

● PROFESSIONAL LED INDICATORS Ø6.35mm Mounting

**FEATURES**



**610 SERIES**

PACK QUANTITY = 10 PIECES

- Black anodised aluminium housing
- Internal reverse protection diode fitted as standard in all voltage models
- Sealed to IP67
- Flying lead terminations available
- Suitable for high vibration applications

**SPECIFICATION**

Ordering Information & Typical Technical Characteristics (Ta = 25°C)

Mean Time Between Failure = 100,000 Hours. Luminous intensity figures refer to the unmodified discrete LED.

PART NUMBER	COLOUR	LENS	VOLTAGE DC (Vdc) Vopr	CURRENT DC (mA) Iopr	LUMINOUS INTENSITY Iv@20mA (mcd)	WAVE LENGTH λp (nm)	OPERATING TEMP Topr	STORAGE TEMP Tstg		
<b>HIGH INTENSITY</b>										
610-301-21	Red		Water Clear	12	20	900	660	-40 ~ +85 <sup>^</sup>	-40 ~ +85	Yes
610-325-21	Yellow		Water Clear	12	20	4300	590	-30 ~ +85 <sup>^</sup>	-40 ~ +120	Yes
610-324-21	Green		Water Clear	12	20	7800	525	-30 ~ +85 <sup>^</sup>	-40 ~ +100	Yes
610-934-21	Blue		Water Clear	12	20	2300	470	-30 ~ +85 <sup>^</sup>	-40 ~ +100	Yes
610-998-21	Cool White		Water Clear	12	20	4600	see below	-30 ~ +85 <sup>^</sup>	-40 ~ +100	Yes
610-301-23	Red		Water Clear	24-28	20	900	660	-40 ~ +85 <sup>^</sup>	-40 ~ +85	Yes
610-325-23	Yellow		Water Clear	24-28	20	4300	590	-30 ~ +85 <sup>^</sup>	-40 ~ +120	Yes
610-324-23	Green		Water Clear	24-28	20	7800	525	-30 ~ +85 <sup>^</sup>	-40 ~ +100	Yes
610-934-23	Blue		Water Clear	24-28	20	2300	470	-30 ~ +85 <sup>^</sup>	-40 ~ +100	Yes
610-998-23	Cool White		Water Clear	24-28	20	4600	see below	-30 ~ +85 <sup>^</sup>	-40 ~ +100	Yes
<b>UNITS</b>			<b>Vdc</b>	<b>mA</b>	<b>mcd</b>	<b>nm</b>	<b>°C</b>	<b>°C</b>		



Other voltages AC/DC available. Please contact our Technical Sales.

<sup>^</sup> = Products must be derated according to the derating information. Each derating graph refers to specific LEDs.

<b>998</b>	*Typical emission colour cool white			
x	0.296	0.283	0.330	0.330
y	0.276	0.305	0.339	0.318

Intensities (Iv) and colour shades of white (x,y co-ordinates) may vary between LEDs within a batch.

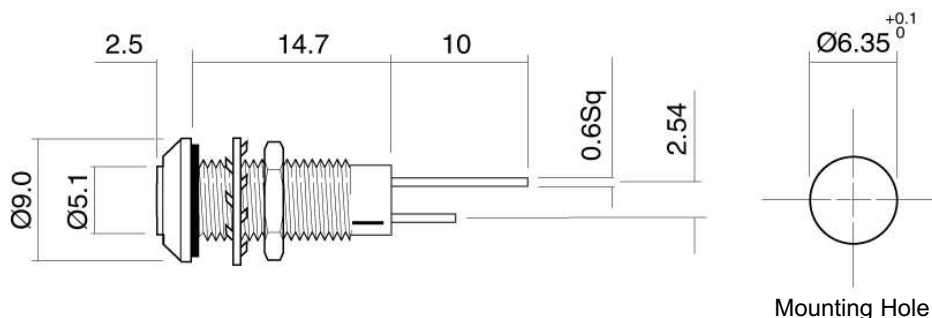
**How to Order:**

website: [www.marl.co.uk](http://www.marl.co.uk) • email: [sales@marl.co.uk](mailto:sales@marl.co.uk) •

