

QS-Series Snap-in Panel Mount LED Indicators



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

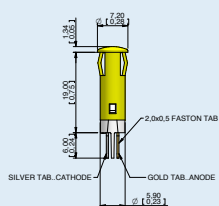
Snap-in Panel Mount LED Indicators

Technical Drawings

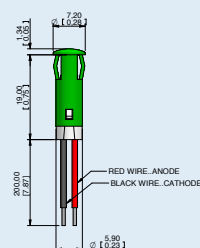
6mmØ



SOLDER LUG/FASTON



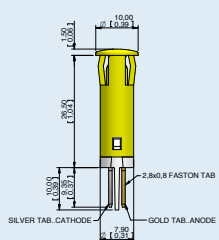
WIRES



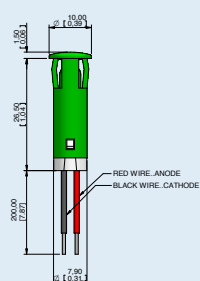
8mmØ



SOLDER LUG/FASTON



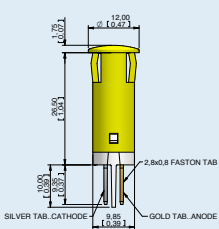
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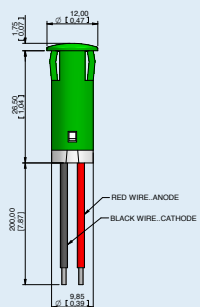
10mmØ



SOLDER LUG/FASTON



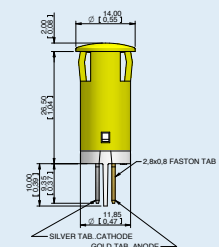
WIRES



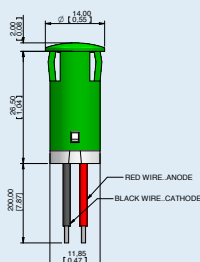
12mmØ



SOLDER LUG/FASTON



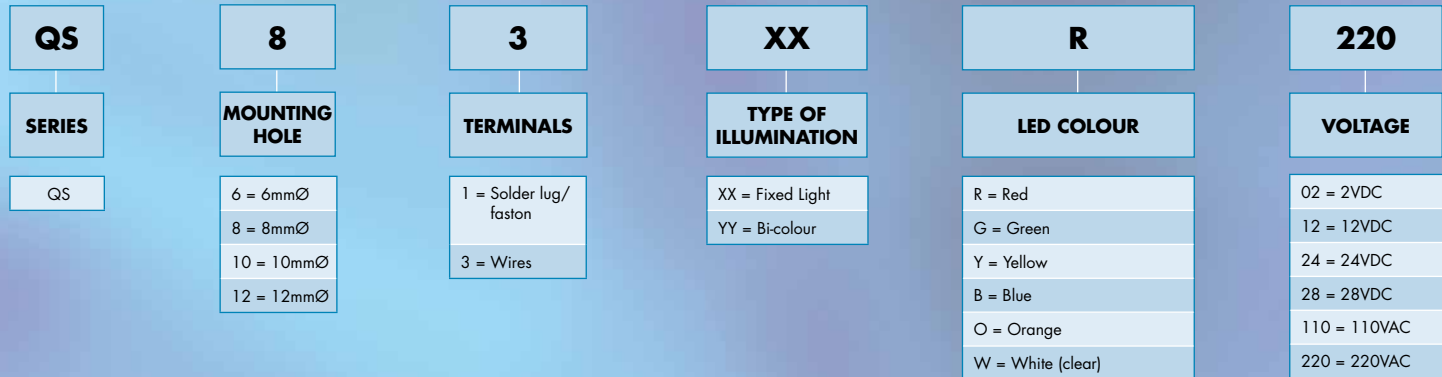
WIRES



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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

Apem指示灯 QS系列 : APEM型号 :

QS83XXHG110 ; QS63XXG24 ; QS123XXW24 ; QS81XXHO110 ;
QS63XXW12 ; QS81XXG24 ; QS123XXR12 ; QS123XXHG220 ; QS61XXW24 ;
QS81XXG12 ; QS61XXY12 ; QS103XXHG110 ; QS103XXHO110 ;
QS103XXHR220 ; QS83XXHG220 ; QS103XXR12 ; QS123XXHB220 ;
QS61XXW12 ; QS63XXW24 ; QS103XXHW220 ; QS63XXR24 ;
QS83XXHY110 ; QS103XXW24 ; QS101XXO24 ; QS123XXHO220 ;
QS123XXW12 ; QS63XXY12 ; QS83XXHW220 ; QS103XXW12 ; QS81XXB24 ;
QS61XXR12 ; QS63XXY24 ; QS83XXHR220 ; QS103XXHY110 ; QS121XXHG220 ;
QS81XXR12 ; QS83XXY24 ; QS121XXO12 ; QS81XXHW220 ; QS101XXO12 ;
QS81XXY12 ; QS101XXHW220 ; QS121XXO24 ; QS81XXW12 ; QS123XXHW110 ;
QS83XXHY220 ; QS101XXHG110 ; QS123XXHY220 ; QS63XXB24 ;
QS61XXB12 ; QS81XXW24 ; QS81XXR24 ; QS83XXHO220 ; QS121XXHY110 ;
QS81XXHW110 ; QS103XXHB110 ; QS81XXHR110 ; QS103XXHG220 ;
QS121XXG24 ; QS121XXHW220 ; QS81XXB12 ; QS81XXO12 ;
QS121XXHY220 ; QS103XXHB220 ; QS81XXO24 ; QS101XXG24 ;
QS83XXG12 ; QS83XXHB220 ; QS101XXG12 ; QS83XXG24 ;
QS101XXHY110 ; QS121XXG12 ; QS121XXY24 ; QS63XXR12 ;
QS81XXHG110 ; QS101XXB24 ; QS121XXHG110 ; QS83XXB24 ;
QS81XXHB110 ; QS83XXB12 ; QS121XXB24 ; QS101XXY24 ;
QS121XXHW110 ; QS123XXHY110 ; QS81XXHY220 ;
QS101XXY12 ; QS103XXHO220 ; QS121XXB12 ; QS101XXB12 ;
QS121XXHR110 ; QS121XXY12 ; QS121XXHO220 ; QS121XXR12 ;
QS123XXHG110 ; QS101XXHG220 ; QS63XXG12 ; QS123XXHB110 ;
QS81XXHR220 ; QS101XXHB220 ; QS101XXR12;

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