Distinctive features and specification

O22 VOY1609R3US

Features

- · 22mm panel mounting LED indicator
- 18mm colored diffused epoxy lens or 18mm super bright LEDs
- Plated brass bezel finished in bright chrome, black chrome or satin grey and moulded polycarbonate rear body
- Chamfer bezel option in 316L stainless steel and anodized aluminum finish only
- · Prominent, Recess and flush bezel styles
- · Custom engraving & secret until lit options available
- (2.8 x 0.8) solder lug/faston terminals, pins or (200mm long) wire terminations
- IP67 sealing option (EN60529)
- · Supplied with fixing nut and spring washer

NB: UL Recognized Component



TECHNICAL SPECIFICATIONS			
Voltage	Operating Voltage	Operating Current	
	(Min to Max)	(Typical All Types)	
05 (No Resistor)	3.3 to 9.9VDC	40mA max*	
12VDC	10.8 to 13.2VDC	40mA	
24VDC	21.6 to 26.4VDC	40mA	
28VDC	25.2 to 30.8VDC	40mA	
110VAC	99 to 121VAC	5mA	
220VAC	207 to 253VAC	3mA	

Max Reverse Voltage: 5V			
Viewing Angle: 30–100° (dependant on model)			
Life Expectancy: 100,000 hours			
Temperature Range: -40 to +85°C (operating & storage)			
Torque: 100cNm			
Ø 22.00 +0.15/-0.0 27.00[1.083] AF			

PANEL CUTOUT	
--------------	--

7-0.0 2700[1083] AF 3.25[0.128]
M22 x 1,0 THREAD

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

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 (Diffused)	Prominent and Recessed	Flush	Forward Voltage
HE Red	465mcd	800mcd	5.7V
Green	245mcd	980mcd	9.0V
Yellow	365mcd	1,250mcd	6.0V
		•	

Luminous intensity will be reduced with lower operating current.

Note: The operating voltage must not be exceeded by more that 10% as this will result in reduced life expectancy. The company reserves the right to change specifications without notice.

* Customer to supply resistor for desired operating current.

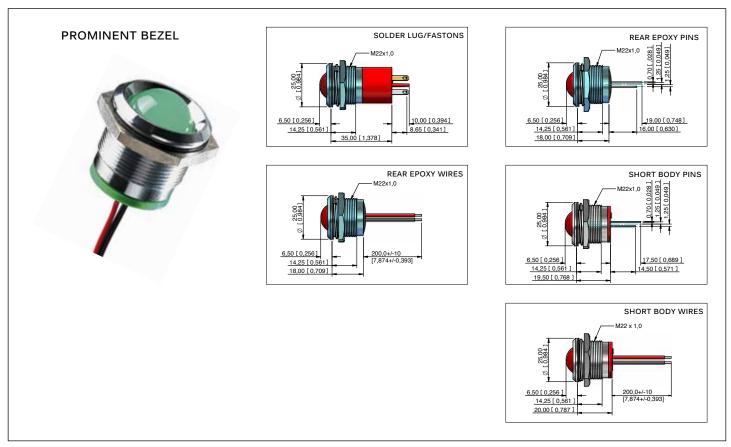
Luminous intensity is measured at 20mA on a discrete LED unless otherwise stated.

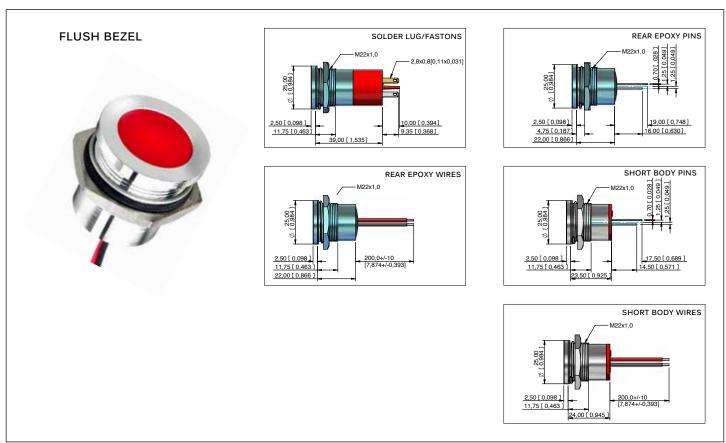
Luminous intensities and color shades of white LEDs may vary within a batch.

LED characteristics are dependent upon environmental conditions. Therefore published data should be considered nominal.

www.apem.com **APEM**

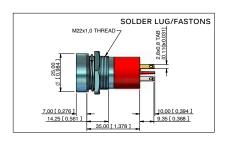
Technical Drawings

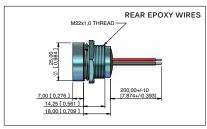


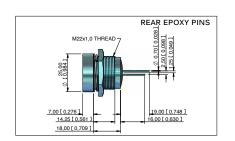


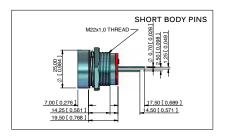
Technical Drawings

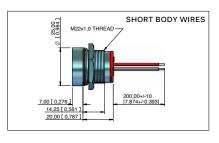




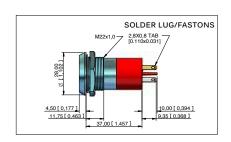


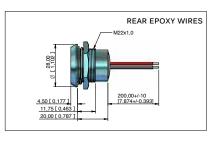


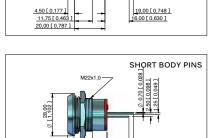








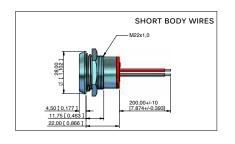




4,50 [0,177]

