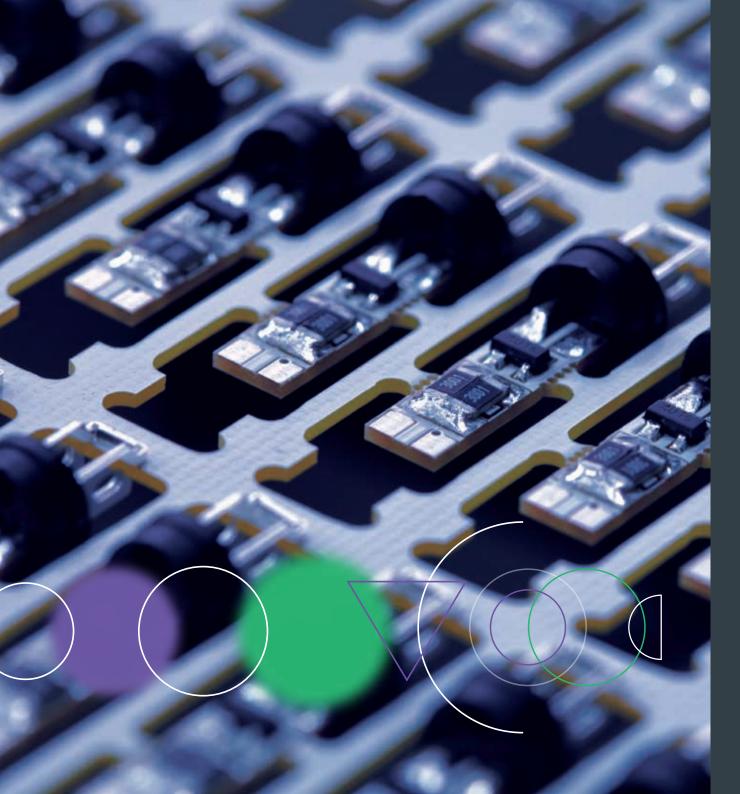
LED COMPONIENT AND INDICATOR GUIDE







LED BY DESIGN

MARL has been adapting LED technology to provide innovative, stylish and functional indicator solutions for over four decades.

From our facility in Ulverston, we develop and manufacture durable LED components using the highest grade materials and featuring high quality white light and full spectrum RGB technology.

Marl components are ideal for a range of professional applications including defence, aerospace, rail and specialised industrial markets.

Proudly Made in Britain.

PCB MOUNTING LEDS

103 SERIES



- Ø3.0mm diffused LED
- 90° single moulded housing
- Range of LED colours
- Range of voltage options
- Low current options available
- UL94 V-0 flammability rating
- Reverse polarity options available

104 SERIES



- Ø5.0mm diffused LED
- 90° single moulded housing
- Range of LED colours
- Bi-colour options available
- Range of voltage options
- Low current options available
- UL94 V-0 flammability rating

109 SERIES



- Ø3.0mm diffused LED
- 90° duplex moulded housing
- Range of LED colours
- Bi-colour options available
- Range of voltage options
- Low current options available
- UL94 V-0 flammability rating

113 SERIES



- Ø3.0mm diffused LED
- 90° single moulded housing
- Range of LED colours
- Range of voltage options
- Low current options available
- UL94 V-0 flammability rating
- Reverse polarity options available

125 SERIES



- Ø5.0mm diffused LED
- 90° single moulded housing
- Range of LED colours
- 1.6mm PCB mounting spigot
- Secures to PCB at wave soldering
- Low current options available
- UL94 V-0 flammability rating



- Ø5.0mm diffused LED
- 90° single moulded housing
- Red/green bi-colour LED
- Red/amber/green tri-colour LED
- Diffused lens wide angle viewing
- UL94 V-0 flammability rating
- Reduced power consumption



LED BULB REPLACEMENTS

202 SERIES



- T1 midget flange SX3s
- Range of LED colours
- High intensity LEDs, flat topped
- Wide viewing angle for switches
- Internal resistor voltage options
- Centre contact Anode as standard
- Reverse polarity options available

205 SERIES



- T1¾ midget groove S5.7s
- Range of LED colours
- High intensity LEDs, flat topped
- Wide viewing angle for switches
- Internal resistor voltage options
- Centre contact Anode as standard
- Reverse polarity options available

206 SERIES



- T1¾ midget flange SX6s
- Range of LED colours
- High intensity LEDs, flat topped
- Wide viewing angle for switches
- Internal resistor voltage options
- Centre contact Anode as standard
- Reverse polarity options available

215 SERIES



- T3¼ bayonet automobile cap BA9s
- Range of LED colours
- High intensity LEDs, flat topped
- Wide viewing angle
- Internal resistor voltage options
- Centre contact Anode as standard
- Reverse polarity options available

225 SERIES



- BA15d bayonet cap
- Range of LED colours
- 6 high intensity LEDs, multi-cluster
- Narrow viewing angle
- Internal resistor voltage options
- Bi-polar termination
- Durable to shock and vibration



- T1¾ midget groove S5.7s
- Range of LED colours
- Surface mount LED technology
- Wide viewing angle for switches
- Internal resistor voltage options
- Bi-polar AC/DC termination
- Durable to shock and vibration