• Telephone +44 (0)1229 582430 • Fax: +44 (0)1229 585155

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## 610 Series



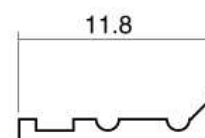
Dimensions in mm (Typical)  
Not to scale

Anode termination indicated by long pin.  
Mounting hole to be clean and burr free

### MATERIALS

### PUSH-ON CONNECTORS

Body	Black Anodised Aluminium
Nut	Bright Nickel Plated Brass
Panel Seal	Viton
Termination Tags	Tin Plated Phosphor Bronze
Fresnel lens	Polycarbonate
Encapsulation	Epoxy
Lock Washer	Spring Steel



909-000-00 is gold plated.  
910-000-00 is tin plated.  
For use with 610 series lamps.

Dimensions in mm (Typical)  
Not to scale

### TECHNICAL CHARACTERISTICS

SERIES	MAXIMUM POWER DISSIPATION	MAXIMUM REVERSE VOLTAGE	PANEL CUTOUT	NUT MOUNTING TORQUE	MINIMUM MOUNTING CENTRES	MIN/MAX. PANEL THICKNESS
610	500	3* / 75•	6.35	0.6	x,y = 11.0	1.5-7.0
	mW	Vdc	mm	Nm	mm	mm

\* = Current Version • = Voltage Version

### OPTIONAL FLYING LEAD TERMINATIONS

ORDER CODE SUFFIX	SUPPLY VOLTAGE	WIRE COLOUR	WIRE LENGTH	NO/DIAMETER OF CONDUCTORS	DIAMETER OVER INSULATION	COMMENTS
15	DC Products	Red-anode / Black-cathode	150mm	19/0.15mm	1.2mm	Customised lengths available
15	AC Products	Brown-live / Blue-neutral	150mm			
19	DC Products	Red-anode / Black-cathode	1000mm			
19	AC Products	Brown-live / Blue-neutral	1000mm			

website: [www.marl.co.uk](http://www.marl.co.uk) • email: [sales@marl.co.uk](mailto:sales@marl.co.uk) •

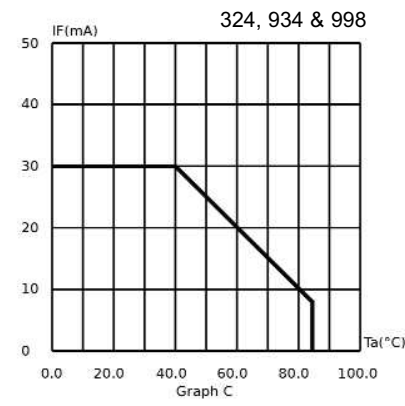
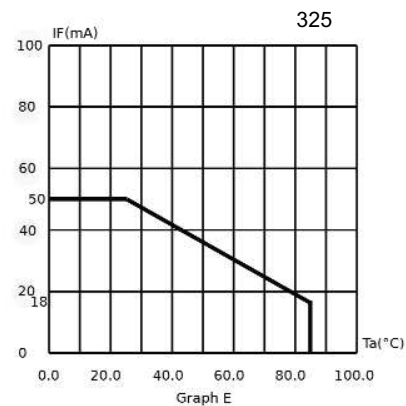
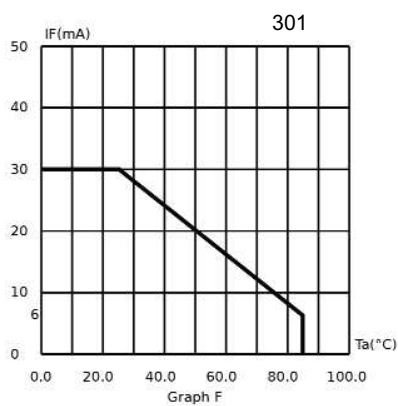
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BS EN ISO 9001:2000  
Approved Manufacturer

## DERATING INFORMATION



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