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QRM6 series

Ø6 mm rear panel mount LED indicators

DISTINCTIVE FEATURES

3 mm flush diffused LED, standard, hyper bright or clear water
Bi-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)

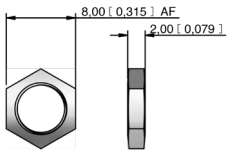
GENERAL SPECIFICATIONS

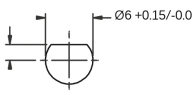
- Max Reverse Voltage: 5 V
- Viewing Angle: 60°
- Life Expectancy: 100,000 hours
- Max Panel Thickness: 3.5 mm
- Torque: 60 cNm

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 or UL1213 on request

MOUNTING





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ELECTRICAL SPECIFICATIONS

STANDARD LED INTENSITY

LED COMPONENT SPECIFICATIONS		
	MCD Output (all voltages)	Forward Voltage
HE Red	10 mcd	2.0 V
Green	8 mcd	2.2 V
Yellow	6 mcd	2.1 V
Blue	200 mcd	3.8 V
White	500 mcd	3.3 V
Bi-color (Typical) (Red/Green)	10/8 mcd	2.0 V/2.2 V
Bi-color - The color is changed by reversing the polarity of the supply voltage.		

SUPER BRIGHT LED INTENSITY

LED COMPONENT SPECIFICATIONS		
	MCD Output (all voltages)	Forward Voltage
HE Red	700 mcd	2.2 V
Green	2,000 mcd	3.5 V
Yellow	8,000 mcd	2.3 V
Blue	200 mcd	3.3 V
White	350 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	600 mcd	2.2 V
Green	350 mcd	3.2 V
Yellow	140 mcd	2.0 V

- 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.

Voltage	Operating Voltage (Min to Max)	Operating Current (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

QRM _ _ _ _ _ _ _ _

SERIES

QRM

MOUNTING HOLE

6	Ø6 mm

TERMINALS

4	Pins
5	Wires

BEZEL FINISH

B	Black
AK	Anodized Dark Olive
AN	Anodized Black

TYPE OF ILLUMINATION

XX	Fixed Light
YY	Bi-color

LED COLOR

R	Red
G	Green
Y	Yellow
B	Blue
W	White
HR	Hyper Bright Red
HG	Hyper Bright Green
HY	Hyper Bright Yellow
SR	Super Bright Red
SG	Super Bright Green
SY	Super Bright Yellow
SB	Super Bright Blue
SW	Super Bright White
SO	Super Bright Orange
RG	Red/Green
RY	Red/Yellow
GY	Green/Yellow

VOLTAGE

02	no resistor*
06	6 VDC
12	12 VDC
24	24 VDC
28	28 VDC

* please refer to the forward voltage in electrical specifications

SEALING

E	IP67 (Standard)

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)

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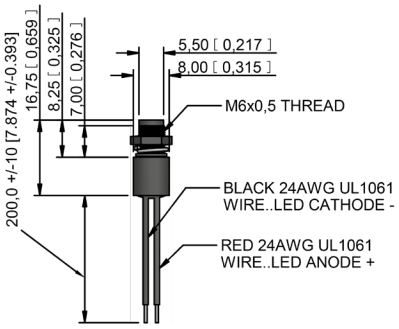
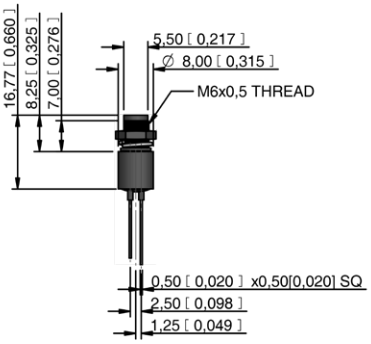
REAR MOUNT - WIRE TERMINALS WITH STANDARD BODY



REAR MOUNT - PINS TERMINALS WITH STANDARD BODY



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