

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
- Insulation resistance : 4,000 MΩ at 500 VDC
- Salt spray test: 96 hours (IEC 68-2-11)



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

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)

LED COMPONENT SPECIFICATIONS					
LED Color	NVIS Radiance	NVIS Chromaticity	Dominant Wavelength	MCD Output	Forward Voltage
NVIS Green A	$NR \leq 1.7 \times 10^{-10}$ @ 0.1fL	$r \leq .037$	530 nm	150 mcd	3.3 V
NVIS Green B	$NR \leq 1.7 \times 10^{-10}$ @ 0.1fL	$r \leq .057$	555 nm	150 mcd	3.3 V
NVIS Yellow Class A	5.0×10^{-8} NRA 1.5×10^{-7} @ 15fL	$r \leq .083$	-	150 mcd	3.3V
NVIS Yellow Class B	4.7×10^{-8} NRB 1.4×10^{-7} @ 15fL	$r \leq .083$	585 nm	150 mcd	3.3 V
NVIS Red	4.7×10^{-8} NRB 1.4×10^{-7} @ 15 fL	$r \leq .060$	605 nm	110 mcd	2.1 V
NVIS White	$NR \leq 1.0 \times 10^{-9}$ @ 0.1fL	$r \leq .40$	(x).33 (y).33	150 mcd	3.3 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.



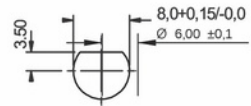
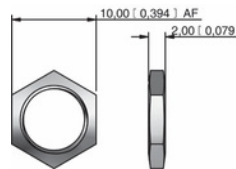
MATERIALS

- 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

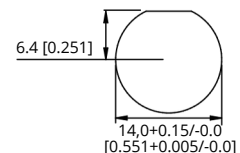
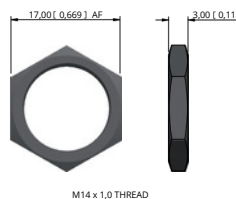


MOUNTING

Ø8 MM



Ø14 MM



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BUILD YOUR PART NUMBER

QRM-NV			
SERIES	MOUNTING HOLE	TERMINALS	BEZEL FINISH
	8 Ø8 mm 14 Ø14 mm	4 Ridgid Pins (only with Ø8 mm) 5 Wires	B Black AK Anodized Dark Olive AN Anodized Black
TYPE OF ILLUMINATION	LED COLOR	VOLTAGE	SEALING
XX Fixed Light	NV-GRA NVIS Green A NV-GRB NVIS Green B NV-YWA NVIS Yellow A NV-YWB NVIS Yellow B NV-RD NVIS Red NVIS NV-WH White	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	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



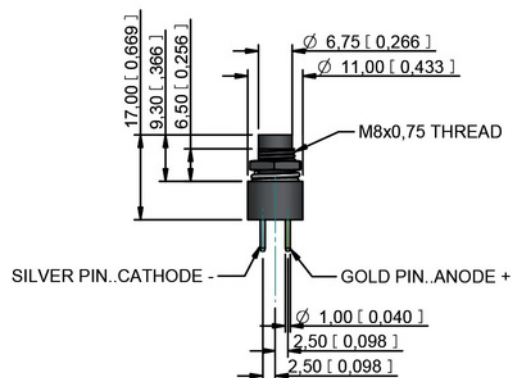
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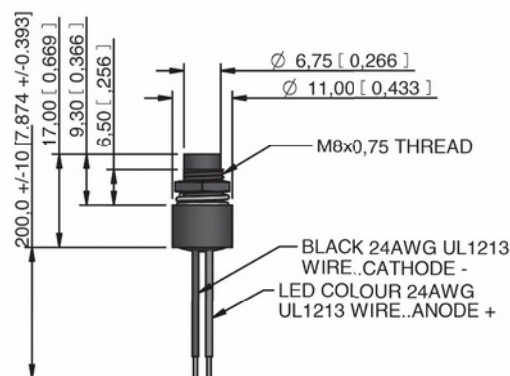
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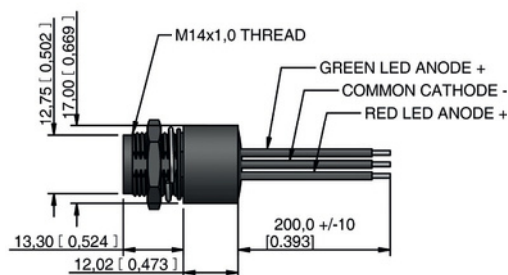
Ø8 MM REAR MOUNT - PINS TERMINALS



Ø8 MM REAR MOUNT - WIRES TERMINALS



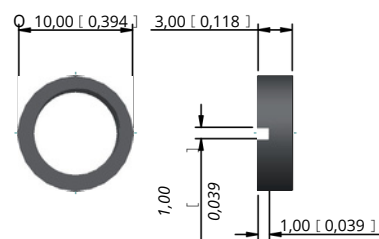
Ø14 MM REAR MOUNT - WIRES TERMINALS



HARDWARE - CYLINDRICAL DRESS NUTS - FOR Ø8 MM ONLY



P/N : AUK0001



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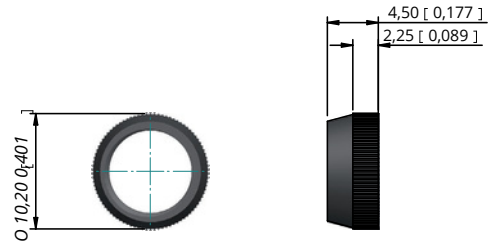
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HARDWARE - KNURLED DRESS NUTS
- FOR Ø8 MM ONLY



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