

● PROFESSIONAL LED INDICATORS Ø13mm Mounting

FEATURES



528 SERIES

PACK QUANTITY = 10 PIECES

- Robust stainless steel housing
- Low profile styling, sunlight readable LEDs
- Sealed to IP67
- Flying lead terminations 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 | | |
|-----------------------|------------|------|--------------------------|-------------------------|-------------------------------------|------------------------|------------------------|------------------------|------------|-----|
| HIGH INTENSITY | | | | | | | | | | |
| 528-501-21 | Red | | Colour Diffused | 12 | 19 | 11000 | 643 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 528-521-21 | Yellow | | Colour Diffused | 12 | 19 | 16000 | 591 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 528-532-21 | Green | | Colour Diffused | 12 | 20 | 23000 | 527 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 528-930-21 | Blue | | Colour Diffused | 12 | 20 | 7000 | 470 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 528-997-21 | Cool White | | Colour Diffused | 12 | 20 | 14000 | *see below | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 528-501-23 | Red | | Colour Diffused | 24-28 | 20 | 11000 | 643 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 528-521-23 | Yellow | | Colour Diffused | 24-28 | 20 | 16000 | 591 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 528-532-23 | Green | | Colour Diffused | 24-28 | 20 | 23000 | 527 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 528-930-23 | Blue | | Colour Diffused | 24-28 | 20 | 7000 | 470 | -40 ~ +95 [^] | -40 ~ +100 | Yes |
| 528-997-23 | Cool White | | Colour Diffused | 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 •

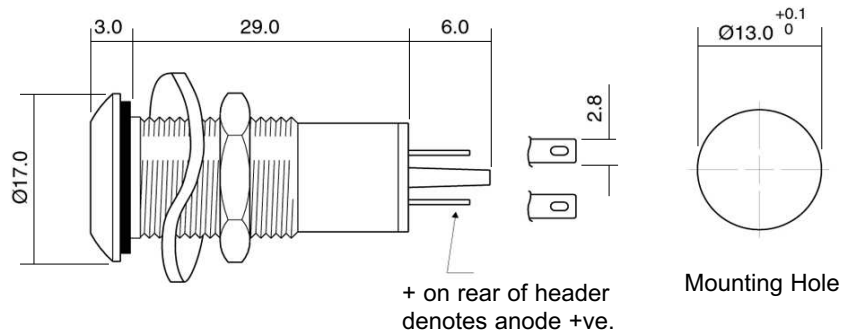
• Telephone +44 (0)1229 582430 • Fax: +44 (0)1229 585155

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528 Series



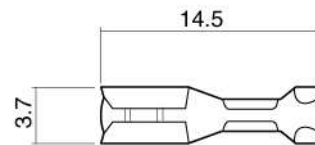
Dimensions in mm (Typical)
Not to scale

Mounting hole to be clean and burr free

MATERIALS

| | |
|---------------|---|
| Body | Stainless steel grade 303 |
| Nut | Stainless steel grade 303 |
| Panel Seal | Viton |
| Termination | Brass to BS 2874 CZ108 Copper flash undercoat with silver flash finish |
| Lock Washer | Stainless steel |
| Fresnel lens | Polycarbonate |
| Encapsulation | PC5430 resin |
| Header | Nylon 6 A82 |

PUSH-ON CONNECTORS



925-000-00 is brass tin plated.
For use with 528 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 |
|--------|---------------------------|-------------------------|--------------|---------------------|--------------------------|--------------------------|
| 528 | 825 | 1000 | 13.0 | 1.0 | x,y=26.0 | 2.0-10.0 |
| | 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 | | | |

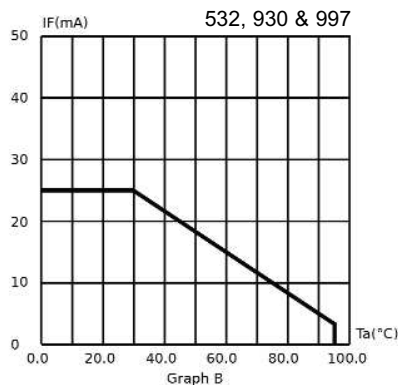
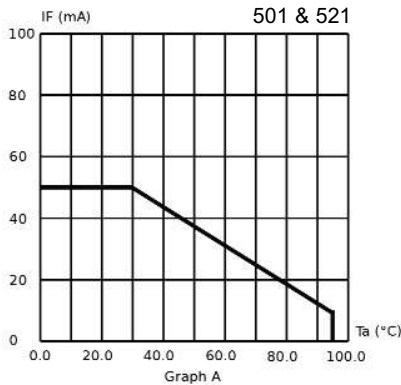
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DERATING INFORMATION



