

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

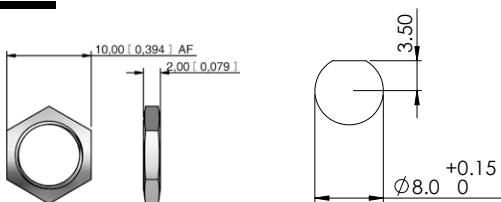


MATERIALS

- 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

LED COMPONENT SPECIFICATIONS		
	MCD Output (all voltages)	Forward Voltage
HE Red	980 mcd	2.2 V
Green	300 mcd	3.3 V
Yellow	250 mcd	2.0 V

- The operating voltage must not be exceeded by more than 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.

Voltage	Operating Voltage	Operating Current
	(Min to Max)	(Typical All Types)
02 (No Resistor)	1.8 to 3.8 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
28 VDC	25.2 to 30.8 VDC	20 mA

* Customer to supply resistor for desired operating current.

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BUILD YOUR PART NUMBER

<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">QRM</div> <p>.....</p> <p>SERIES</p>	<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">8</div> <p>.....</p> <p>MOUNTING HOLE</p> <p>Ø8 mm</p>	<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">4</div> <p>.....</p> <p>TERMINALS</p> <p>Pins</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">5</div> <p>.....</p> <p>Wires</p>	<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">B</div> <p>.....</p> <p>BEZEL FINISH</p> <p>Black</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">AK</div> <p>.....</p> <p>Anodized Dark Olive</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">AN</div> <p>.....</p> <p>Anodized Black</p>		
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">XX</div> <p>.....</p> <p>TYPE OF ILLUMINATION</p> <p>Fixed Light</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">YY</div> <p>.....</p> <p>Bi-color</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">ZZ</div> <p>.....</p> <p>Tri-color</p>	<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">R</div> <p>.....</p> <p>LED COLOR</p> <p>Red</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">G</div> <p>.....</p> <p>Green</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">Y</div> <p>.....</p> <p>Yellow</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">B</div> <p>.....</p> <p>Blue</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">W</div> <p>.....</p> <p>White</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">HR</div> <p>.....</p> <p>Hyper Bright Red</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">HG</div> <p>.....</p> <p>Hyper Bright Green</p>	<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">HY</div> <p>.....</p> <p>Hyper Bright Yellow</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">SR</div> <p>.....</p> <p>Super Bright Red</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">SG</div> <p>.....</p> <p>Super Bright Green</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">SY</div> <p>.....</p> <p>Super Bright Yellow</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">SB</div> <p>.....</p> <p>Super Bright Blue</p>	<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">SW</div> <p>.....</p> <p>Super Bright White</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">SO</div> <p>.....</p> <p>Super Bright Orange</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">RG</div> <p>.....</p> <p>Red/Green</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">RY</div> <p>.....</p> <p>Red/Yellow</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">GY</div> <p>.....</p> <p>Green/Yellow</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">RYG</div> <p>.....</p> <p>Red/Yellow/Green</p>	<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">02</div> <p>.....</p> <p>VOLTAGE</p> <p>no resistor*</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">06</div> <p>.....</p> <p>6 VDC</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">12</div> <p>.....</p> <p>12 VDC</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">24</div> <p>.....</p> <p>24 VDC</p> <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">28</div> <p>.....</p> <p>28 VDC</p> <p><small>* please refer to the forward voltage in electrical specifications</small></p>	<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">E</div> <p>.....</p> <p>SEALING</p> <p>IP67 (Standard)</p>



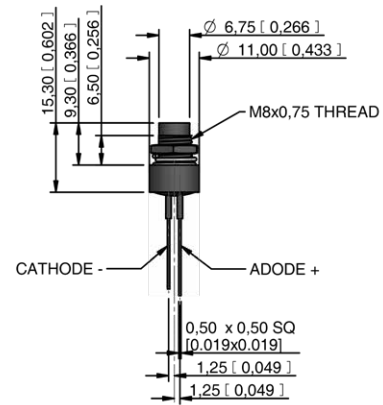
ABOUT THIS SERIES

- 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.
 - 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.

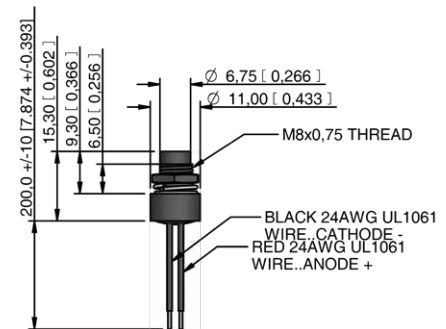
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REAR MOUNT - PINS TERMINALS



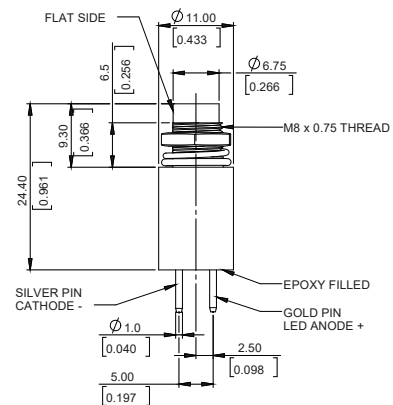
REAR MOUNT - WIRES TERMINALS



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

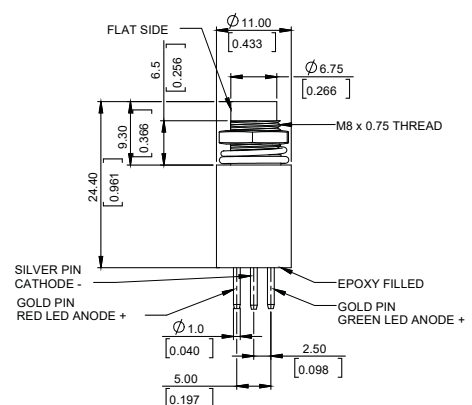
-X0245

To apply the above custom option, suffix the part number with the -X reference number. **Example** / QRM84BXXR24AE-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** / QRM84BXXRYG24E-X0246

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 / QRM84BXXHR24AE-X0259**

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

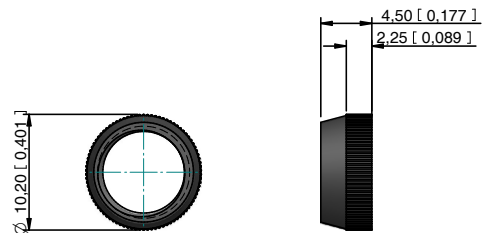
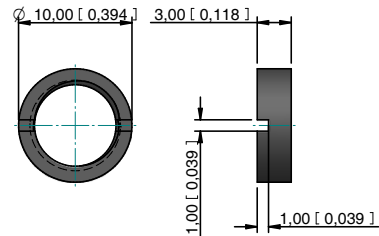
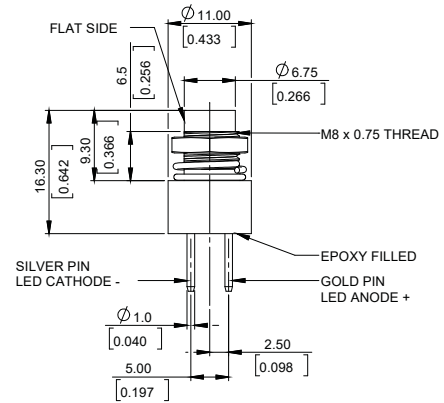


P/N : AUK0001

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



P/N : AUK0002



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