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

Available in RGB



HND-022200

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)

$\left. ight\} ight)$ GENERAL SPECIFICATIONS

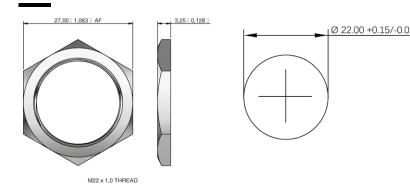
- Max Reverse Voltage: 5 V
- Viewing Angle: 30–100° (dependant on model)
- Life Expectancy: 100,000 hours
- Torque: 75 cNm

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• 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.



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.





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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	

RGB LED INTENSITY

ITEM	SYMBOL	CONDITION	TYP.
DC Forward Voltage	V _F (R)	IF=20 mA	2.1
	V _F (B/G)	IF=20 mA	3.1
Luminous Intensity	Iv (Red)		220 mcd
	lv (Green)		500 mcd
	lv (Blue)		100 mcd

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 resistor for desired operating current.

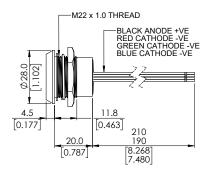
ADDITIONNAL INFORMATION ON LED COMPONENTS

• 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

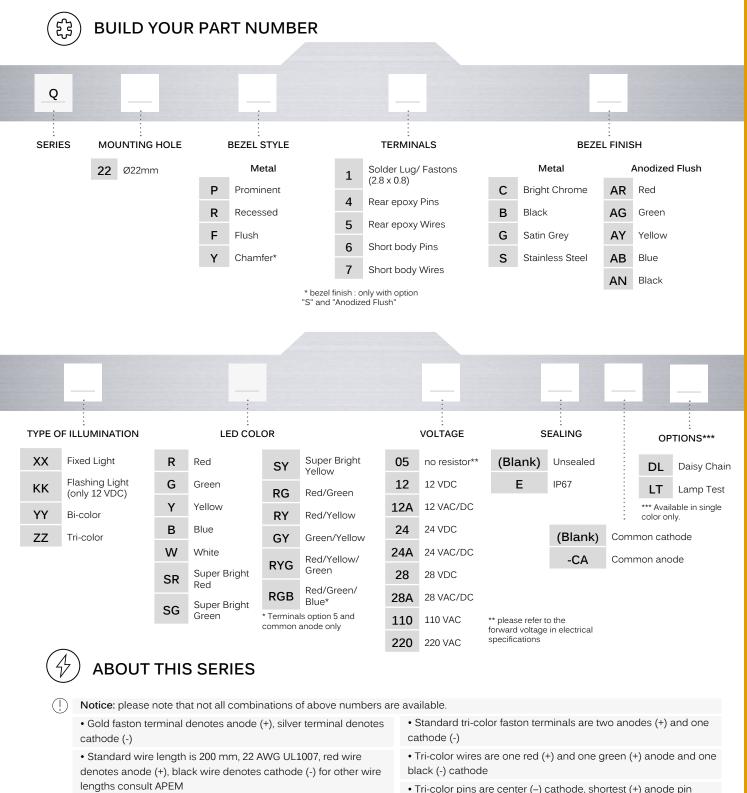
- The tri-color led has red and green leds when both are connected yellow is produced
- The operating voltage must not be exceeded by more that 10% as this will result in reduced life expectancy
- Luminous intensity is measured at 20 mA on a discrete led unless otherwise stated.
- Luminous intensities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



REAR EPOXY WIRES FOR RGB OPTION



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- For leds with alternative voltages please consult Apem
- \bullet 110 VAC and 220 VAC, only available with terminal options 1, 3 and 5
- \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
- 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
- \bullet We recommend using superbright leds for use at $\,110$ VAC and $\,220$ VAC

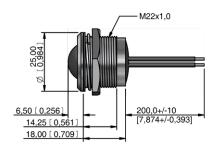
VDEN

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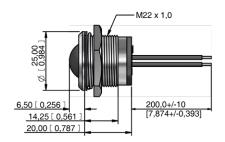
PROMINENT BEZEL



