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



140-02-1806

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 chrome 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.





1

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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

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- \bullet 110 VAC and 220 VAC, short body terminal options, 5, 6 and 7 please consult the factory
- \bullet Take care when soldering to the faston terminals (recommended solder temperature 300 $^\circ C$ 3 sec)
- Pin and Wire options are epoxy sealed at the rear of the bezels, termination options 4 and 5
- Lamp test facility option 4 x solder lug/Faston only

(3 x Fastons), solder lugs only

 \bullet We recommend using superbright leds for use at $\,$ 110 VAC and 220 VAC

• Daisy chaining option - has negative (Cathode) terminals linked

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PROMINENT BEZEL



REAR EPOXY WIRES



SHORT BODY WIRES



SOLDER LUG/FASTON



REAR EPOXY PINS



SHORT BODY PINS



Ø22 mm panel mount LED indicators

FLUSH BEZEL



REAR EPOXY WIRES



SHORT BODY WIRES



SOLDER LUG/FASTON



REAR EPOXY PINS



SHORT BODY PINS





Ø22 mm panel mount LED indicators

RECESSED BEZEL



REAR EPOXY WIRES



SHORT BODY WIRES



35,00 [1,378]

SOLDER LUG/FASTON

PINS



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



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\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 :





IFD

8

APEM

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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Apem:

Q22F1BXXB110E Q22F1BXXB12E Q22F1BXXG110E Q22F1BXXG12E Q22F1BXXG24E Q22F1BXXR110E Q22F1BXXR12E Q22F1BXXR24E Q22F1BXXW110E Q22F1BXXW12E Q22F1BXXW24E Q22F1BXXY110E Q22F1BXXY12E Q22F1BXXY24E Q22F1CXXB110E Q22F1CXXB12E Q22F1CXXG110E Q22F1CXXG12E Q22F1CXXG24E Q22F1CXXR110E Q22F1CXXR12E Q22F1CXXR24E Q22F1CXXW110E Q22F1CXXW12E Q22F1CXXW24E Q22F1CXXY110E Q22F1CXXY12E Q22F1CXXY24E Q22P1BXXB110E Q22P1BXXB12E Q22P1BXXG110E Q22P1BXXG12E Q22P1BXXG24E Q22P1BXXR110E Q22P1BXXR12E Q22P1BXXR24E Q22P1BXXW110E Q22P1BXXW12E Q22P1BXXW24E Q22P1BXXY110E Q22P1BXXY12E Q22P1BXXY24E Q22P1BZZRYG12E Q22P1BZZRYG24E Q22P1CXXB110E Q22P1CXXB12E Q22P1CXXG110E Q22P1CXXG12E Q22P1CXXG24E Q22P1CXXR110E Q22P1CXXR12E Q22P1CXXR24E Q22P1CXXW110E Q22P1CXXW12E Q22P1CXXW24E Q22P1CXXY110E Q22P1CXXY12E Q22P1CXXY24E Q22P1CZZRYG12E Q22P1CZZRYG24E Q22F1BXXB24E Q22F1CXXB24E Q22P1BXXB24E Q22P1CXXB24E Q22FP5CPZZRYG24EDL Q22F5CZZRYG24EDL Q22P5BXXY24E Q22Y5ABXXB110E Q22Y5SXXB24E Q22Y5ARXXSR220E Q22F5BXXSG12E-326 Q22Y5SXXSR24E Q22Y5AGXXSG110E Q22Y5ABXXB28E Q22Y5ARXXSR12E Q22F5BXXSR12E-3SB Q22F5BXXSG12E-397 Q22Y5ABXXB12E Q22F5BXXSR12E-3PB Q22F5BXXSR12E-3BU Q22Y5AYXXSY220E Q22F5BXXSR12E-313 Q22Y5SXXSG220E Q22F5BXXB12E-3AJ Q22F5BXXSG12E-3AH Q22Y5ARXXSR110E Q22Y5ARXXSR28E Q22Y5AYXXSY24E Q22Y5SXXSR12E Q22Y5SXXB28E Q22F5BXXSG12E-3K6 Q22Y5SXXSY220E Q22Y5AGXXSG220E Q22Y5AGXXSG28E Q22Y5ARXXSR24E Q22Y5AYXXSY12E Q22Y5AGXXSG12E Q22Y5AGXXSG24E Q22Y5SXXSR28E Q22Y5AYXXSY110E