Ø8 and Ø14 mm rear panel mount • NVIS LED indicators



MAD ORMAN 2101

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 M Ω at 500 VDC
- Salt spray test: 96 hours (IEC 68-2-11)



ELECTRICAL SPECIFICATIONS

Voltage	Operating Voltage	Operating Current	
	(Min to Max)	(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 Chromoticity	Dominant Wavelength	MCD Output	Forward Voltage	
NVIS Green A	NRa ≤ 1.7eE-10 @ 0.1fL	r≤.037	530 nm	150 mcd	3.3 V	
NVIS Green B	NRA ≤ 1.7eE-10 @ 0.1fL	r≤.057	555 nm	150 mcd	3.3 V	
NVIS Yellow Class A	5.0E-8 ≤ NRA ≤ 1.5E-7 @ 15fL	r≤.083	-	150 mcd	3.3V	
NVIS Yellow Class B	4.7E-8 ≤ NRB ≤ 1.47E-7 @ 15fL	r≤0.83	585 nm	150 mcd	3.3 V	
NVIS Red	4.7E-8 ≤ NRB ≤ 1.4E-7 @15 fL	r≤.060	605 nm	110 mcd	2.1 V	
NVIS White	NRA ≤ 1.0E-9 @ 0.1fL	r≤.40	(x).33 (y).33	150 mcd	3.3 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.



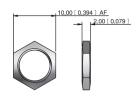
MATERIALS

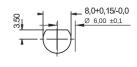
- Body: Black plated brass or anodized aluminum
- Lock Washer: Spring steel
- Nut: Black plated brass
- Terminal Seal: Epoxy
- Panel Seal: Nitrile O-ring
- Wires: Ø8 mm: 24 AWG Approved to UL1213
 Ø14 mm: 22A WG Approved to UL1007



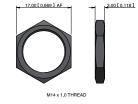
MOUNTING

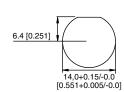
Ø8 MM







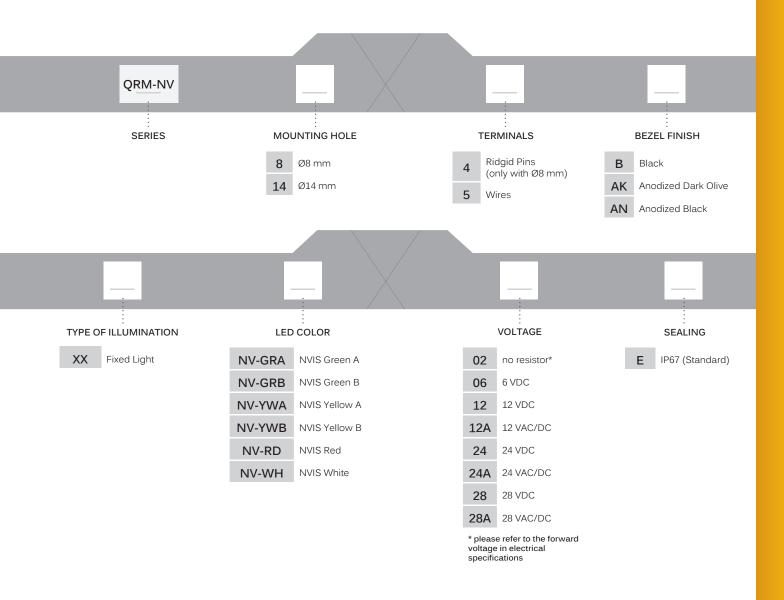




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BUILD YOUR PART NUMBER





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



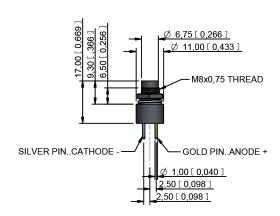
Ø14 MM REAR MOUNT - WIRES TERMINALS

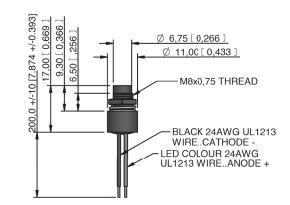


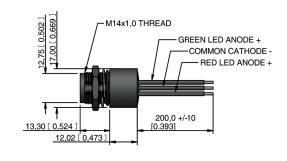
HARDWARE - CYLINDRICAL DRESS NUTS - FOR Ø8 MM ONLY

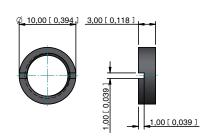


P/N: AUK0001









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HARDWARE - KNURLED DRESS NUTS - FOR Ø8 MM ONLY



P/N: AUK0002

