

QRM6 SERIES Rear Panel Mount LED Indicators

Distinctive features and specifications

QRM6_VOY1609R1US

Features

- Ø6mm rear mounting LED indicator
- 3mm flush diffused LED, standard, hyper bright or water clear
- Bi-color LED options
- Black chrome finish
- 2VDC – 28VAC.DC
- 200mm wires or pin terminations
- IP67 sealed (EN60529)
- Epoxy sealed rear end
- Supplied with fixing nut, spring washer and O-ring

NB: UL Recognized Component



TECHNICAL SPECIFICATIONS

Voltage	Operating Voltage (Min to Max)	Operating Current (Typical All Types)
02 (No Resistor)	1.8 to 3.8VDC	20mA max*
6VDC	5.4 to 6.6VDC	20mA
12VDC	10.8 to 13.2VDC	20mA
24VDC	21.6 to 26.4VDC	20mA
28VDC	25.2 to 30.8VDC	20mA

Max Reverse Voltage: 5V

Viewing Angle: 60°

Life Expectancy: 100,000 hours

Operating Temperature Range: -40 to +85°C

Storage Temperature Range: -55 to +100°C

Max panel thickness: 3.5mm

Torque: 60cNm

Materials

Body: Black chrome plated brass	Lock washer: Spring steel
Nut: Black chrome plated brass	Terminal seal: Epoxy
Panel seal: Nitrile O-ring	Wires: 24AWG to UL1061



Standard LED Intensity	MCD Output (all voltages)	Forward Voltage
HE Red	10mcd	2.0V
Green	12mcd	2.2V
Yellow	6mcd	2.1V
Blue	100mcd	3.8V
White	160mcd	3.8V
Bi-color (Typical) (Red/Green)	10/8mcd	2.0V/2.2V

The color is changed by reversing the polarity of the supply voltage.

Super Bright	MCD Output (all voltages)	Forward Voltage
HE Red	700mcd	2.2V
Green	2000mcd	3.5V
Yellow	8000mcd	2.3V
Blue	200mcd	3.3V
White	350mcd	3.3V
Orange	500mcd	2.2V

Hyper Bright	MCD Output (all voltages)	Forward Voltage
HE Red	600mcd	2.2V
Green	350mcd	3.2V
Yellow	140mcd	2.0V

Luminous intensity will be reduced with lower operating current.

Note: The operating voltage must not be exceeded by more than 10% as this will result in reduced life expectancy.

The company reserves the right to change specifications without notice.

* Customer to supply resistor for desired operating current.

Luminous intensity is measured at 20mA on a discrete LED unless otherwise stated.

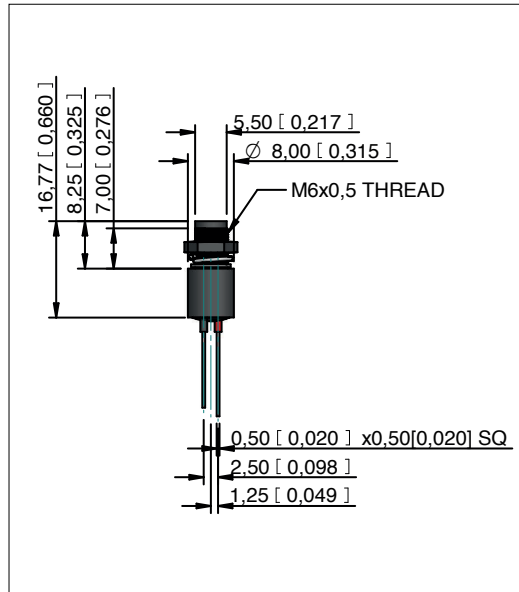
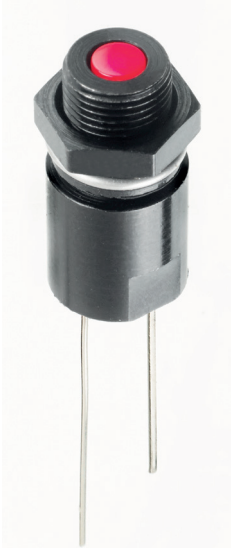
Luminous intensities and color shades of white LEDs may vary within a batch.

LED characteristics are dependent upon environmental conditions. Therefore published data should be considered nominal.

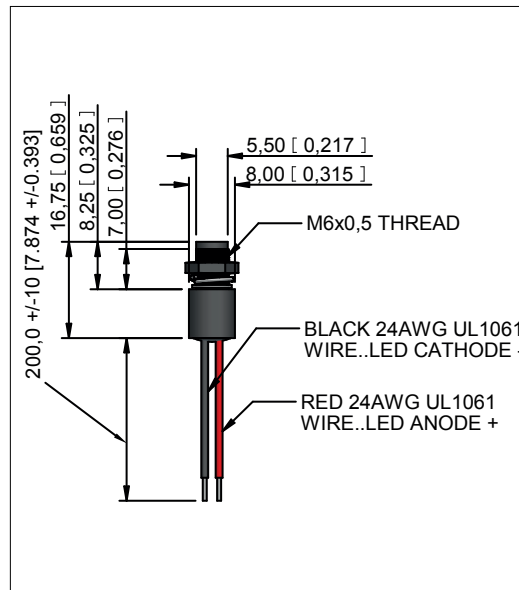
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Technical Drawings

Pins



Wires



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Overview

STANDARD OPTIONS

The QRM Series is available with a range of standard options, to specify your LED, simply choose one option from each column. An example is shown below.

QRM	6	4	B	XX	HB	24A	E
SERIES	MOUNTING HOLE	TERMINALS	BEZEL FINISH	TYPE OF ILLUMINATION	LED COLOR	VOLTAGE	SEALING
QRM	6 = Ø6mm	4 = Pins 5 = Wires	B = Black Chrome	XX = Fixed light YY = Bi-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	02 = no resistor* 06 = 6VDC 12 = 12VDC 24 = 24VDC 28 = 28VDC	E = IP67 (Standard)

Example QRM64BXXR24E

Ø6mm mounting hole with pin terminations, black chrome finish, fixed light, Red 24VDC, panel sealed to IP67.



- Standard wire length is 200mm, 24AWG UL1061, red wire denotes Anode (+), black wire denotes Cathode (-) for other wire lengths consult APEM
- For LEDs with alternate voltages 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 28VDC
- Take care when soldering (recommended solder temperature 270°C - 2 sec)
- Maximum panel thickness 3.5mm
- For multi-voltage options please consult APEM

* = For resistorless versions (02) please refer to the forward voltage on page 1