

● 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		
HIGH INTENSITY										
610-301-21	Red		Water Clear	12	20	900	660	-40 ~ +85^	-40 ~ +85	Yes
610-325-21	Yellow		Water Clear	12	20	4300	590	-30 ~ +85^	-40 ~ +120	Yes
610-324-21	Green		Water Clear	12	20	7800	525	-30 ~ +85^	-40 ~ +100	Yes
610-934-21	Blue		Water Clear	12	20	2300	470	-30 ~ +85^	-40 ~ +100	Yes
610-998-21	Cool White		Water Clear	12	20	4600	see below	-30 ~ +85^	-40 ~ +100	Yes
610-301-23	Red		Water Clear	24-28	20	900	660	-40 ~ +85^	-40 ~ +85	Yes
610-325-23	Yellow		Water Clear	24-28	20	4300	590	-30 ~ +85^	-40 ~ +120	Yes
610-324-23	Green		Water Clear	24-28	20	7800	525	-30 ~ +85^	-40 ~ +100	Yes
610-934-23	Blue		Water Clear	24-28	20	2300	470	-30 ~ +85^	-40 ~ +100	Yes
610-998-23	Cool White		Water Clear	24-28	20	4600	see below	-30 ~ +85^	-40 ~ +100	Yes
UNITS			Vdc	mA	mcd	nm	°C	°C		

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

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

998	*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.

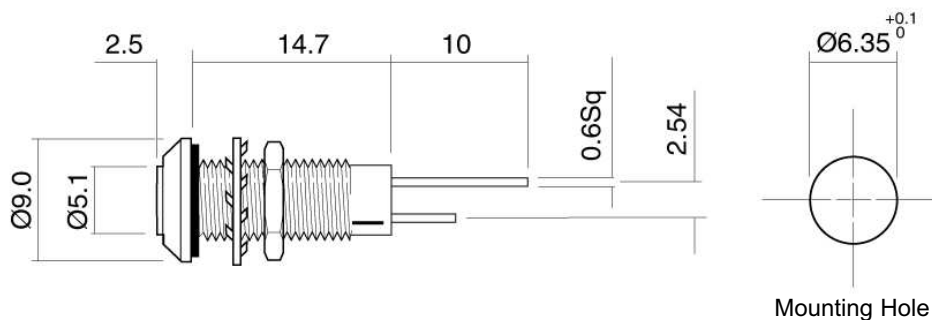
How to Order:

website: www.marl.co.uk • email: sales@marl.co.uk •

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

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610 Series



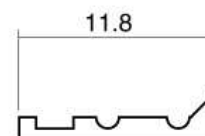
Dimensions in mm (Typical)
Not to scale

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

MATERIALS

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

PUSH-ON CONNECTORS



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 mW	3* / 75* Vdc	6.35 mm	0.6 Nm	x,y = 11.0 mm	1.5-7.0 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			

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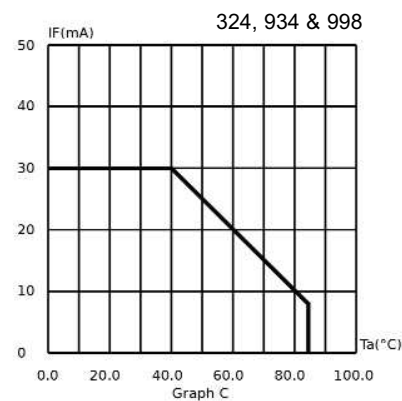
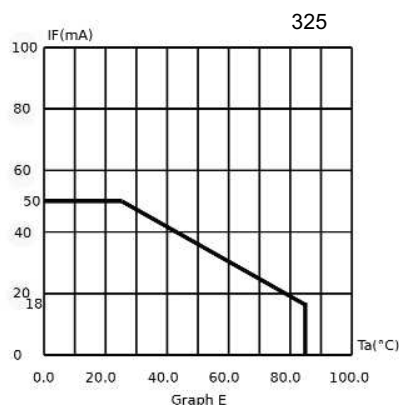
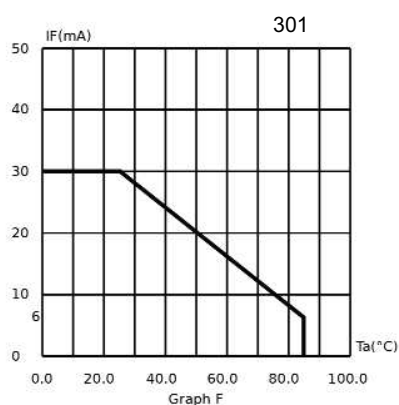
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BS EN ISO 9001:2000
Approved Manufacturer

DERATING INFORMATION



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