imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Ø22 mm panel mount LED indicators

) DISTINCTIVE FEATURES

16.75 mm colored diffused epoxy lens or 16.75 mm super bright LEDs

Secret until lit polycarbonate decals or custom engraving (2.8 x 0.8) solder lug/faston terminals, pins or (200 mm long) wire terminations



140-022-1807

ENVIRONMENTAL SPECIFICATIONS

- IP67 sealing option (EN60529)
- Operating & Storage Temperature Range: Rear plastic body: -30 °C to +65 °C (-22 °F to +149 °F) Rear epoxy body: -40 °C to +85 °C (-40 °F to +185 °F)



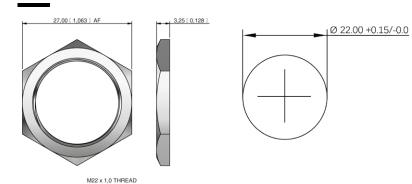
GENERAL SPECIFICATIONS

- Max Reverse Voltage: 5 V
- Viewing Angle: 30–100° (dependant on model)
- Life Expectancy: 100,000 hours
- Torque: 75 cNm (dependent on option)
- Maximum panel thickness 12 mm (Prominent), 10 mm (Flush)

MATERIALS

• Plated brass bezel finished in bright chrome, black or satin grey and moulded polycarbonate rear body. Plastic bezel in ABS.

) MOUNTING



The company reserves the right to change specifications without notice.

All LED characteristics are dependent upon environmental conditions. Therefore published data should be considered nominal and subject to variations.





Ø22 mm panel mount LED indicators

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ELECTRICAL SPECIFICATIONS

STANDARD LED INTENSITY

LED COMPONENT SPECIFICATIONS				
	Prominent and Recessed	Flush	Forward Voltage	
HE Red	82 mcd	70 mcd	5.7 V	
Green	95 mcd	66 mcd	6.0 V	
Yellow	60 mcd	59 mcd	5.9 V	
Blue	120 mcd	101 mcd	9.9 V	
White	1,000 mcd	150 mcd	3.3 V	
Bi-color (Typical) (Red/Green)	80/50 mcd	80/50 mcd	2.0 V/2.2 V	
Tri-color (Typical) (Red/Green/Yellow)	80/50/50 mcd	80/50/50 mcd	2.0 V/2.2 V/2.1 V	

Bi-color - The color is changed by reversing the polarity of the supply voltage. Tri-color - The indicator has red and green LEDs, when both connected yellow is produced.

SUPER BRIGHT LED INTENSITY

LED COMPONENT SPECIFICATIONS				
	Prominent and Recessed	Flush	Forward Voltage	
HE Red	465 mcd	800 mcd	5.7 V	
Green	245 mcd	980 mcd	9.0 V	
Yellow	365 mcd	1,250 mcd	6.0 V	

- The operating voltage must not be exceeded by more that 10% as this will result in reduced life expectancy
- Luminous intensity is measured at 20 mA on a discrete led unless otherwise stated.
- Luminous intensities and color shades of white LEDs may vary within a batch.
- Luminous intensity will be reduced with lower operating current.

Voltage	Operating Voltage	Operating Current
	(Min to Max)	(Typical All Types)
02 (No Resistor)	3.3 to 9.9 VDC	40 mA max*
12 VDC	10.8 to 13.2 VDC	40 mA
24 VDC	21.6 to 26.4 VDC	40 mA
28 VDC	25.2 to 30.8 VDC	40 mA
110 VAC	99 to 121 VAC	5 mA
220 VAC	207 to 235 VAC	3 mA