ALSO AVAILABLE

Part numbers also available in the 528 Series:

| PART NO. | COLOUR | VOLTAGE DC (Vdc) Vopr |
|---------------|--------|-----------------------|
| 528-000-00-50 | | 125 VDC |
| 528-501-04 | Red | 20mA |
| 528-501-21-15 | Red | 12 VDC |
| 528-501-21-19 | Red | 12 VDC |
| 528-501-22 | Red | 24 VDC |
| 528-501-22-15 | Red | 24 VDC |
| 528-501-22-19 | Red | 24 VDC |
| 528-501-22-50 | Red | 24 VDC |
| 528-501-23-15 | Red | 28 VDC |
| 528-501-24-19 | Red | 48 VDC |
| 528-501-25 | Red | 110 VDC |
| 528-501-72 | Red | 24 VAC |
| 528-501-75 | Red | 110 VAC |
| 528-501-76 | Red | 230 VAC |
| 528-501-76-15 | Red | 230 VAC |
| 528-501-76-50 | Red | 230 VAC |
| 528-501-86 | Red | 115 VAC |
| 528-506-23 | Orange | 28 VDC |
| 528-512-21-15 | Green | 12 VDC |
| 528-512-22-15 | Green | 24 VDC |
| 528-512-76 | Green | 230 VAC |
| 528-521-04 | Yellow | 20mA |
| 528-521-21-19 | Yellow | 12 VDC |
| 528-521-22 | Yellow | 24 VDC |
| 528-521-22-15 | Yellow | 24 VDC |
| 528-521-22-19 | Yellow | 24 VDC |
| 528-521-22-50 | Yellow | 24 VDC |
| UNITS | | |

| PART NO. | COLOUR | VOLTAGE DC (Vdc) Vopr |
|---------------|--------|-----------------------|
| 528-521-23-15 | Yellow | 28 VDC |
| 528-521-23-50 | Yellow | 28 VDC |
| 528-521-53 | Yellow | 50 VDC |
| 528-521-72 | Yellow | 24 VAC |
| 528-521-75 | Yellow | 110 VAC |
| 528-521-76 | Yellow | 230 VAC |
| 528-521-76-50 | Yellow | 230 VAC |
| 528-521-86 | Yellow | 115 VAC |
| 528-532-04 | Green | 20mA |
| 528-532-20 | Green | 5/6 VDC |
| 528-532-21-19 | Green | 12 VDC |
| 528-532-22 | Green | 24 VDC |
| 528-532-22-19 | Green | 24 VDC |
| 528-532-22-50 | Green | 24 VDC |
| 528-532-24 | Green | 48 VDC |
| 528-532-25 | Green | 110 VDC |
| 528-532-42 | Green | 15 VDC |
| 528-532-72 | Green | 24 VAC |
| 528-532-74 | Green | 48 VAC |
| 528-532-75 | Green | 110 VAC |
| 528-532-76 | Green | 230 VAC |
| 528-532-76-19 | Green | 230 VAC |
| 528-532-76-21 | Green | 230 VAC |
| 528-532-76-50 | Green | 230 VAC |
| 528-532-86 | Green | 115 VAC |
| 528-930-04 | Blue | 20mA |
| 528-930-04-15 | Blue | 20mA |
| UNITS | | |

| PART NO. | COLOUR | VOLTAGE DC (Vdc) Vopr |
|---------------|--------|-----------------------|
| 528-930-04-50 | Blue | 20mA |
| 528-930-04-51 | Blue | 20mA |
| 528-930-21-19 | Blue | 12 VDC |
| 528-930-22 | Blue | 24 VDC |
| 528-930-25 | Blue | 110 VDC |
| 528-930-75 | Blue | 110 VAC |
| 528-930-76 | Blue | 230 VAC |
| 528-997-04 | White | 20mA |
| 528-997-21-19 | White | 12 VDC |
| 528-997-22 | White | 24 VDC |
| 528-997-22-19 | White | 24 VDC |
| 528-997-22-50 | White | 24 VDC |
| 528-997-24 | White | 48 VDC |
| 528-997-72 | White | 24 VAC |
| 528-997-75 | White | 110 VAC |
| 528-997-76 | White | 230 VAC |
| 528-997-76-19 | White | 230 VAC |
| 528-997-76-50 | White | 230 VAC |
| 528-997-86 | White | 115 VAC |
| 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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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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