

APEM

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	Intensity Std LED (mcd)	Forward Voltage (V)	Intensity High Brightness (mcd)	Forward Voltage (V)	Voltage	Operating Voltage (min to max)	Operating Current (typical all types)
Red	25	2.0	6000	2.2	2VDC (no resistor)	1.8 to 2.5VDC	20mA*
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
Blue	800	3.3	1600	3.3	28VDC	25.2 to 30.8VDC	20mA
Orange	30	2.0	4100	2.2	110VAC	99 to 110VAC	6mA
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)



QS SERIES

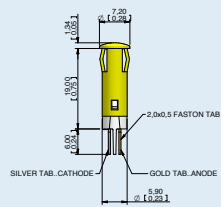
Snap-in Panel Mount LED Indicators

Technical Drawings

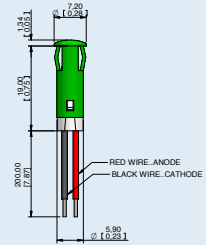
6mmØ



SOLDER LUG/FASTON



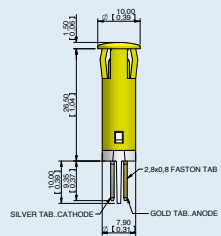
WIRES



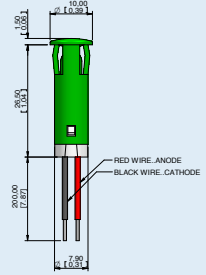
8mmØ



SOLDER LUG/FASTON



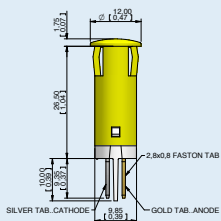
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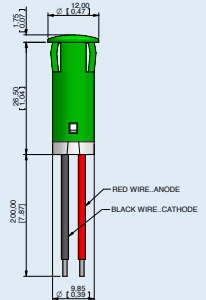
10mmØ



SOLDER LUG/FASTON



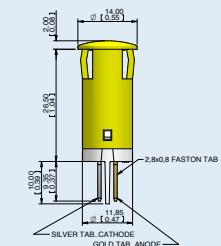
WIRES



12mmØ



SOLDER LUG/FASTON



WIRES