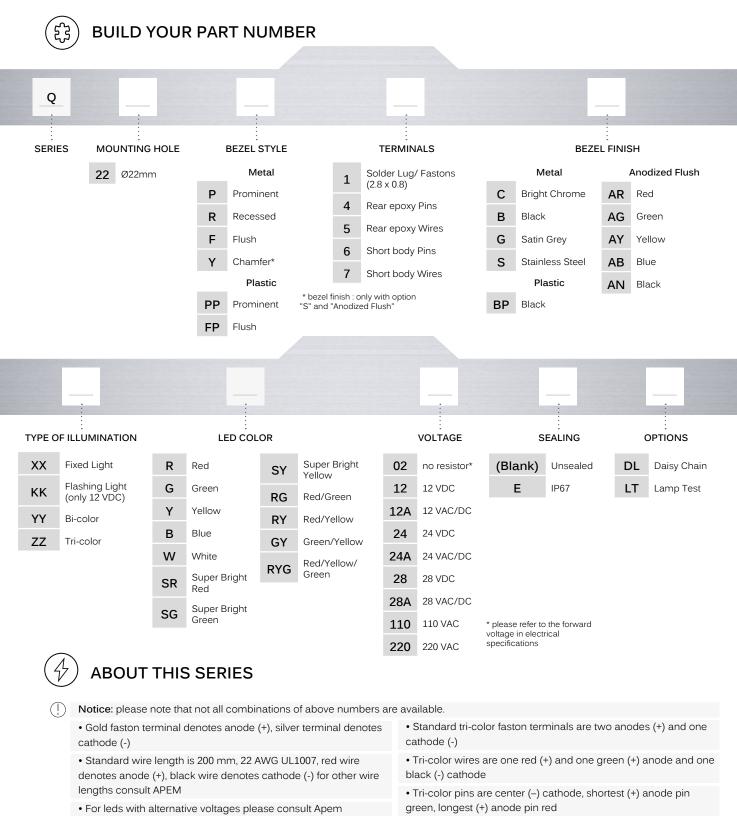
* Customer to supply resistor for desired operating current.

ADDITIONNAL INFORMATION ON LED COMPONENTS

• Bi-color leds, by connecting the gold faston (+) one color is produced, by reversing the supply voltage another color is produced – bi-colors are available up to 28 VDC

• The tri-color led has red and green leds when both are connected yellow is produced

Ø22 mm panel mount LED indicators



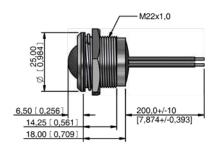
- 110 VAC and 220 VAC, short body terminal options, 5, 6 and 7 please consult the factory
- Take care when soldering to the faston terminals (recommended solder temperature 300 °C - 3 sec)
- Pin and Wire options are epoxy sealed at the rear of the bezels, termination options 4 and 5
- green, longest (+) anode pin red
- Daisy chaining option has negative (Cathode) terminals linked (3 x Fastons), solder lugs only
- Lamp test facility option 4 x solder lug/Faston only
- We recommend using superbright leds for use at 110 VAC and 220 VAC

