

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 3.3VDC	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

LED COMPONENT SPECIFICATIONS

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

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.



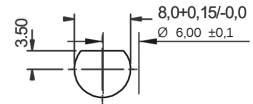
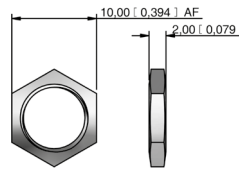
MATERIALS

- Body: Black chrome plated brass
- Lock Washer: Spring steel
- Nut: Black chrome 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

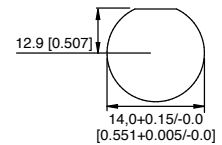
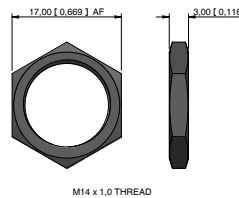


MOUNTING

Ø8 MM



Ø14 MM



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BUILD YOUR PART NUMBER

QRM-NV

SERIES

MOUNTING HOLE

TERMINALS

BEZEL FINISH

8 Ø8 mm

14 Ø14 mm

4 Rigid Pins
(only with Ø8 mm)

5 Wires

B Black Chrome

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

SEALING

E IP67 (Standard)

* please refer to the forward voltage in electrical specifications



ABOUT THIS SERIES



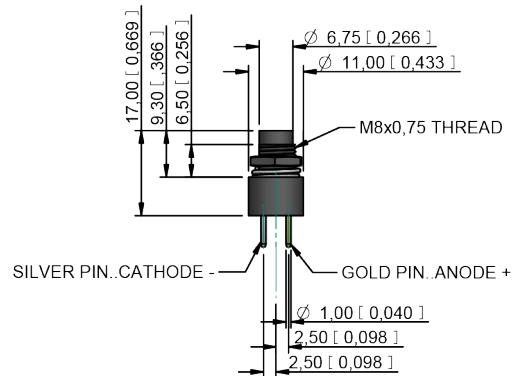
Notice: please note that not all combinations of above numbers are available.

- 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

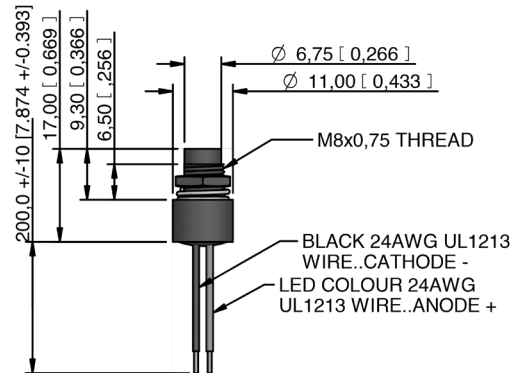
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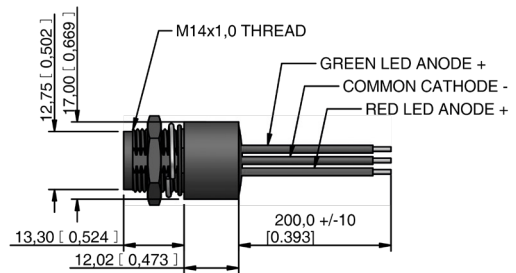
Ø8 MM REAR MOUNT - PINS TERMINALS



Ø8 MM REAR MOUNT - WIRES TERMINALS



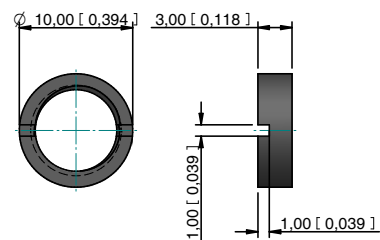
Ø14 MM REAR MOUNT - WIRES TERMINALS



HARDWARE - CYLINDRICAL DRESS NUTS - FOR Ø8 MM ONLY



P/N : AUK0001



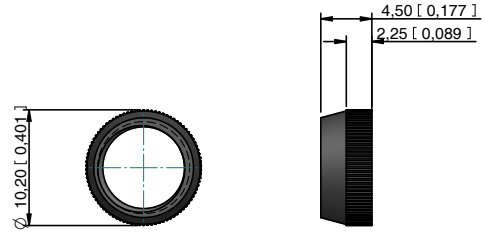
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HARDWARE - KNURLED DRESS NUTS
- FOR Ø8 MM ONLY



P/N : AUK0002



Mouser Electronics

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