SEALED LED PANEL INDICATORS

236 SERIES



- T1³/₄ midget flange SX6s
- Range of LED colours
- Surface mount LED technology
- Wide viewing angle for switches
- Internal resistor voltage options
- Bi-polar AC/DC termination
- Durable to shock and vibration

255 SERIES



- T3¼ bayonet automobile cap BA9s
- Range of LED colours
- High intensity LEDs, flat topped
- Wide viewing angle
- Voltage input: 8 48VAC/DC
- Bi-polar termination
- Durable to shock and vibration

258 SERIES



- T6.8 slide base
- Range of LED colours
- High intensity LEDs, flat topped
- Wide viewing angle
- Voltage input: 8 48VAC/DC
- Bi-polar termination
- Durable to shock and vibration

508 SERIES



- Ø8.1mm mounting
- Bright nickel plated brass housing
- Smoked lens good on/off ratio
- High intensity LED colours
- Sealed to IP67 weatherproof
- Durable to shock and vibration
- EMC / RFI options available

512 SERIES



- ■Ø12.7mm (½²") mounting
- Bright nickel plated brass housing
- Smoked lens good on/off ratio
- High intensity LED colours
- Internal resistor voltage options
- Sealed to IP67 weatherproof
- Durable to shock and vibration



- ■Ø12.7mm (½²) mounting
- Bright nickel plated brass housing
- Raised coloured diffused lens
- Range of LED colours
- Internal resistor voltage options
- Sealed to IP67 weatherproof
- Durable to shock and vibration



520 SERIES



- Ø6.1mm countersunk mounting Robust stainless steel housing
- Coloured diffused lens
- High intensity LED colours
- Internal resistor voltage options
- Sealed to IP67 weatherproof
- Durable to shock and vibration

524 SERIES



• Ø8.1mm mounting

Ø8.1mm mounting

terminations

- Robust stainless steel housing
- Coloured diffused lens
- High intensity LED colours
- Internal resistor voltage options
- Sealed to IP67 weatherproof
- Durable to shock and vibration

• White lens - good on/off ratio

 Sealed to IP67 - weatherproof Internal resistor - voltage options

• Multi LED colours - single indicator

• LED colours individually addressable - 4 wire

525 SERIES



Believed to be one of the only sealed multi-coloured indicators Bright nickel plated brass housing available



Ø12.7mm (½²) mounting

- Robust stainless steel housing
- Coloured diffused lens
- High intensity LED colours
- Internal resistor voltage options
- Sealed to IP67 weatherproof
- Durable to shock and vibration

531 SERIES

528 SERIES



- Ø12.7mm (1/2") mounting
- Bright nickel plated brass housing
- Coloured diffused lens
- High intensity LED colours
- Bi-polar AC/DC voltage options
- Sealed to IP67 weatherproof
- Durable to shock and vibration



- Ø8.1mm mounting
- Robust stainless steel housing
- Coloured diffused lens
- High intensity LED colours
- Bi-polar AC/DC voltage options
- Sealed to IP67 weatherproof
- Durable to shock and vibration



602 SERIES



- Ø5.0mm mounting
- Nickel plated brass housing
- Sealed optical light pipe
- Water clear lens gives clear "off" state
- Sealed to IP67 weatherproof
- Sleeve included on longer lengths to prevent light bleed
- Available in 4 length variations

604 SERIES



- Ø5.0mm mounting
- Bright nickel plated brass housing
- Smoked lens good on/off ratio
- High intensity LED colours
- Voltage options wire termination
- Sealed to IP67 weatherproof
- Durable to shock and vibration

612 SERIES



- Ø6.35mm (¼") mounting
- Black anodised aluminium housing
- Smoked lens good on/off ratio
- High intensity LED colours
- Internal resistor voltage options
- Sealed to IP67 weatherproof
- Bi-Tri colour options (R/A/G)

665 SERIES





Ø8.5mm mounting

- Hard anodised aluminium housing
- Unique PTFE panel seal
- High intensity LED colours
- 20mA operation wire termination
- Sealed to IP68-10psi weatherproof
- Durable to harsh environments

677 SERIES



Ø8.1mm mounting

- Black anodised aluminium housing
- Smoked lens good on/off Ratio
- High intensity LED colours
- Internal resistor voltage options
- Sealed to IP67 weatherproof
- Durable to shock and vibration

690 SERIES



Marl's exclusive UL listed sealed indicator

- Ø9.6mm (¾") mounting
- Black anodised aluminium housing
- UL certified No: E349017
- High intensity LED colours
- Voltage input: 8-48VAC/DC bi-polar
- Sealed to IP67 weatherproof
- Durable to shock and vibration



696 SERIES



- Ø6.1mm countersunk mounting
 Black anodised aluminium housing
 Coloured diffused lens
- High intensity LED colours
- Internal resistor voltage options
- Sealed to IP67 weatherproof
- Durable to shock and vibration

698 SERIES



- Ø8.1mm mounting
- Black anodised aluminium housing
- Smoked lens good on/off Ratio
- High intensity LED colours
- Bi-polar AC/DC voltage options
- Sealed to IP67 weatherproof
- Durable to shock and vibration



- ∎ Ø12.7mm (½") mounting
- Black anodised aluminium housing
- Coloured diffused lens
- High intensity LED colours
- Bi-polar AC/DC voltage options
- Sealed to IP67 weatherproof
- Durable to shock and vibration