Ø22 mm panel mount LED indicators

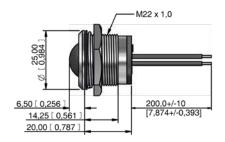
PROMINENT BEZEL



REAR EPOXY WIRES



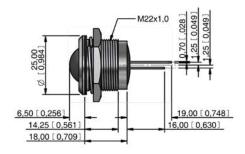
SHORT BODY WIRES



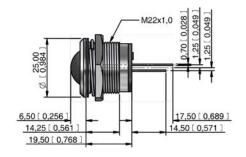
SOLDER LUG/FASTON



REAR EPOXY PINS

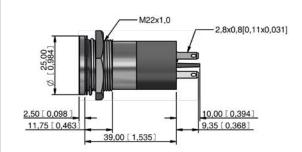


SHORT BODY PINS

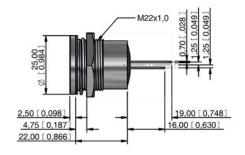


Ø22 mm panel mount LED indicators

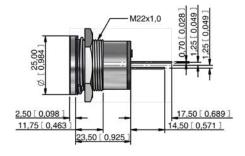
SOLDER LUG/FASTON



REAR EPOXY PINS

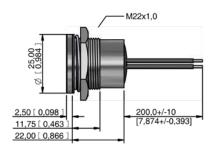


SHORT BODY PINS

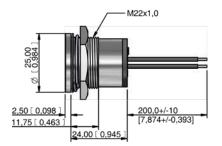


REAR EPOXY WIRES

FLUSH BEZEL



SHORT BODY WIRES





Ø22 mm panel mount LED indicators

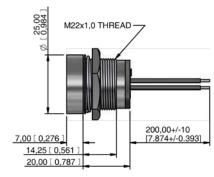
RECESSED BEZEL



REAR EPOXY WIRES



SHORT BODY WIRES



M22x1,0 THREAD

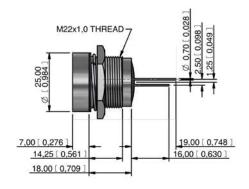
35,00 [1,378]

9,35 [0,368]

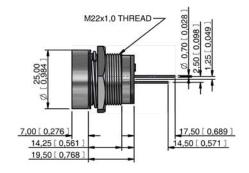
SOLDER LUG/FASTON

PINS

14,25 [0,561



REAR EPOXY PINS

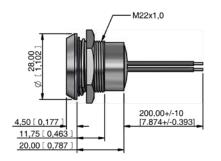


Ø22 mm panel mount LED indicators

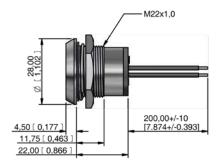
CHAMFER BEZEL (316L STAINLESS STEEL AND ANODIZED ALUMINIUM ONLY)



REAR EPOXY WIRES

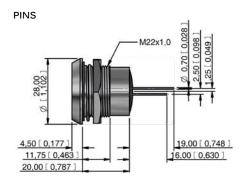


SHORT BODY WIRES

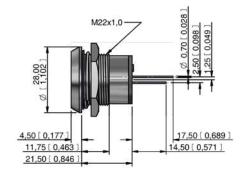


SOLDER LUG/FASTON





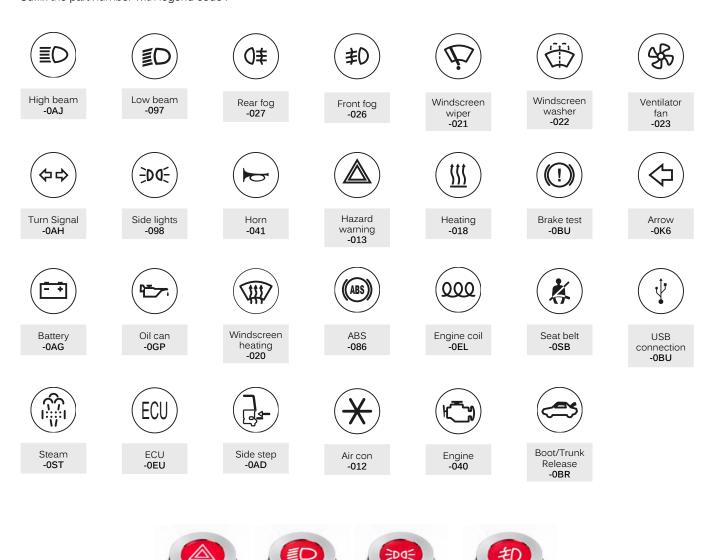
REAR EPOXY PINS



Ø22 mm panel mount LED indicators

\geq) CUSTOM ENGRAVING

Some common codes are listed above, for your custom requirements please contact APEM. Unless specified standard engraving with white infill will be supplied. Suffix the part number with legend code :





Ø22 mm panel mount LED indicators

SECRET UNTIL LIT POLYCARBONATE INSERTS

Some common codes are listed above, for your custom requirements please contact APEM. Please note Secret until lit inserts only available with flush metal bezel (Option F) Suffix the part number with legend code :





For custom cable length and connectors contact APEM.