QS series

Snap-in panel mount LED indicators

) DISTINCTIVE FEATURES

6 mm, 8 mm, 10 mm and 12 mm Ø cut-out sizes Front panel snap-in mounting requires no additional hardware Standard intensity diffused LED or high brightness LED for daylight viewing



NPQ5-2209

GENERAL SPECIFICATIONS

- Operating Temperature Range: -30 °C to +65 °C (-22 °F to +149 °F)
- Max Reverse Voltage: 5 V
- Life Expectancy: 100,000 hours
- Max Panel Thickness: 0.8 to 1.6 mm



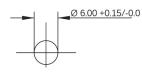
MATERIALS

Moulded polycarbonate

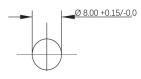


MOUNTING

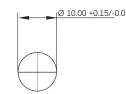
QS6 SERIES PANEL CUT-OUT



OS8 SERIES PANEL CUT-OUT



QS10 SERIES PANEL CUT-OUT



QS12 SERIES PANEL CUT-OUT



The company reserves the right to change specifications without notice.

LED characteristics are dependent upon environmental conditions. Therefore published data should be considered nominal and subject to variations.





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ELECTRICAL SPECIFICATIONS

STANDARD	LED	INTENSITY

LED COMPONENT SPECIFICATIONS						
	6 mm Intensity	8, 10 & 12 mm Intensity	Forward Voltage			
HE Red	40 mcd	100 mcd	2.0 V			
Green	40 mcd	60 mcd	2.2 V			
Yellow	30 mcd	50 mcd	2.1 V			
Orange	30 mcd	30 mcd	2.5 V			
Blue	1,200 mcd	1,600 mcd	3.8 V			
White (clear)	1,200 mcd	1,600 mcd	3.8 V			
Bi-color (Typical) (Red/Green)	60 mcd	45 mcd	2.0 V			
Tri-color (Typical) (Red/Green/Yellow)	-	60/15/13mcd	2.5 V			

	Bi-color - The color is changed by reversing the polarity of the supply voltage.					
1	Tri-color - The indic	ator has red and gree	n LEDs when both conn	nected yellow is produced.		

Voltage Operating Voltage Operating Current (Min to Max) (Typical All Types) 02 (No Resistor) 2.1 to 3.3 VDC 20 mA max* 6 VDC 5.4 to 6.6 VDC 20 mA 12 VDC 10.8 to 13.2 VDC 20 mA 24 VDC 21.6 to 26.4 VDC 20 mA 25.2 to 30.8 VDC 28 VDC 20 mA 110 VAC (not available 99 to 110 VAC 6 mA on QS6) 220 VAC 207 to 253 VAC (not available 3 mA on QS6)

* Customer to supply resistor for desired operating current.

HIGH BRIGHTNESS LED INTENSITY

LED COMPONENT SPECIFICATIONS						
	6 mm Intensity	8, 10 & 12 mm Intensity	Forward Voltage			
HE Red	3,700 mcd	6,000 mcd	2.2 V			
Green	2,000 mcd	1,900 mcd	3.2 V			
Yellow	1,200 mcd	2,100 mcd	2.0 V			
Orange	8,000 mcd	4,200 mcd	2.2 V			

- The operating voltage must not be exceeded by more that 10% as this will result in reduced life expectancy
- Luminous intensity is measured at 20 mA 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.

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В

W

0

HR

HG

HY

HO

RG

RYG

Flashing light

(12 - 28 VDC)

KK

Blue

Orange

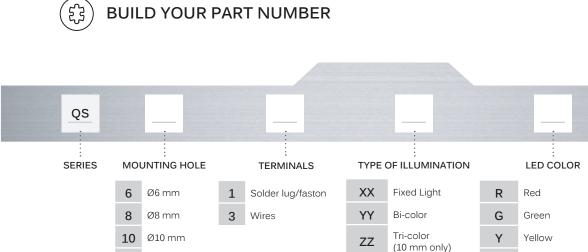
Red/Green

Red/Yellow/Green

(10 mm Only)

Red

White (clear)



110 110 VAC Hyper Bright 220 220 VAC Hyper Bright Green Hyper Bright Yellow Hyper Bright Orange

* please refer to the forward voltage in electrical specifications

VOLTAGE

6 VDC

12 VDC

24 VDC

28 VDC

No resistor*

02

06

12

24

28

ABOUT THIS SERIES

12

Ø12 mm

Notice: please note that not all combinations of above numbers are available. Not all LED flashing options are available in this range, please contact APEM.

