

QS-Series Snap-in Panel Mount LED Indicators



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QS SERIES Snap-in Panel Mount LED Indicators Features and Specifications

FEATURES

- 6mm, 8mm, 10mm and 12mmØ cut-out sizes
- Front panel snap-in mounting requires no additional hardware
- Coloured diffused flat lenses
- Available colours: Red, Green, Yellow, Blue, Orange, White (clear)
- Voltage range: 2VDC 220VAC
- Terminations: solder lug/faston, 6mm (2.0 x 0.5mm), 8mm, 10mm, 12mm (2.8 x 0.8mm) or wires (200mm standard length)
- Standard intensity diffused LEDs or high brightness LEDs for daylight viewing
- Bi-colour LED option
- UL496 recognised component

OPTICAL SPECIFICATIONS Colour Operating Intensity Intensity Forward Voltage Operating Forward Std LED (mcd) Voltage (V) **High Brightness** Voltage (V) Voltage urrent (min to max) (typical all types) (mcd) 25 2.0 2.2 2VDC (no resistor) 1.8 to 2.5VDC 20mA* Red 6000 Green 20 2.2 1200 3.3 12VDC 10.8 to 13.2VDC 20mA Yellow 20 2.1 380 2.0 24VDC 21.6 to 26.4VDC 20mA 800 3.3 1600 3.3 28VDC 25.2 to 30.8VDC 20mA Blue 30 2.0 4100 2.2 110VAC 99 to 110VAC 6mA Orange White (clear) 1200 3.3 2500 3.3 220VAC 207 to 253VAC 3mA *Customer to supply resistor for desired operating current

TECHNICAL CHARACTERISTICS

- Max reverse voltage: 5V
- Viewing angle: 30° (standard LED), 45° (high brightness LED)
- Life expectancy: 100,000 hours
- Operating temperature range: -30° to +85°C
- Storage temperature: -40° to +100°C
- Panel thickness (preferable): 0.8mm(0.031") 1.6mm(0.062")

MATERIALS

- Lens: Polycarbonate (UL94V-0)
- Body moulding: Polycarbonate (UL94V-0)
- Solder lug/faston terminals: Gold (flash)/Silver (flash), Brass
- Wires: 6mm, 8mm = 24AWG, 10mm, 12mm = 22AWG
- All wires PVC (UL1061)





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QS SERIES Snap-in Panel Mount LED Indicators Technical Drawings



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Order Overview



TECHNICAL CHARACTERISTICS

- Gold faston terminal denotes Anode (+), silver terminal denotes Cathode (-)
- Standard wire length is 200mm, red wire denotes Anode (+), black wire denotes Cathode (-). For other wires lengths consult APEM (6mm and 8mm use 24AWG, 10mm and 12mm use 22AWG)
- For LED's with alternative voltages consult APEM
- Bi-colour LEDs, by connecting the gold faston (+) one colour is produced, by reversing the supply voltage another colour is produced – Bi-colours are available up to 28VDC. [AC products not available]
- Take care if soldering to the faston terminals
- All 110VAC and 220VAC LED indicators will be supplied with high brightness LEDs
- For resistorless versions (02) please pay attention to the forward voltage
- Flashing LEDs are available as a special option

W = White (clear)
HR = High Brightness Red
HG = High Brightness Green
HY = High Brightness Yellow
HB = High Brightness Blue
HO = High Brightness Orange
HW= High Brightness White

RG = Red/Green

APEM product ranges



Switches



Joysticks



Switch Panels



Indicators

Addresses of sales subsidiaries and distributors on www.apem.com

