IND ORMS 1808

QRM8 series

Ø8 mm rear panel mount LED indicators



DISTINCTIVE FEATURES

5 mm flush diffused LED, standard, hyper bright or water clear Bi-color and tri-color LED options 200 mm wire or pin terminations



ENVIRONMENTAL SPECIFICATIONS

- IP67 sealing option (EN60529)
- Operating Temperature Range: -40 °C to +85 °C (-40 °F to +185 °F)
- Storage Temperature Range: -55 °C to +100 °C (-67 °F to +212 °F)



GENERAL SPECIFICATIONS

- Max Reverse Voltage: 5 V
- Viewing Angle: 60°
- Life Expectancy: 100,000 hours
- Max Panel Thickness: 3.5 mm
- Torque: 60 cNm

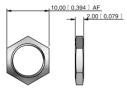


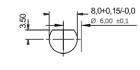
MATERIALS

- Body: Black plated brass or anodized aluminum
- Lock Washer: Spring steel
- Nut: Black plated brass
- Terminal Seal: Epoxy
- Panel Seal: Nitrile O-ring
- Wires: 24 AWG to UL1061



MOUNTING





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 | | |
|---|---------------------------|-------------------|
| | MCD Output (all voltages) | Forward Voltage |
| HE Red | 8 mcd | 2.0 V |
| Green | 6 mcd | 2.2 V |
| Yellow | 6 mcd | 2.1 V |
| Blue | 50 mcd | 3.8 V |
| White | 500 mcd | 3.3 V |
| Bi-color (Typical) (Red/Green) | 15/10 mcd | 2.0 V/2.2 V |
| Tri-color (Typical) (Red/Green/Yellow) | 15/10/6 mcd | 2.0 V/2.2 V/2.1 V |

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.

SUPER BRIGHT LED INTENSITY

| LED COMPONENT SPECIFICATIONS | | | |
|------------------------------|---------------------------|-----------------|--|
| | MCD Output (all voltages) | Forward Voltage | |
| HE Red | 1,300 mcd | 2.2 V | |
| Green | 1,200 mcd | 3.3 V | |
| Yellow | 350 mcd | 2.0 V | |
| Blue | 280 mcd | 3.3 V | |
| White | 950 mcd | 3.3 V | |
| Orange | 500 mcd | 2.2 V | |

HYPER BRIGHT LED INTENSITY

| MCD Output (all voltages) | Forward Voltage |
|---------------------------|--------------------|
| 980 mcd | 2.2 V |
| 300 mcd | 3.3 V |
| 250 mcd | 2.0 V |
| | 980 mcd 300 mcd |

- 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.

| Operating Voltage | Operating Current |
|-------------------|--|
| (Min to Max) | (Typical All Types) |
| 1.8 to 3.8 VDC | 20 mA max |
| 5.4 to 6.6 VDC | 20 mA |
| 10.8 to 13.2 VDC | 20 mA |
| 21.6 to 26.4 VDC | 20 mA |
| 25.2 to 30.8 VDC | 20 mA |
| | (Min to Max) 1.8 to 3.8 VDC 5.4 to 6.6 VDC 10.8 to 13.2 VDC 21.6 to 26.4 VDC |

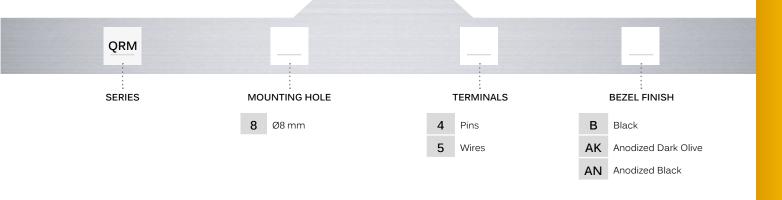
^{*} Customer to supply resistor for desired operating current.

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BUILD YOUR PART NUMBER







ABOUT THIS SERIES

- (!) Notice: please note that not all combinations of above numbers are available.
 - Standard wire length is 200 mm, 24 AWG UL1061, red wire denotes Anode (+), black wire denotes Cathode (-) for other wire lengths consult APEM.
 - \bullet 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.
 - Standard Tri-color termination is two Anodes (+) and one Cathode (-).
 - Tri-color wires are one red (+) and one green (+) Anode and one black (-) Cathode.
 - Tri-color pins are center (-) Cathode, shortest (+) Anode pin green, longest (+) Anode pin red.

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REAR MOUNT - PINS TERMINALS



REAR MOUNT - WIRES TERMINALS



CUSTOM OPTIONS - FIXED AND BI-COLOR - LONG BODY - RIGID PINS

-X0245

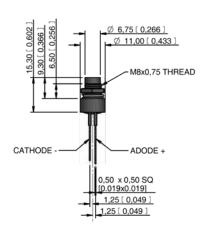
To apply the above custom option, suffix the part number with the -X reference number. Example / QRM84BXXHB24AE-X0245

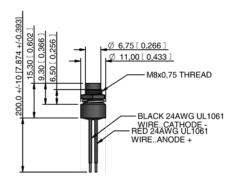
CUSTOM OPTIONS - TRI-COLOR - LONG BODY - RIGID PCB TERMINALS

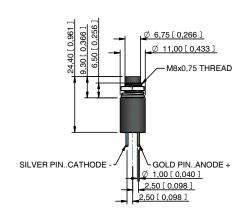


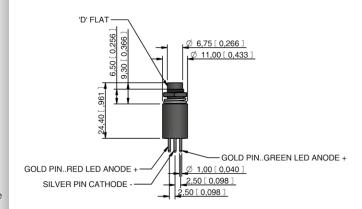
-X0246

To apply the above custom option, suffix the part number with the -X reference number. Example / QRM84BXXHB24AE-X0246









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CUSTOM OPTIONS - FIXED AND BI-COLOR - STANDARD BODY - RIGID PINS

-X0259

To apply the above custom option, suffix the part number with the -X reference number. Example / QRM84BXXHB24AE-X0259

HARDWARE - CYLINDRICAL DRESS NUTS - 8 MM - BLACK PLATED BRASS



P/N: AUK0001

HARDWARE - KNURLED DRESS NUTS - 8 MM - BLACK PLATED BRASS



P/N: AUK0002

