NR25 Series Absolute Encoder Single-Turn & Multi-Turn

Features

- DeviceNet interface
- Up to 30 bit (65536 x 16384) Resolution
- IP67 Rated Housing
- · Solid Shaft, Hub Shaft, and Stainless Units avail.
- Programmable resolution, count direction, total measure range, velocity format, & position preset



Capabilities

Provide an overall measuring range of 16 bits (single-turn resolution) plus 14 bits (number of revolutions), or 30 bits total*

Designed in accordance with ODVA guidelines, the AMCI DeviceNet encoders are 100% compatible with PLCs that support DeviceNet

Visit www.amci.com to learn about these capabilities, and more.

*Specifications on back





Product Specifications

NR25 Mechanical Specifications:

Shaft Loading:

Solid Shaft:

1/4", 3/8", 5/8", 6mm, and 10mm Shafts: 40 lbs. radial/20 lbs. axial maximum shaft loading. Bearing life rated at 2x10° revolutions minimum at

maximum shaft load

5/8" Shaft:

100 lbs. radial/50 lbs. axial maximum shaft loading. Bearing life rated at 2x10⁹ revolutions minimum at maximum shaft load

Hub Shaft:

40 lbs. radial/20 lbs. axial maximum shaft loading. Bearing life rated at $2x10^9$ revolutions minimum at maximum shaft load

Package Style: 2.5" diameter housing available with flange, servo, or hub shaft mounting

Housing: Powder coated aluminum or stainless steel

Moment of Inertia: (3/8" Shaft)

6.00 x 10⁻⁴ oz-in-sec²

Shaft sizes:

Solid Shaft Diameter:

1/4" (single-turn only), 3/8", 5/8", 6mm, or 10mm diameter stainless steel

Hub Shaft Inner Diameter:

1/2" standard inner diameter stainless steel 3/8", 10mm, 12mm, and 14mm bore reducers

NR25 Electrical Specifications:

Output Code: DeviceNet

Resolution:

Single-turn = 65536 counts max

Multi-turn = (2 versions)

65536 counts/turn & 4096 turns maximum 65536 counts/turn & 16384 turns maximum

Direction of Increasing Counts:

Programmable over the network default = CW increasing looking at the shaft

Programmable Parameters:

Direction of increasing counts, counts per turn, velocity units, preset function, total measurement range

Power Requirements:

11 to 25Vdc | 1.5W maximum | 50mA @ 24Vdc

NR25 Environmental Specifications:

Enclosure: IP67 Rated

Shock: 50G's for 11mSec

Vibration: 20 q, 5 to 2000 Hz

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