Ø22 mm panel mount LED indicators



WD-072-1803

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



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: $-40 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ ($-40 \,^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)



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)

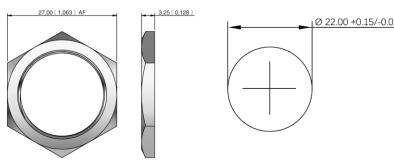


MATERIALS

• 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.





Ø22 mm panel mount LED indicators



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

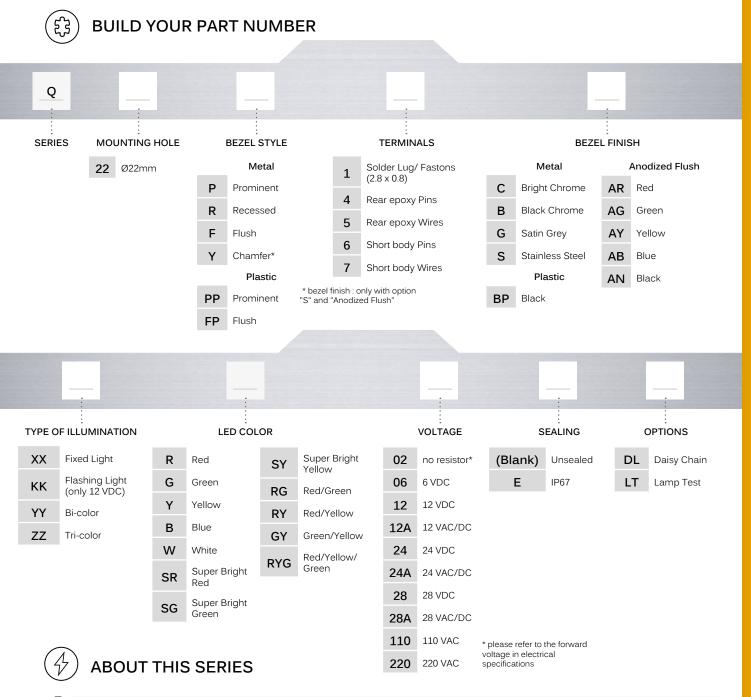
Voltage	Operating Voltage	Operating Current		
	(Min to Max)	(Typical All Types)		
05 (No Resistor)	3.3 to 9.9 VDC	40 mA max*		
12 VDC	10.8 to 13.2 VDC	40 mA		
24 VDC	21.6 to 26.4 VDC	40 mA		
28 VDC	25.2 to 30.8 VDC	40 mA		
110 VAC	99 to 121 VAC	5 mA		
220 VAC	207 to 235 VAC	3 mA		
* Customer to supply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

* 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



- Notice: please note that not all combinations of above numbers are available.
 - Gold faston terminal denotes anode (+), silver terminal denotes cathode (-)
 - Standard wire length is 200 mm, 22 AWG UL1007, red wire denotes anode (+), black wire denotes cathode (-) for other wire lengths consult APEM
 - For leds with alternative voltages please consult Apem
 - 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 °C 3 sec)
 - Pin and Wire options are epoxy sealed at the rear of the bezels, termination options 4 and 5

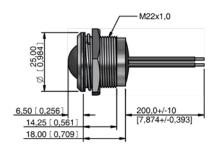
- Standard tri-color faston terminals are two anodes (+) and one cathode (-)
- Tri-color wires are one red (+) and one green (+) anode and one black (-) cathode
- Tri-color pins are center (-) cathode, shortest (+) anode pin green, longest (+) anode pin red
- Daisy chaining option has negative (Cathode) 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