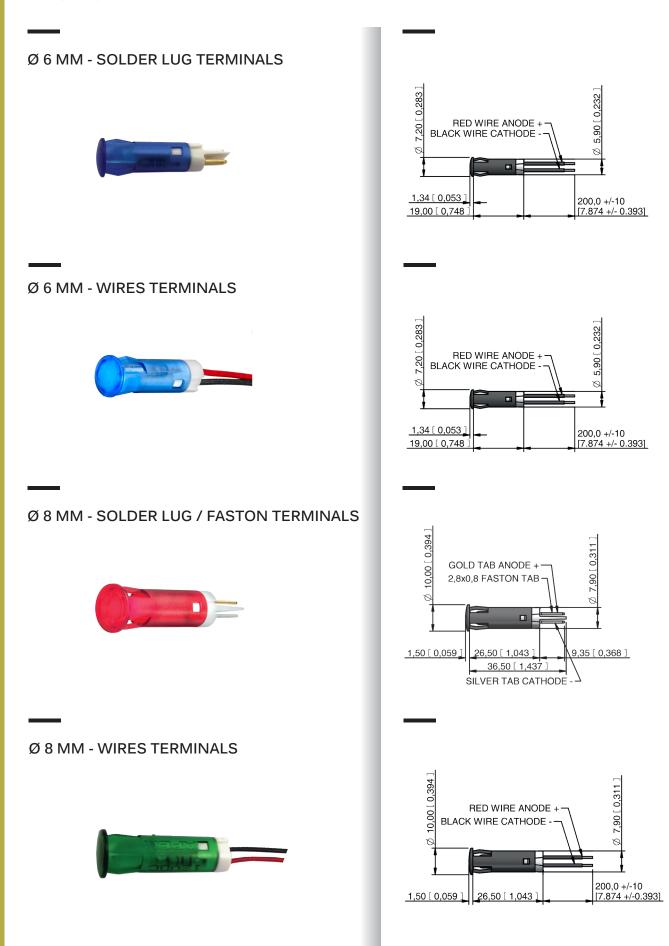
• Gold solder lug/Faston terminal denotes Anode (+), silver terminal denotes Cathode (-)

• Standard wire length is 200mm, QS6 & QS8 24 AWG UL1061, QS10 & QS12 22 AWG UL1061, red wire denotes Anode (+), black wire denotes Cathode (-) for other wire lengths consult APEM

- For LEDs with alternate voltages and multi-voltage options consult APEM.
- Bi-color LEDs, by connecting the gold Faston (+) one color is produced, by reversing the supply voltage another color is produced. Bi-color are available up to 28 VDC.
- Take care when soldering (recommended solder temperature 270 °C 2 sec).
- The Tri-color LED has red and green LEDs when both are connected yellow is produced
- We recommend using high brightness LEDs for use at 220 VAC
- 6 mm not available in 110 VAC or 220 VAC
- Mains voltage product is not recommended for use on 3 phase appliances



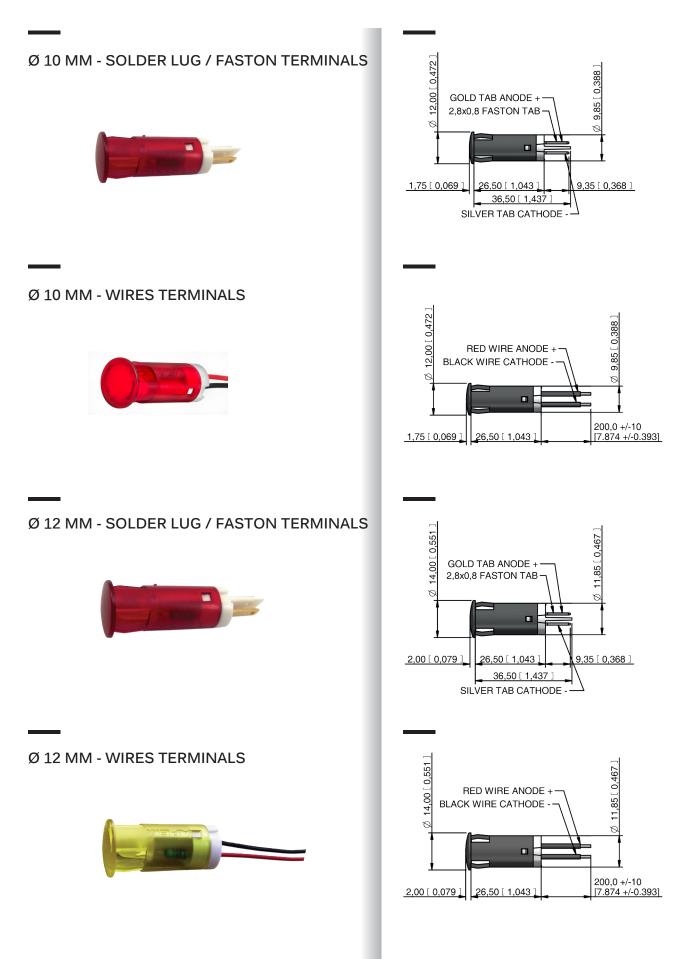
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QS series

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