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

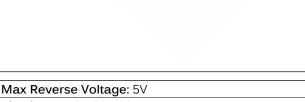
Distinctive features and specification

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
- Black ABS Plastic bezel option
- Prominent and flush bezel styles
- Custom engraving 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 Viewing Angle: 30–100° (dependant on model) Life Expectancy: 100,000 hours Operating Voltage **Operating Current** Voltage Temperature Range: -40 to +85°C (operating & storage) (Min to Max) (Typical All Types) Torque: 100cNm 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 5mA 99 to 121VAC 220VAC 207 to 253VAC 3mA



PANEL CUTOUT

Ø 22.00 +0.15/-0.0

Standard LED Intensity	Prominent	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	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.

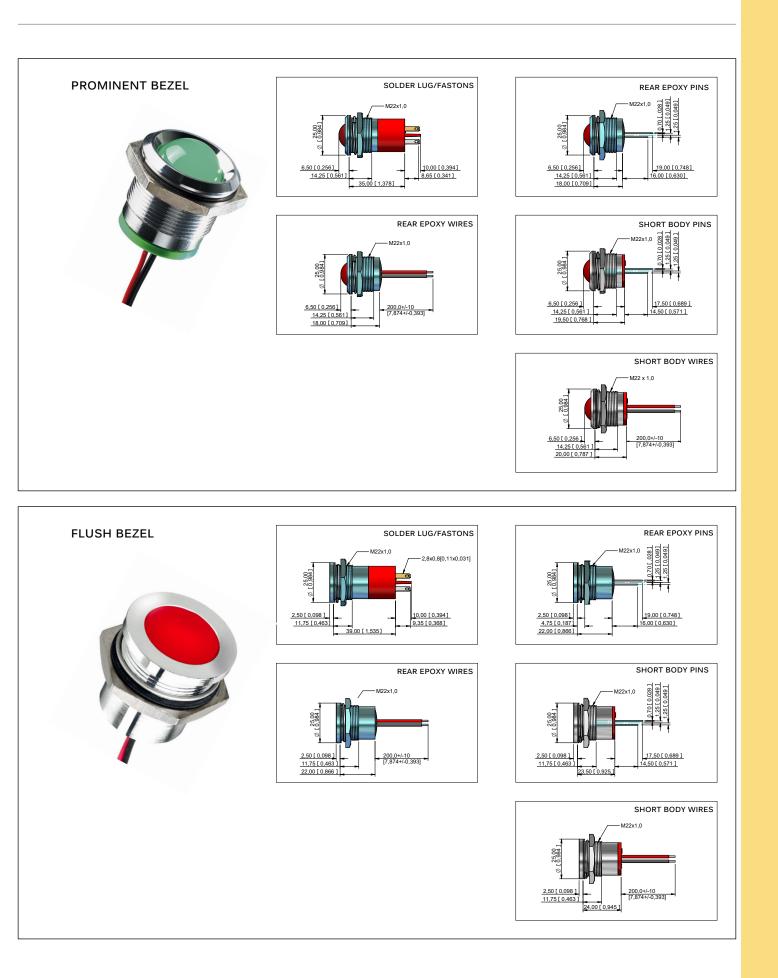


APEM

VOYC1603R2US

3,25 [0,128]

Q SERIES Ø22mm (.866") Panel Mount LED Indicators Technical Drawings



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

Custom Options



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

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

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.

Q	22	F	1	BP		XX			W		28	E	DL
SERIES	MOUNTING HOLE	BEZEL STYLE	TERMINALS	BEZEL FINI	SH	TYPE OF UMINATIO	ON	LE	D COL	OR	VOLTAGE	SEALING	OPTIONS
Q	22 = Ø22mm	Metal	1 = Solder Lug/ Fastons	Metal	XX	XX = Fixed Light		R = Red			05 = no resistor*	(Blank) = Unsealed	DL = Daisy Chain
		P = Prominent	(2.8 x 0.8)	C = Bright Chr		= Flashing		G = G			12 = 12VDC	E = IP67	LT = Lamp Test
		F = Flush	4 = Rear epoxy Pins	B = Black Chro	ome	ht (only 12V	DC)	Y = Ye			12A = 12VAC/DC		
		Plastic		G = Satin Grey	YY	= Bi-color		B = B			24 = 24VDC		
		PP = Prominent	5 = Rear epoxy Wires	Plastic	ZZ	= Tri-color		W = V	white		24A = 24VAC/DC		
		FP = Flush	6 = Short body	BP = Black							28 = 28VDC		
			Pins	Anodised Flu	ish				Super br Red	ight	28A = 28VAC/DC		
			7 = Short body Wires	AR = Red				SG =	Super bi	right	110 = 110VAC		
				AG = Green					Green		220 = 220VAC		
				AY = Yellow					Super br Yellow	ight			
				AB = Blue									
				AN = Black					Red/Gre				
									Red/Yell				
									Green/Y				
								RYG =	= Red/Ye Green	llow/			
	Example Q22F5CXXG12E-0AG												
Ø22mm, flush bezel, rear epoxy wire													
terminals, bright chrome finish,													
fixed light, green, 12VDC LED,													
IP67 panel sealed, Battery symbol marking													

- 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