

677 SERIES EMC PANEL INDICATOR LED



FEATURES

- · EMC mesh under lens
- Ø8.1mm mounting
- · Black chrome aluminium housing
- · Sealed to IP67 weatherproof
- · Wide viewing angle smoked lens
- Internal potting
- · Reverse protection diode fitted in all voltage models
- · Range of LED colour options
- · Range of voltage options

BENEFITS

- · Protects against EMI/RFI
- 'D' mounting hole aids anti-rotation
- · Suitable for portable equipment
- · Suitable for external applications
- · Smoked lens gives good on/off contrast ratio
- Suitable for high vibration applications
- · Protects against wrong polarity installation (voltage models)
- · Suitable for status panel indication
- · Manufactured with internal resistor
- · Outstanding reliability
- · Vandal resistant

Marl Part Number	LED Colour	Typical Voltage Vopr	Typical Current DC lopr	Typical LED Luminous Intensity	Typical LED Wavelength λp	Operating Temp Topr *	Storage Temp Tstg
677-501-21-53	Red	12	17	346	619	-40 to +75	-40 to +100
677-521-21-53	Yellow	12	17	330	585	-40 to +75	-40 to +100
677-532-21-53	Green	12	16	1815	520	-40 to +75	-40 to +100
677-930-21-53	Blue	12	16	364	468	-40 to +75	-40 to +100
677-997-21-53	Cool White	12	16	1063	See Below	-40 to +75	-40 to +100
677-501-00-54	Red	16-32	8-19	236-458	619	-40 to +75	-40 to +100
677-521-00-54	Yellow	16-32	Call	Call	585	-40 to +75	-40 to +100
677-532-00-54	Green	16-32	Call	Call	520	-40 to +75	-40 to +100
677-932-00-54	Blue	16-32	Call	Call	468	-40 to +75	-40 to +100
677-997-00-54	Cool White	16-32	Call	Call	See Below	-40 to +75	-40 to +100
677-501-23-53	Red	24-28	16-20	346-458	619	-40 to +75	-40 to +100
677-521-23-53	Yellow	24-28	16-20	330-440	585	-40 to +75	-40 to +100
677-532-23-53	Green	24-28	15-18	1815-2157	520	-40 to +75	-40 to +100
677-930-23-53	Blue	24-28	15-18	364-452	468	-40 to +75	-40 to +100
677-997-23-53	Cool White	24-28	15-18	1063-1359	See Below	-40 to +75	-40 to +100
		Vdc (unless state	Vdc (unless stated) mA		nm	°C	°C

Typical Emission Colours Cool White LED						
Χ	0.275	0.28	0.29			
Υ	0.27	0.28	0.30			

NOTES

Intensities (Iv) and colour shades of white (X-Y co-ordinates) may vary between LEDs within a batch. Additional LED Colours, Voltage Options and Flying Lead lengths available for semicustom 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.





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



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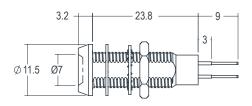
TECHNICAL CHARACTERISTICS

Series	Max. Power Dissipation	Max. Reverse Voltage	Panel Cutout	Nut Mounting Torque	Min. Mounting Centres	Min Max. Panel Thickness
677	700	1000	8.1	0.6	14.5	1.5 - 13.0
	mW	Vdc	mm	Nm	mm	mm

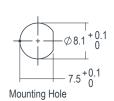
TECHNICAL DRAWING

Weight (g): 5.3

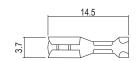
Dimensions in mm (typical). Not to scale. Mounting hole to be clean and burr free. Anode termination denoted by red sleeve.





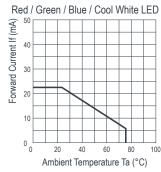


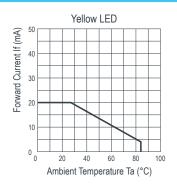
PUSH ON CONNECTOR



925-000-00 is brass tin plated - for use with 677 series lamps. Dimensions in mm (typical). Not to scale.

DE-RATING GRAPHS





MATERIALS

Body Black Chrome Aluminium
Nut Nickel Plated Brass
Panel Seal Conductive Rubber
Fresnel Lens Polycarbonate
Encapsulation Black Polyurethane
Lock Washer Spring Steel
Termination Silver Flash Coated Brass

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 despatch. 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.



