### Distinctive features and specification

VOYC1603R1US

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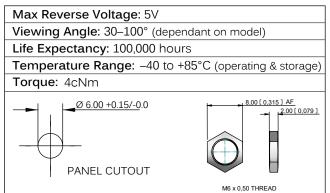
#### **Features**

- 6mm panel mounting LED indicator
- 3mm colored diffused epoxy lens or 3mm water clear super bright LEDs
- Plated brass bezel finished in bright chrome, black chrome or satin grey and moulded polycarbonate rear body
- · Prominent, recessed and flush bezel styles
- 2VDC 28VDC
- (2.0 x 0.5) solder lug 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	<b>Operating Current</b>			
	(Min to Max)	(Typical All Types)			
02 (No Resistor)	1.8 to 3.8VDC	20mA max*			
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			



Standard LED Intensity	Prominent and Recessed	Flush	Forward Voltage
HE Red	40mcd	10mcd	2.0V
Green	50mcd	12mcd	2.2V
Yellow	30mcd	6mcd	2.1V
Blue	1,200mcd	100mcd	3.8V
White	1,200mcd	160mcd	3.8V
Orange	60mcd	10mcd	2.0V
Bi-color (Typical) (Red/Green)	20/15mcd	10/8mcd	2.0V/2.2V
	The color is changed by reversing the po	plarity of the supply vo	ltage.

Super Bright LED	Prominent and Recessed	Flush	Forward Voltage
HE Red	1,000mcd	700mcd	2.2V
Green	1,200mcd	2,000mcd	3.5V
Yellow	2000mcd	8,000mcd	2.3V
Blue	1,600mcd	200mcd	3.3V
White	1,200mcd	350mcd	3.3V
Orange	10,000mcd	500mcd	2.2V

Hyper Bright LED	Prominent and Recessed	Flush	Forward Voltage
HE Red	3,700mcd	600mcd	2.2V
Green	2,000mcd	350mcd	3.2V
Yellow	1,200mcd	140mcd	2.0V
Orange	4,500mcd	400mcd	2.2V

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.

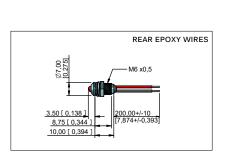
<sup>\*</sup> Customer to supply resistor for desired operating current.

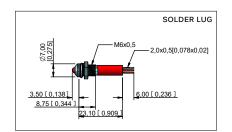
Luminous intensity is measured at 20mA on a discrete LED unless otherwise stated.

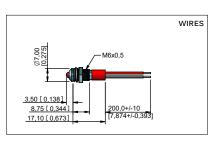
**Technical Drawings** 

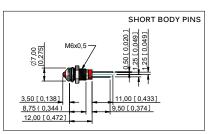
#### PROMINENT BEZEL

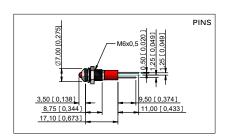


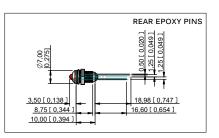


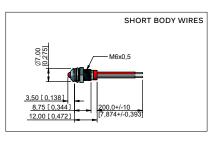






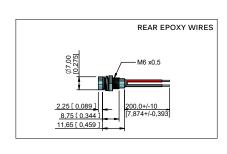


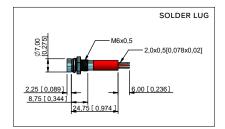


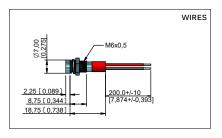


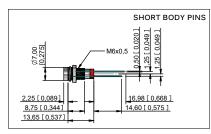
### RECESSED BEZEL

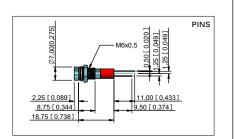


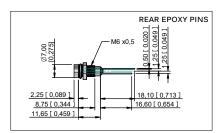


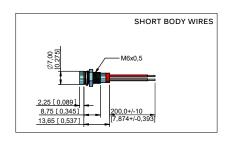




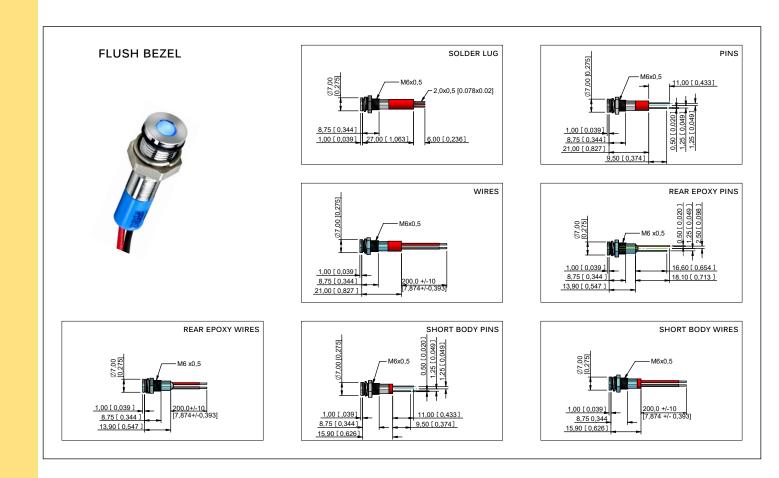






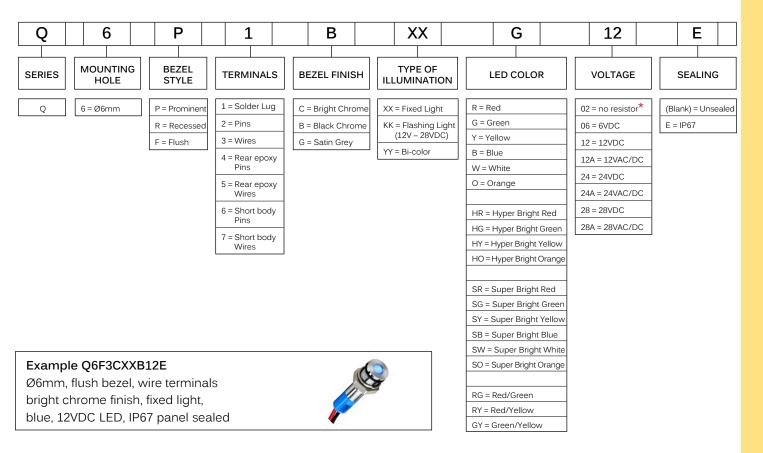


**Technical Drawings** 



#### STANDARD OPTIONS

The Q6 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 solder lug terminal denotes Anode (+), silver terminal denotes Cathode (-)
- Standard wire length is 200mm, 24AWG UL 1061, 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 solder lug (+) 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 terminals (recommended solder temperature 300°C 3 sec)
- Short body options are only available up to 24VDC
- · Maximum panel thickness 7mm

<sup>\* =</sup> For resistorless versions (02) please refer to the forward voltage on page 1