100
662-998-04	Cool White	3.2	20	12900	See Below	-30 to +85	-40 to +100
		Vdc	mA	mcd	nm	°C	°C

Typical Emission Colours Cool White LED				
X	0.296	0.283	0.330	0.330
Y	0.276	0.305	0.360	0.318

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.
This product does not include an internal resistor or reverse protection diode, and must be externally limited to 20mA and wired with the correct polarity.

To order please contact us on +44 (0) 1229 582 430
F +44 (0) 1229 585 155 | E sales@marl.co.uk | www.leds.co.uk
company/marl-international-limited

Q 05480

RoHS 2015/863/EU

662 SERIES
PANEL INDICATOR LED

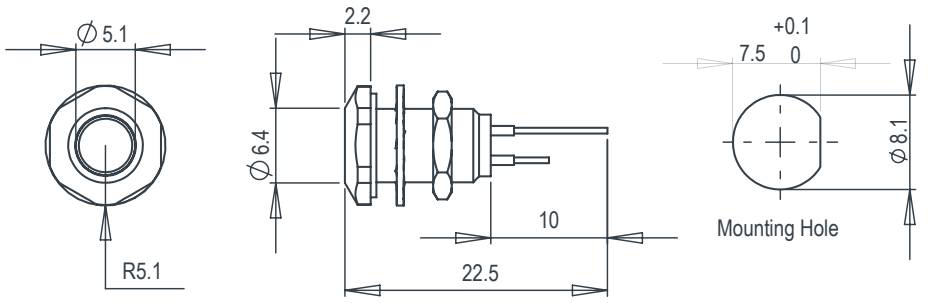
TECHNICAL CHARACTERISTICS

Series	Max. Power Dissipation	Max. Reverse Voltage	Panel Cutout	Nut Mounting Torque	Min. Mounting Centres	Min - Max. Panel Thickness
662	75	5	6.35	0.6	11.0	1.5 - 5.0
	mW	V	mm	Nm	mm	mm

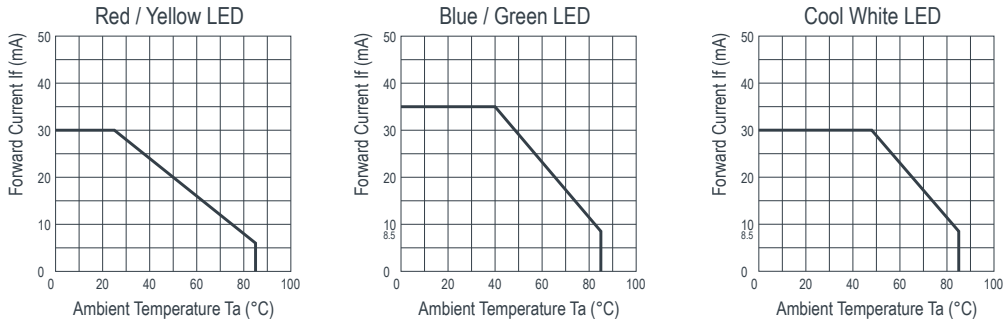
TECHNICAL DRAWING

Weight (g): 5

Dimensions in mm (typical). Not to scale. Mounting hole to be clean and burr free. Anode termination indicated by long pin.



DE-RATING GRAPHS



MATERIALS

Body	Bright Nickel Plated Brass
Nut	Bright Nickel Plated Brass
Panel Seal	Viton
Lens	Polycarbonate
Encapsulation	Black Polyurethane
Lock Washer	Beryllium Copper
Termination	LED Legs

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.

To order please contact us on +44 (0) 1229 582 430
F +44 (0) 1229 585 155 | E sales@marl.co.uk | www.leds.co.uk
company/marl-international-limited