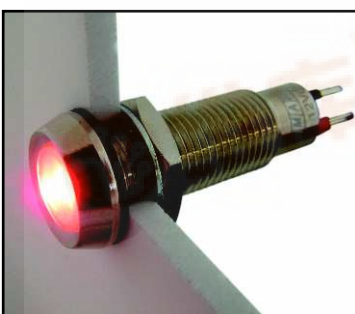


PROFESSIONAL LED INDICATORS Ø8.1mm Mounting



508 SERIES

PACK QUANTITY = 10 PIECES

FEATURES

- Bright nickel plated brass housing
- Low profile styling
- Sealed to IP67
- Domed lens available
- Suitable for high vibration applications
- Internal reverse protection diode fitted as standard in all voltage models.

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 | RoHS 2002/95/EC |
|----------------|------------|--------|-----------------------------|----------------------------|--|---------------------------|---------------------------|-------------------------|--------------------|
| HIGH INTENSITY | | | | | | | | | |
| 508-501-21 | Red | Smoked | 12 | 19 | 11000 | 643 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 508-521-21 | Yellow | Smoked | 12 | 19 | 16000 | 591 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 508-532-21 | Green | Smoked | 12 | 20 | 23000 | 527 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 508-930-21 | Blue | Smoked | 12 | 20 | 7000 | 470 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 508-997-21 | Cool White | Smoked | 12 | 20 | 14000 | *see below | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 508-501-23 | Red | Smoked | 24-28 | 20 | 11000 | 643 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 508-521-23 | Yellow | Smoked | 24-28 | 20 | 16000 | 591 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 508-532-23 | Green | Smoked | 24-28 | 20 | 23000 | 527 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 508-930-23 | Blue | Smoked | 24-28 | 20 | 7000 | 470 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 508-997-23 | Cool White | Smoked | 24-28 | 20 | 14000 | *see below | -40 ~ +95 [^] | -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.

| | | | | |
|--|-------|-------|-------|-------|
| 997F-C *Typical emission colour cool white | | | | |
| x | 0.245 | 0.361 | 0.356 | 0.264 |
| y | 0.229 | 0.385 | 0.351 | 0.220 |

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

How to Order:

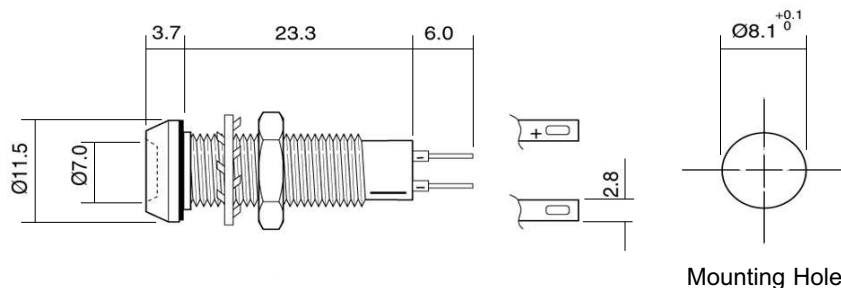
website: www.marl.co.uk • email: sales@marl.co.uk •

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

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508 Series



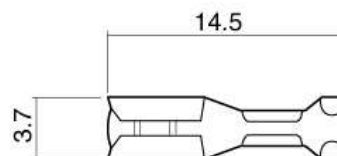
Dimensions in mm (Typical)
Not to scale

Anode termination indicated by red sleeve
Mounting hole to be clean and burr free

MATERIALS

| | |
|---------------|---|
| Body | Brass to BS 2874 CZ121 Nickel plated to BS 1224 |
| Nut | Brass to BS 2874 CZ121 nickel plated to BS 1224 |
| Panel Seal | Viton |
| Termination | Brass to BS 2874 CZ108 Copper flash undercoat with silver flash finish |
| Lock Washer | Zinc plated steel |
| Fresnel lens | Polycarbonate |
| Encapsulation | PC5430 resin |

PUSH-ON CONNECTORS



925-000-00 is brass tin plated.
For use with 508 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 |
|--------|---------------------------|-------------------------|--------------|---------------------|--------------------------|--------------------------|
| 508 | 700 | 3* / 1000• | 8.1 | 0.65 | x,y=14.5 | 1.5-13.0 |
| | 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 | | | |

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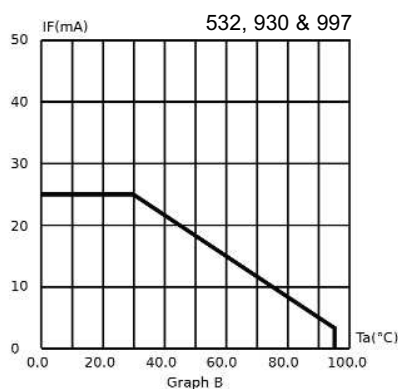
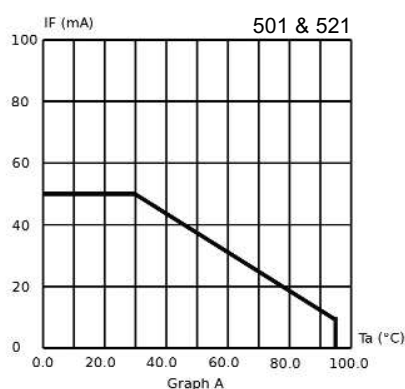
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DERATING INFORMATION



ALSO AVAILABLE

Part numbers also available in the 508 Series:

| PART NO. | COLOUR | VOLTAGE DC (Vdc) Vopr |
|---------------|--------|--------------------------|
| 508-501-04 | Red | 20mA |
| 508-501-20 | Red | 5/6 Vdc |
| 508-501-22 | Red | 24 Vdc |
| 508-502-21-29 | Red | 12 Vdc |
| 508-502-75 | Red | 110 Vac |
| 508-521-04 | Yellow | 20mA |
| 508-521-21-29 | Yellow | 12 Vdc |
| 508-521-22 | Yellow | 24 Vdc |
| 508-521-75 | Yellow | 110 Vac |
| 508-532-04 | Green | 20mA |
| 508-532-20 | Green | 5/6 Vdc |
| 508-532-22 | Green | 24 Vdc |
| 508-532-22-15 | Green | 24 Vdc |
| 508-532-22-50 | Green | 24 Vdc |
| 508-532-22-51 | Green | 24 Vdc |
| 508-930-22 | Blue | 24 Vdc |
| 508-997-04 | White | 20mA |
| 508-997-22 | White | 24 Vdc |
| UNITS | | |

The products listed above illustrate all of the options available to order. These products may have custom modifications that alter their operation beyond the generic information contained within this datasheet. Please contact sales for further information.

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