QS SERIES Snap-in Panel Mount LED Indicators

Distinctive features and specifications

VOYC1507US

Features

- 6mm, 8mm, 10mm and 12mm Ø cut-out sizes
- Front panel snap-in mounting requires no additional hardware
- · Colored diffused flat lenses
- Red, Green, Yellow, Blue, Orange, White (clear)
- 2VDC 220VAC
- 6mm solder lug (2.0x0.5mm) or 200mm wire terminations
- 8mm, 10mm, 12mm solder lug/Faston (2.8x0.8mm) or 200mm wire terminations
- · Standard intensity diffused LED or high brightness LED for daylight viewing
- Bi-color and Tri-Color option

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 110VAC	6mA
220VAC	207 to 253VAC	3mA

Max Reverse Voltage: 5V
Viewing Angle: 30-100° (dependant on model)
Life Expectancy: 100,000 hours
Operating Temperature Range: -40 to +85°C

Standard LED	Intensity	Forward Voltage
	(all voltages)	
HE Red	80mcd	2.0V
Green	40mcd	2.2V
Yellow	30mcd	2.1V
Blue	800mcd	3.3V
White(clear)	800mcd	3.3V
Orange	60mcd	2.0V
Bi-color (Typical) (Red/Green)	20/15mcd	2.0V/2.2V
Tri-color (Typical) (Red/Green/Yellow)	60/50mcd	2.5V

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.

High Brightness	Intensity	Forward Voltage
	(all voltages)	
HE Red	6,000mcd	2.2V
Green	4,000mcd	3.3V
Yellow	1,380mcd	2.0V
Orange	4,000mcd	2.2V

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.

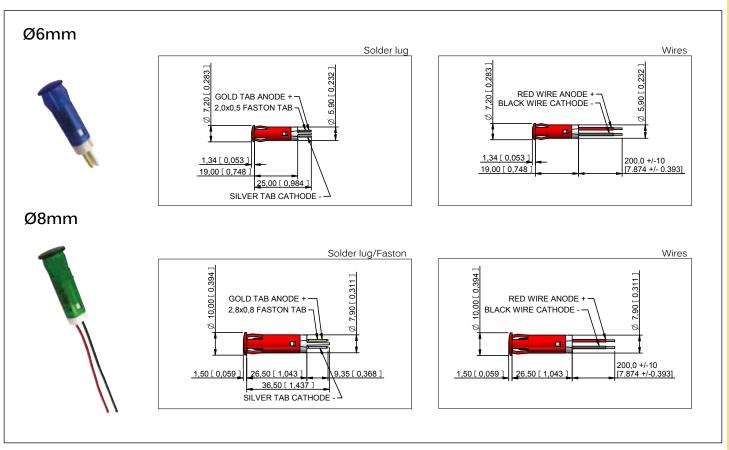
* Customer to supply resistor for desired operating current.

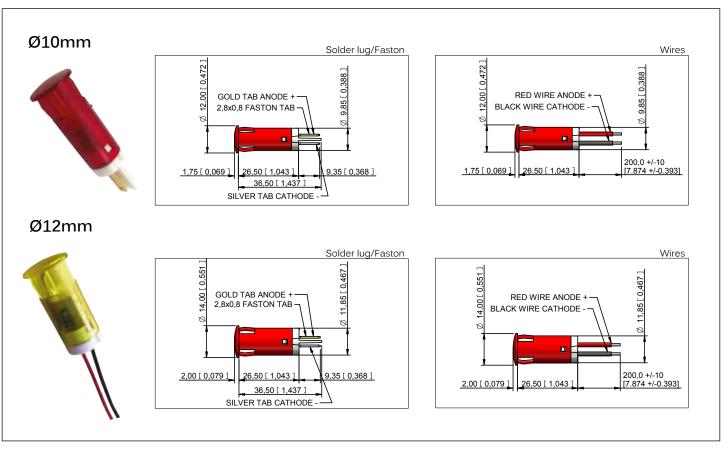
Luminous intensity is measured at 20mA on a discrete LED unless otherwise stated.

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

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Technical Drawings



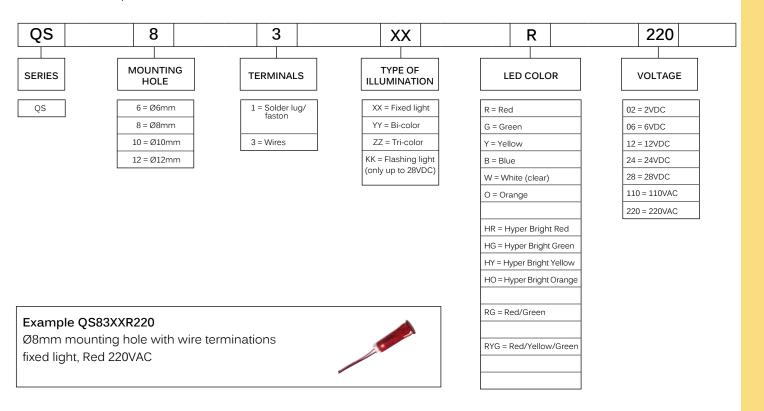


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Order Overview

STANDARD OPTIONS

The QS 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/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 alternate 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)
- The Tri-color LED has red and green LEDs when both are connected yellow is produced
- Maximum panel thickness 11mm
- · We recommend using high brightness LEDs for use at 220VAC
- For resistorless versions (02) please pay attention to the forward voltage
- For multi-voltage options please consult APEM