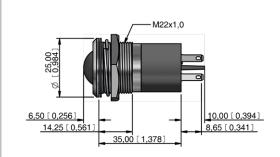
REAR EPOXY WIRES



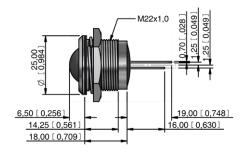
SHORT BODY WIRES



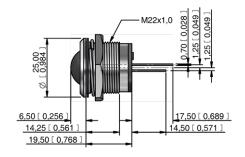
SOLDER LUG/FASTON



REAR EPOXY PINS



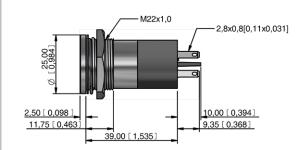
SHORT BODY PINS



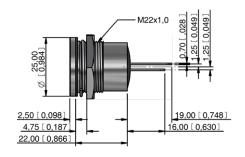
LED INDICATORS

Ø22 mm panel mount LED indicators

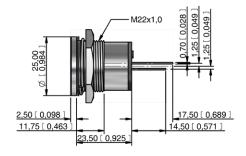
SOLDER LUG/FASTON



REAR EPOXY PINS



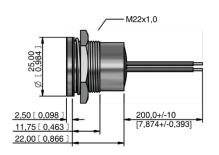
SHORT BODY PINS



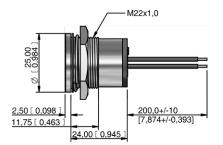
FLUSH BEZEL



REAR EPOXY WIRES



SHORT BODY WIRES



5

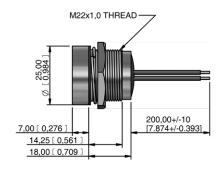


Ø22 mm panel mount LED indicators

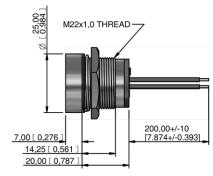
RECESSED BEZEL



REAR EPOXY WIRES

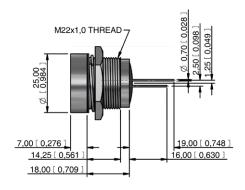


SHORT BODY WIRES

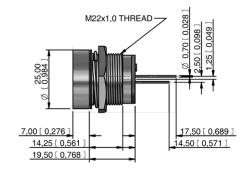


SOLDER LUG/FASTON

PINS



REAR EPOXY PINS

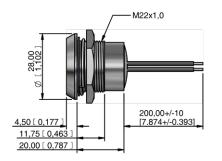


Ø22 mm panel mount LED indicators

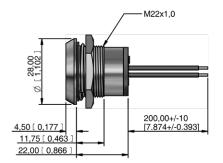
CHAMFER BEZEL (316L STAINLESS STEEL AND ANODIZED ALUMINIUM ONLY)



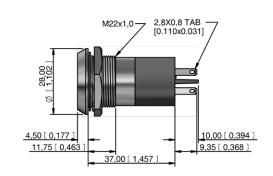
REAR EPOXY WIRES

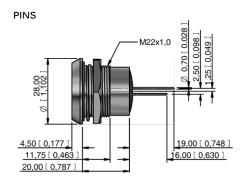


SHORT BODY WIRES

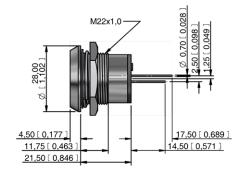


SOLDER LUG/FASTON





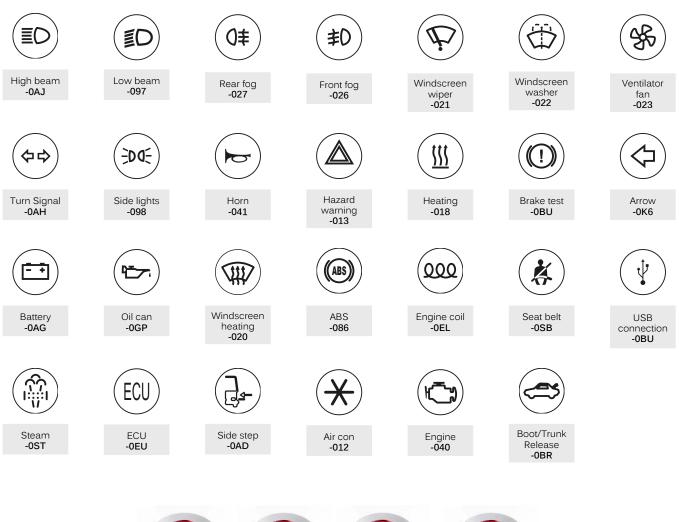
REAR EPOXY PINS



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 :



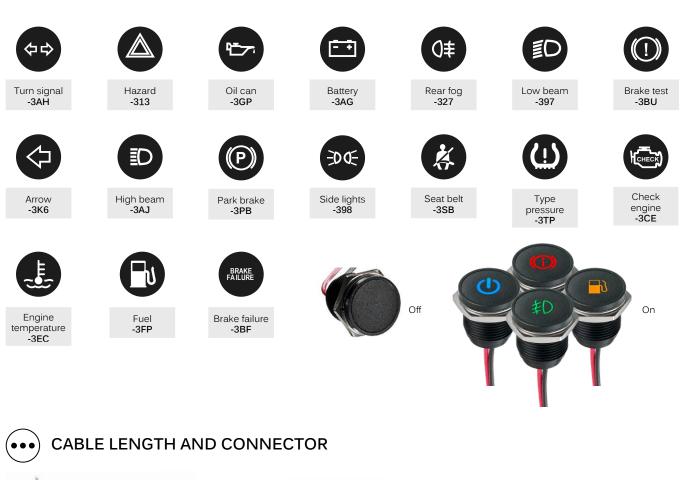


APEM

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.

X-ON Electronics

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

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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 FL2950WL7R FL2950WL8R FL2950WL8R-12 FL2951WL8G FL2951WL8R FL589C7R FL67WL8G MPC5BCW18.0 556-1605-808F 556-1705-809F 556-3008-839F 558-0201-818F 559-0001-813F