

▶ EtherNet/IP Absolute Encoder

NR25 Series Absolute Encoders Single-Turn & Multi-Turn

Features

- Up to 30 bit (65536 x 16384) Resolution
- Power over Ethernet (PoE)
- IP67 Rated Housing
- Solid Shaft and Hub Shaft available
- Stainless Steel Units Available

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 EtherNet/IP encoders are 100% compatible with PLCs that support EtherNet/IP

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

*Specifications on back



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Product Specifications

NR25 Mechanical Specifications:

Shaft Loading:

Solid Shaft:

1/4, 3/8, and 10mm Shafts:

40 lbs. radial/20 lbs. axial maximum shaft loading.
Bearing life rated at 2×10^9 revolutions minimum at maximum shaft load

5/8" Shaft:

100 lbs. radial/50 lbs. axial maximum shaft loading. Bearing life rated at 2×10^9 revolutions minimum at maximum shaft load

Hub Shaft:

40 lbs. radial/20 lbs. axial maximum shaft loading.
Bearing life rated at 2×10^9 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)
 6.00×10^{-4} oz-in-sec²

Housing: 304 stainless steel

Shaft sizes:

Solid Shaft Diameter:

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

Hub Shaft Inner Diameter:

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

NR25 Electrical Specifications:

Output Code: EtherNet/IP

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

Power Requirements (including PoE):

12 to 54Vdc | 2.5W maximum | 100mA @ 24Vdc

NR25 Environmental Specifications:

Enclosure: IP67 Rated (valid only with working shaft seal & mating connector fitted)

Shock: 50G's for 11mSec

Vibration: 20 g, 5 to 2000 Hz

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