Q SERIES Ø16mm (.630") Panel Mount LED Indicators

Distinctive features and specification

VOYC1507US

Features

- 16mm panel mounting LED indicator
- 10mm colored diffused epoxy lens or 10mm super/hyper bright LEDs
- · Plated brass bezel finished in bright chrome, black chrome or satin grey
- · ABS Plastic bezel finished in bright chrome, satin grey, gold or black
- · Prominent and flush bezel styles
- 2VDC 220VAC
- (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)					
2VDC (No Resistor)	1.8 to 2.5VDC	20mA*					
6VDC	5.4 to 6.6VDC	20mA					
12VDC	10.8 to 13.2VDC	20mA					
24VDC	21.6 to 26.4VDC	20mA					
28VDC	25.2 to 30.8VDC	20mA					
110VAC	99 to 121VAC	6mA					
220VAC	207 to 253VAC	3mA					

Max Reverse Voltage: 5V				
Viewing Angle: 30–100° (dependant on model)				
Life Expectancy: 100,000 ho	urs			
Temperature Range: -40 to +85°C (operating & storage)				
Torque: 75cNm				
Ø 16.00 +0.15/-0.0 PANEL CUTOUT	19.0010.7481AF			
	M16 x 1,0 THREAD			

Standard LED Intensity	y Prominent		Forward Voltage			
HE Red	100mcd	10mcd	2.0V			
Green	60mcd	5mcd	2.2V			
Yellow	50mcd	4mcd	2.1V			
Blue	540mcd	100mcd	3.3V			
White	1000mcd	120mcd	3.3V			
Orange	100mcd	200mcd	2.0V			
Bi-color (Typical) (Red/Green)	15/15mcd	14/10mcd	2.0V/2.2V			
Tri-color (Typical) (Red/Green/Yellow)	80/50/50mcd	180/30/30mcd	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	Prominent	Flush	Forward Voltage			
HE Red	17,000mcd	2000mcd	2.2V			
Green	4,100mcd	680mcd	3.5V			
Yellow	2,500mcd	350mcd	2.3V			
Blue	2,500mcd	300mcd	3.3V			
White	4,400mcd	200mcd	3.3V			
Orange	2,800mcd	300mcd	2.1V			
Hyper Bright LED	right LED Prominent		Forward Voltage			

Note: The operating voltage must not be exceeded by more that 10% as this will result in reduced life expectancy.

HE Red

Green

Yellow

Orange

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.

Luminous intensity will be reduced with lower operating current.

2,800mcd

2,200mcd

1,300mcd 850mcd 800mcd

250mcd

250mcd

200mcd

2.1V

3.2V 2.0V

2.1V

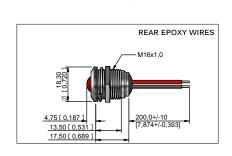
The company reserves the right to change specifications without notice * Customer to supply resistor for desired operating current.

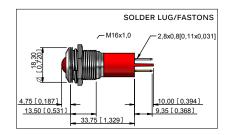
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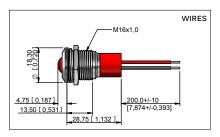
Technical Drawings

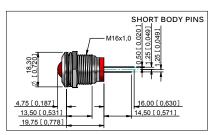


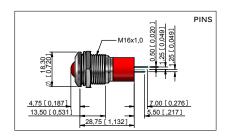


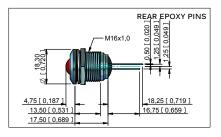


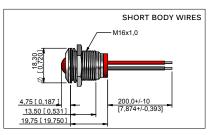






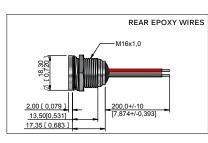


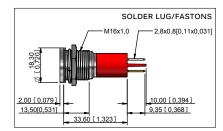


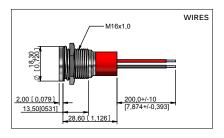


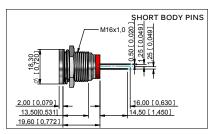
FLUSH BEZEL

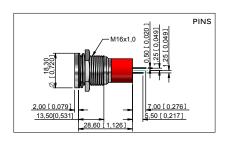


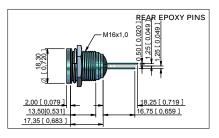


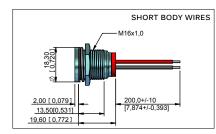












Q SERIES Ø16mm (.630") Panel Mount LED Indicators Custom options

Secret Until Lit Polycarbonate Inserts Cable length & connector Off On For custom cable length and connectors please contact APEM

Suffix the part number with legend code (see example on page 4)

Code	Symbol	Description	Code	Symbol	Description
-3AH		Turn Signal	-3PB	P	Park Brake
-313		Hazard	-398	DE	Side Lights
-3GP		Oil can	-3SB	A	Seat Belt
-3AG		Battery	-3TP		Tyre Pressure
-327	()≢	Rear fog	-3CE	HCHECK)	Check Engine
-397		Low beam	-3EC		Engine Temperature
-3BU		Brake test	-3FP		Fuel
-3K6		Arrow	-3BF	BRAKE FAILURE	Brake Failure
-3AJ	D	High beam			

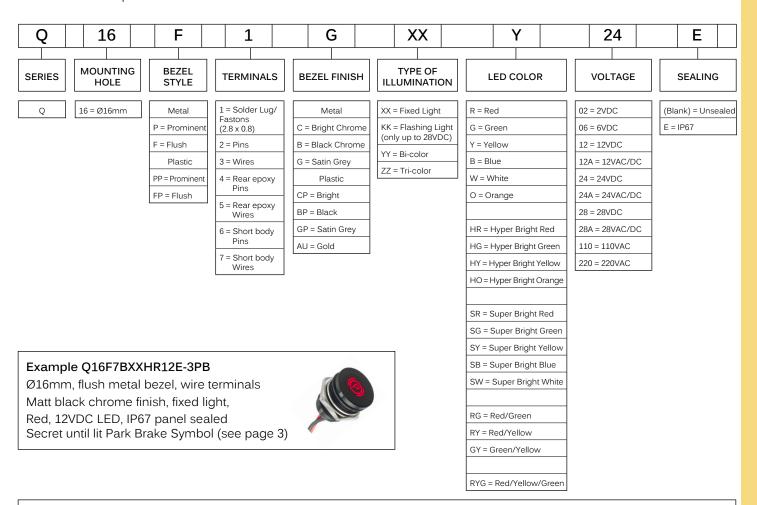
Some common codes are listed above, for your custom requirements please contact APEM.

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Overview

STANDARD OPTIONS

The Q16 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, 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 270°C 2 sec)
- Short body pins and wires are only available up to 28VDC
- · 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 11mm
- We recommend using Hyperbright or Superbright LEDs for use at 110VAC and 220VAC
- · For resistorless versions (02) please pay attention to the forward voltage
- For multi-voltage options please consult APEM