REAR EPOXY PINS

17.50 [0.689] 14,50 [0,571]

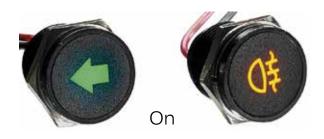


Designed to match the bezel syle of APEM's range of Ø22mm panel mounting Piezo pushbutton switches PBAR, PBAR6, PBARY and PBARZ. Search on apem.com for detail

Q SERIES Ø22mm (.866") Panel Mount LED Indicators Custom options

Secret Until Lit Polycarbonate Inserts





Suffix the part number with legend code (see example on page 5)

Code	Symbol	Description
-3AH		Turn Signal
-313		Hazard
-3GP		Oil can
-3AG		Battery
-327	O#	Rear fog
-397	ED	Low beam
-3BU		Brake test
-3K6		Arrow
-3AJ	ID	High beam

Code	Symbol	Description
-3PB	P	Park Brake
-398	₹DQE	Side Lights
-3SB	X	Seat Belt
-3TP		Tyre Pressure
-3CE	CHECK	Check Engine
-3EC		Engine Temperature
-3FP		Fuel
-3BF	BRAKE FAILURE	Brake Failure

Some common codes are listed above, for your custom requirements please contact APEM.

Q SERIES Ø22mm (.866") Panel Mount LED Indicators Custom Options

Custom Marking

Cable length & connector





For custom cable length and connectors please contact APEM

CUSTOM ENGRAVING

Code Symbol Description

Suffix the part number with legend code (see example on page 5)

Code	Symbol	Description
-0AJ		High Beam
-097		Low Beam
-027	Q ≢	Rear Fog
-026	≢D	Front Fog
-021		Windscreen Wiper
-022		Windscreen Washer
-023	%	Ventilator Fan
-0AH	(44)	Turn Signal
-098	<u>-</u> D0-	Side Lights

5

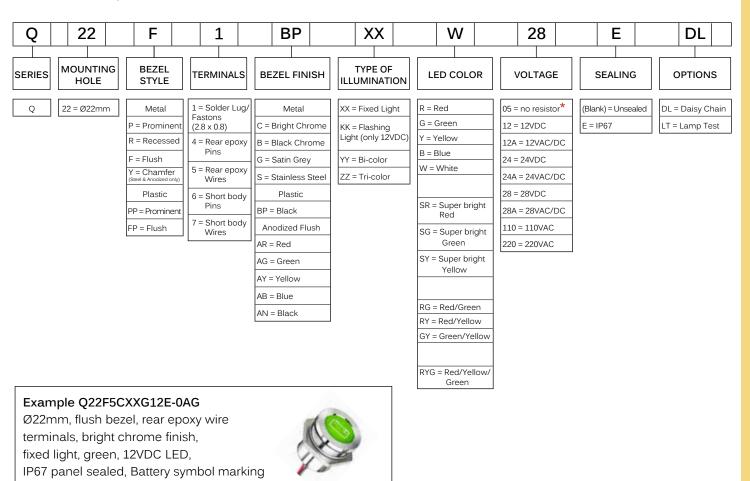
Oouc	Cyrribor	Description
-041	(A)	Horn
-013		Hazard Warning
-018		Heating
-0BU		Brake Test
-0K6	4	Arrow
-0AG		Battery
-0GP		Oil Can
-020		Windscreen Heating
-086	(ABS)	ABS

(200)	Engine Coil
	Seat Belt
¥	USB Connection
	Steam
ECU	ECU
	Side Step
*	Air Con
4	Engine
	Boot/Trunk Release
	ECU

Some common codes are listed above, for your custom requirements please contact APEM. Unless specified standard engraving with white infill will be supplied

STANDARD OPTIONS

The Q22 Series is available with a range of standard options, to specify your LED, simply choose one option from each column. An example is shown below.



- Gold Faston terminal denotes Anode (+), silver terminal denotes Cathode (-)
- Standard wire length is 200mm, 22AWG UL1007, red wire denotes Anode (+), black wire denotes Cathode (-) for other wire lengths consult APEM
- For LEDs with alternative voltages consult APEM
- 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 28VDC
- 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
- The Tri-color LED has red and green LEDs when both are connected yellow is produced
- 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
- Maximum panel thickness: Prominent = 12mm, Flush = 10mm
- · Plastic bezel material: ABS
- 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 super bright LEDs for use at 110 and 220VAC

* = For resistorless versions (05) please refer to the forward voltage on page 1

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Apem manufacturer:

Other Similar products are found below:

301T1ZQE2UL DPL-02 SLC12007 5D15F1534 M21L0E1C M31L0M1M MAB6B HF22P10 ADTSM62SV 13435CDGX640 DSR04T MSS22 BD150A01RE0000 HS1T24GA 1D08 1Z03 IPR3SAD2L0B LP1503N20V00SHIM LPI3124G1K247XX A0273 ES1P41653 FG2035 1US08 1ZCS16LM118 Q6F3BXXR02E Q6P5BXXSG24E Q8F1BZZRYG24E HF33S11 HF-44S10-U HF45S40U HFX44S10 TH500P00D4 TL37W000050 AV1611A410 TP42W008000 MHU36 TS-6A1U00A TSAA1G00A 3140SAL6475 ICP3SAD2100 IPR3SAD2LSG IPR5SAD9 1011A 11148AG 641NH TR39P000000012 Q8F1CXXHY110E IQC3Z422 IMR7Z452UL IMP7P422234