

QRM-NV series

Ø8 and Ø14 mm rear panel mount •
NVIS LED indicators



DISTINCTIVE FEATURES

NVIS Green A, NVIS Green B, NVIS Yellow, NVIS Red, NVIS White
NVIS compliant to MIL Std 3009

200 mm wire for Ø 8 and 14 mm or rigid pin (1.00 mm) for Ø8 mm 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: **Ø8 mm:** 60 cNm
Ø14 mm: 75 cNm



ELECTRICAL SPECIFICATIONS

Voltage	Operating Voltage (Min to Max)	Operating Current (Typical All Types)
02 (No Resistor)	2.1 to 3.3 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

LED COMPONENT SPECIFICATIONS

LED Color	NVIS Radiance	NVIS Chromaticity	Dominant Wavelength	MCD Output	Forward Voltage
NW1S Green A	$NR_A \leq 1.7eE-10 @ 0.1fL$	$r \leq .037$	530 nm	150 mcd	3.3 V
NW1S Green B	$NR_A \leq 1.7eE-10 @ 0.1fL$	$r \leq .057$	555 nm	150 mcd	3.3 V
NW1S Yellow Class A	$5.0E-8 \leq NR_A \leq 1.5E-7 @ 15fL$	$r \leq .083$	-	150 mcd	3.3V
NW1S Yellow Class B	$4.7E-8 \leq NR_B \leq 1.47E-7 @ 15fL$	$r \leq 0.83$	585 nm	150 mcd	3.3 V
NW1S Red	$4.7E-8 \leq NR_B \leq 1.4E-7 @ 15 fL$	$r \leq .060$	605 nm	110 mcd	2.1 V
NW1S White	$NR_A \leq 1.0E-9 @ 0.1fL$	$r \leq .40$	(x).33 (y).33	150 mcd	3.3 V

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 (CONTINUED)

- 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.



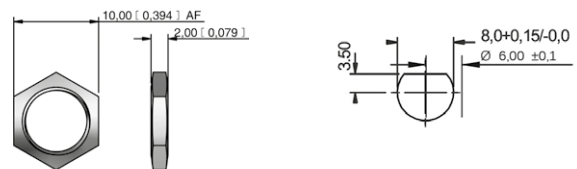
MATERIALS

- Body: Black plated brass or anodized aluminum
- Lock Washer: Spring steel
- Nut: Black plated brass
- Terminal Seal: Epoxy
- Panel Seal: Nitrile O-ring
- Wires: **Ø8 mm:** 24 AWG - Approved to UL1213
Ø14 mm: 22A WG - Approved to UL1007

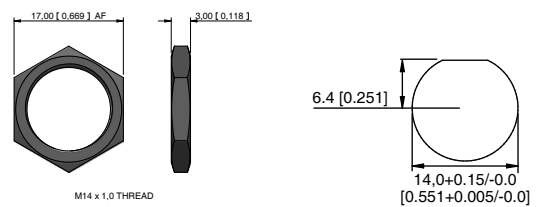


MOUNTING

Ø8 MM



Ø14 MM



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BUILD YOUR PART NUMBER

QRM-NV

SERIES

MOUNTING HOLE

8 Ø8 mm
14 Ø14 mm

TERMINALS

4 Rigid Pins
(only with Ø8 mm)
5 Wires

BEZEL FINISH

B Black
AK Anodized Dark Olive
AN Anodized Black

TYPE OF ILLUMINATION

XX Fixed Light

LED COLOR

NV-GRA NVIS Green A
NV-GRB NVIS Green B
NV-YWA NVIS Yellow A
NV-YWB NVIS Yellow B
NV-RD NVIS Red
NV-WH NVIS White

VOLTAGE

02 no resistor*
06 6 VDC
12 12 VDC
12A 12 VAC/DC
24 24 VDC
24A 24 VAC/DC
28 28 VDC
28A 28 VAC/DC

* please refer to the forward
voltage in electrical
specifications

SEALING

E IP67 (Standard)



ABOUT THIS SERIES



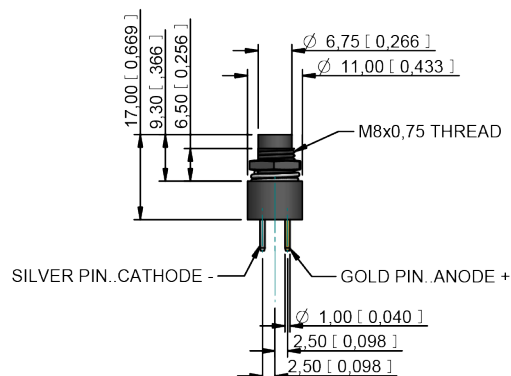
Notice: please note that not all combinations of above numbers are available.

- 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.
- Take care when soldering (recommended solder temperature 270°C - 2 sec).
- Suitable for the toughest environment and compliant to MIL standard specification

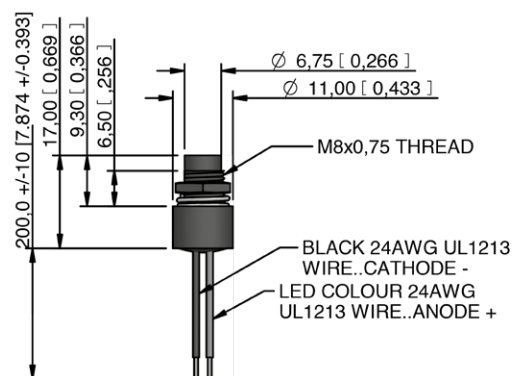
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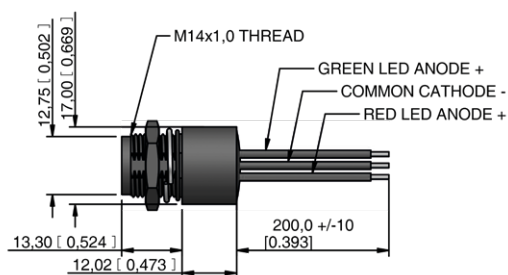
Ø8 MM REAR MOUNT - PINS TERMINALS



Ø8 MM REAR MOUNT - WIRES TERMINALS



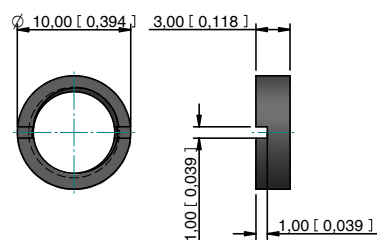
Ø14 MM REAR MOUNT - WIRES TERMINALS



HARDWARE - CYLINDRICAL DRESS NUTS - FOR Ø8 MM ONLY



P/N : AUK0001



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HARDWARE - KNURLED DRESS NUTS
- FOR Ø8 MM ONLY



P/N : AUK0002