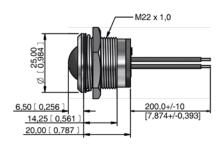
PROMINENT BEZEL



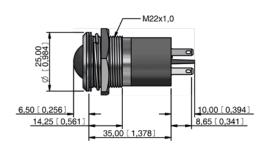
REAR EPOXY WIRES



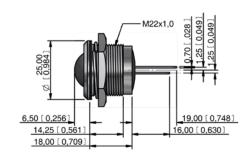
SHORT BODY WIRES



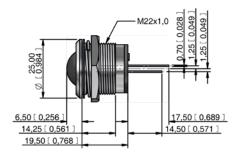
SOLDER LUG/FASTON



REAR EPOXY PINS



SHORT BODY PINS



APEN

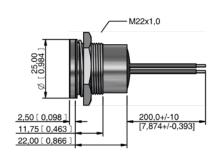
Q22 series

Ø22 mm panel mount LED indicators

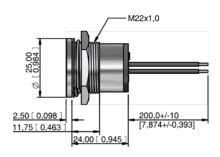
FLUSH BEZEL



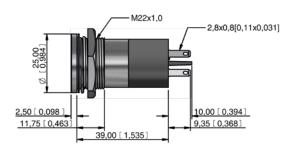
REAR EPOXY WIRES



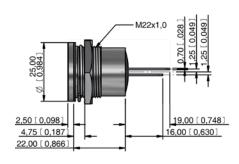
SHORT BODY WIRES



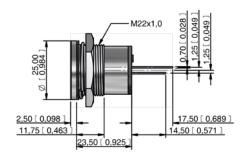
SOLDER LUG/FASTON



REAR EPOXY PINS



SHORT BODY PINS

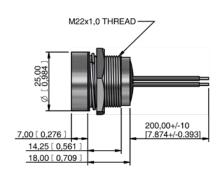


Ø22 mm panel mount LED indicators

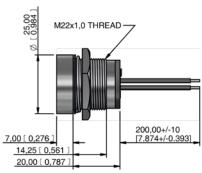
RECESSED BEZEL



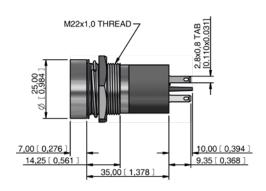
REAR EPOXY WIRES



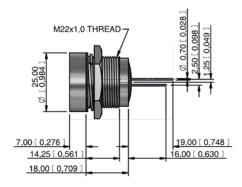
SHORT BODY WIRES



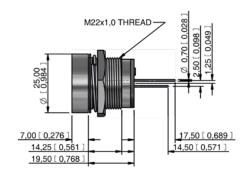
SOLDER LUG/FASTON



PINS



REAR EPOXY PINS



A PER

Q22 series

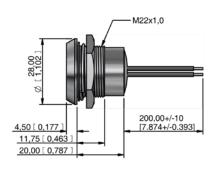
Ø22 mm panel mount LED indicators

CHAMFER BEZEL

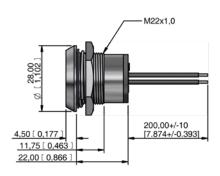
(316L STAINLESS STEEL AND ANODIZED ALUMINIUM ONLY)



REAR EPOXY WIRES

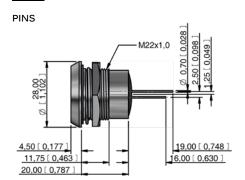


SHORT BODY WIRES

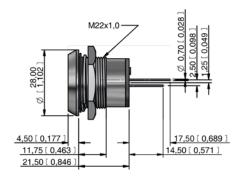


SOLDER LUG/FASTON





REAR EPOXY PINS



Ø22 mm panel mount LED indicators



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:

















High beam -0AJ

Low beam -097

Rear fog -027

Front fog -026

Windscreen wiper

Windscreen washer

Ventilator fan



-DQ-











Turn Signal -0AH

Side lights -098

-041

Hazard warning

Heating -018

Brake test -0BU

Arrow -0K6



Battery -0AG



Oil can -0GP



Windscreen heating



ABS -086



Engine coil -0EL



Seat belt -0SB



USB connection -0BU



Steam



ECU -0EU



Side step



-012



Engine -040



Boot/Trunk Release -0BR









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:



CABLE LENGTH AND CONNECTOR



For custom cable length and connectors contact APEM.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Panel Mount Indicators category:

Click to view products by Apem manufacturer:

Other Similar products are found below:

607-3232-140F 821-0331-503 FL2870C8R FL2950WL7B FL2950WL8G FL589WL8R FL67C8R H8630FBBA3 NL177WL2A NL177WL3G NL276C2A NL2950BWL3G NL589WL2R NL67C2C NL67C3R C480AABG3 PB22BM41K PB22SIM40Y PB22SKRS31KC L32R-R2-2311 L3353-MWRG L39UR-R24-2111 L58D-G2-W L58D-Y2-W L59D-R12-W L59UD-R12-W L625DG L625DR LE177WL39007 LE2950BWL39018 LH1048BSWL3702 LH1048BWL3702 LH382A LH677G LHM628A FL276WL7R FL2950BWL7R FL2950WL8R FL2950WL8R-12 FL2951WL8G FL2951WL8R FL589C7R FL67WL8G MPC5BCW18.0 556-1605-808F 556-1705-809F 556-3008-839F 558-0201-818F 559-0001-813F