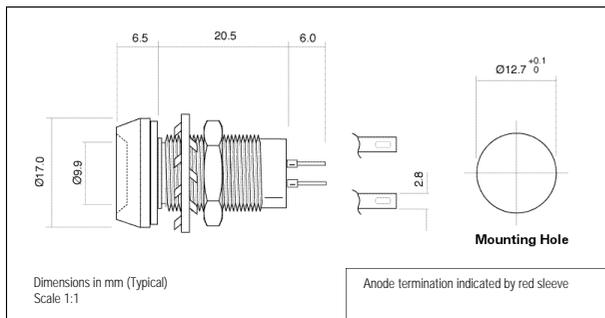


● PROFESSIONAL LED INDICATORS - Ø 12.7mm Mounting



- Bright nickel plated brass housing
- Rugged recessed lens assembly
- Burn-in options available on request
- Sealed to IP67



511 SERIES

MLQ = 10



LEDs

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 Vopr	CURRENT DC Iopr	LUMINOUS INTENSITY Iv@20mA	WAVE LENGTH p	VIEWING ANGLE	OPERATING TEMP Topr	STORAGE TEMP Tstg
STANDARD INTENSITY									
511-503-21	Red	Coloured Diffused	12	20	110	625	Wide	-20 ~ +60	-30 ~ +85
511-509-21	Yellow		12	20	32	575			
511-512-21	Green		12	20	50	565			
511-503-22	Red		24	20	110	625			
511-509-22	Yellow		24	20	32	575			
511-512-22	Green		24	20	50	565			
HIGH INTENSITY									
511-501-21	Red	Coloured Diffused	12	20	2750	660	Wide	-20 ~ +60	-30 ~ +85
511-521-21	Yellow		12	20	4500	590			
511-532-21	Green		12	20	6000	525			
511-930-21	Blue		12	20	2000	470			
511-997-21	White		12	20	3000	•			
511-501-22	Red		24	20	2750	660			
511-521-22	Yellow		24	20	4500	590			
511-532-22	Green		24	20	6000	525			
511-930-22	Blue		24	20	2000	470			
511-997-22	White		24	20	3000	•			
UNITS			Vdc	mA	mcd	nm		°C	°C

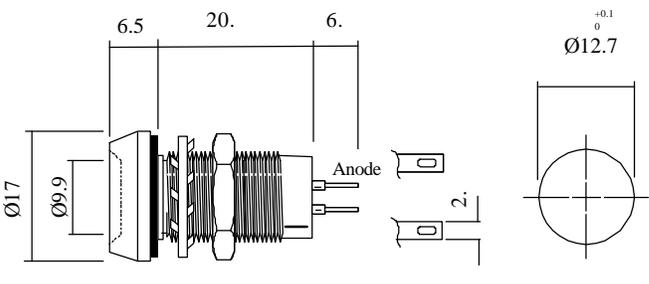
• = Typical emission colour: x=0.31, y=0.32. Colour temperature 8000K. Intensities (Iv) and colour shades of white (x,y co-ordinates) may vary between LEDs within a batch.

Please note - This product is also available at 24, 28, and 110Vdc, 110 and 230Vac. Indicators supplied at voltages above 75Vdc must be used with insulated terminations or ordered with flying leads to comply with the Low Voltage Directive. Please contact our Sales department for further details.

● ISO 9001: 1994 APPROVED



Making Light Work For You!

Industrial Panel Indicator	Ø 12.7mm Mounting																							
 <p style="font-size: small;">Dimensions in mm (typical) Not to Scale</p> <p style="font-size: small;">Anode Indicated by Red Sleeve</p>	<ul style="list-style-type: none"> • Nickel Plated Brass Body Finish • Five High Intensity Colours • Flying Lead Terminations available • Voltage range up to 230Vac • Panel Sealing in excess of IP66 • Robust termination tags accept push-on connectors 																							
512 SERIES																								
<p>Mean Time Between Failure 100,000 Hours</p> <p style="text-align: right;">Operating Temperature Range: -20 to +60°C Storage Temperature Range: -30 to +85°C</p> <p style="text-align: center; font-size: large; font-weight: bold; color: red;">Order Code : 512 – 501 – 21</p>																								
<p>Series Options :</p> <p>511 – Coloured Diffused Lens</p> <p>512 – Smoked Lens</p>	<p>LED Options : Code – LED Colour / Intensity @ 20 mA</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">501 – Red 660nm</td> <td style="width: 50%;">2750 mcd</td> </tr> <tr> <td>521 – Yellow 590nm</td> <td>4800 mcd</td> </tr> <tr> <td>532 – Green 525nm</td> <td>6000 mcd</td> </tr> <tr> <td>930 – Blue 470nm</td> <td>2000 mcd</td> </tr> <tr> <td>997 – White *</td> <td>4000 mcd</td> </tr> </table> <p style="font-size: x-small;">Intensity figures are typical and apply to discrete LED (non flat-topped) Package power dissipation (max)</p>	501 – Red 660nm	2750 mcd	521 – Yellow 590nm	4800 mcd	532 – Green 525nm	6000 mcd	930 – Blue 470nm	2000 mcd	997 – White *	4000 mcd	<p>Voltage Options : Code – Voltage / Current</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">21 – 12Vdc @ 20mA</td> <td style="width: 50%;"></td> </tr> <tr> <td>22 – 24Vdc @ 20mA</td> <td></td> </tr> <tr> <td>23 – 28Vdc @ 20mA</td> <td></td> </tr> <tr> <td>24 – 48Vdc @ 20mA</td> <td></td> </tr> <tr> <td>75 – 110Vac @ 9mA *</td> <td></td> </tr> <tr> <td>76 – 230Vac @ 4mA *</td> <td></td> </tr> </table> <p style="font-size: x-small; color: red;">* Insulated Connectors must be used at these voltages.</p>	21 – 12Vdc @ 20mA		22 – 24Vdc @ 20mA		23 – 28Vdc @ 20mA		24 – 48Vdc @ 20mA		75 – 110Vac @ 9mA *		76 – 230Vac @ 4mA *	
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75 – 110Vac @ 9mA *																								
76 – 230Vac @ 4mA *																								
<p>Materials :</p> <p>Body and Nut: Bright Nickel Plated Brass Lens: Polycarbonate Termination: Silver Plated Brass 2.8mm Flat Tags Panel Seal: Fluoroelastomer Lockwasher: Zinc Plated Steel</p>	<p>Technical Information :</p> <p>Panel Cutout: 12.7mm Min. Mounting Centres: x,y = 19.5mm Min/Max Panel Thickness: 1.5-8.0mm Mounting Torque: 1.0Nm Max. Reverse Voltage: 1000Vdc IP Rating: 66</p>	<p style="font-size: x-small;">* Typical emission colour: x=0.31, y=0.32 Colour temperature 8000K Intensities (Iv) and colour shades of white (x, y co-ordinates) may vary between LEDs within a batch</p>																						
<p>Marl International Limited Ulverston, Cumbria. LA12 7RY England</p> <p>Tel : + 44 (0) 1229 582430 Fax : + 44 (0) 1229 585155</p> <p>E-mail : sales@marl.co.uk Website : www.marl.co.uk</p>																								

The company's services are recognised to the Internationally recognised quality standard BS EN ISO9001 : 1994

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