SERIES AI25 DeviceNet HENGSTLER

Absolute Encoder

Key Features

- Up to 14 Bit of Singleturn and 12 Bits of **True Multiturn Absolute Positioning**
- **Onboard Diagnostics**
- **DeviceNet Interface**
- **Available with Multiple Shaft Configurations**
- Enclosure ratings of IP64 or IP67









SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS:

Code: Absolute. Optical Resolution Single-turn: 10-14 Bit Resolution Multi-turn: 12 Bit

Linearity: ± 1/2 LSB

Absolute Accuracy: ± 0.01° mechanical (36 arc-sec.) Repeatability: ± 0.002° mechanical (7.2 arc-sec.)

ELECTRICAL:

Protocol: According to DeviceNet V2.0 Interface: CAN Highspeed according to

ISO/DIS 11898, CAN Specification 2.0 B (11 and 29

bit identifier) Output Code: Binary Input Power: 10-30 VDC

Intrinsic Current Consumption: 220 mA (ST), 250

mA (MT) Transfer Mode: Poll mode

Bit strobe (time-synchronous for all devices) Change of State (automatic after change of values)

Cyclic, with adjustable cycle timer

Frequency Response (Baud Rate): 125, 250,

500 kBaud

Noise Immunity: Tested to EN 61326-1 Electrical Immunity: Tested to EN 61326-1 **Termination:** Bus Cover with spring terminal clamps

MECHANICAL:

Shaft Diameter: 6 mm (Servo Mount), 10 mm (Clamping Mount), 3/8" (Square Flange Mount),

Hubshaft: 10mm, 12 mm, 3/8", 1/2"

Shaft Load (axial/radial): 40N (9lb.) / 60N (13lb.) Shaft Tolerance (hubshaft only): +/- 1.5 mm axial,

+/- 0.2 mm radial

Maximum Shaft Speed: 10,000 RPM (continuous),

12,000 RPM (peak)

Starting Torque: < 1.4 in-oz

Weight (approx.): 350 g ST, 400 g MT

Housing Material: Aluminum Shaft Material: Stainless Steel

Disc Material: Glass

Weight:

Single-Turn: approx. 12.3 oz (350 g) Multi-Turn: approx. 14.1 oz. (400 g)

ENVIRONMENTAL:

Operating Temperature: -40 °C ...+85 °C Storage Temperature: -40 °C ...+100 °C

Shock: 1,000 m/s² for 6 msec **Vibration:** 100 m/s² (10 to 2,000 Hz)

Humidity: Up to 75%, (no condensation allowed)

Enclosure Rating: IP64 or IP67



WWW.DYNAPAR.COM

Headquarters: 1675 Delany Road • Gurnee, IL 60031-1282 • USA

INNOVATION - CUSTOMIZATION - DELIVERY

Technical Support Tel.: +1.800.234.8731 Fax: +1.847.662.4150

dynapar.techsupport@dynapar.com

European Sales Representitive

Hengstler GmbH

Uhlandstrasse 49, 78554 Aldingen Germany

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Tel.: +1.800.873.8731

HENGSTLER

SERIES AI25

Ordering Information

To order, complete the model number with code numbers from the table below:

Code 1: Model	Code 2: Resolution	Code 3 :Mounting	Code 4: Shaft Size	Code 5: Interface	Code 6: Output	Code 7: Termination
Al25						
Al25 Size25 Absolute Encoder	0010 10 Bit ST 0012 12 Bit ST 0013 13 Bit ST 0014 14 Bit ST 1212 12 Bit MT 12 Bit ST 1213 12 Bit MT 13 Bit ST 1214 12 Bit MT 14 Bit ST	Available when Code 4 is 0 or A 0 Servo* Available when Code 4 is 1, 2 or B, C 1 Clamping* 2 Square Flange** Available when Code 4 is 3, 4, 5 or 6 3 Hubshaft w/ Tether† * 58mm Dia. ** 2.5" Square † 63mm BC	w/o shaft seal (IP64) 0 6 mm 1 3/8" 2 10 mm 3 3/8" Hubshaft 4 12 mm Hubshaft 5 1/2" Hubshaft 6 10mm Hubshaft w/ shaft seal (IP67) A 6 mm B 3/8" C 10 mm	9 Devicenet	2 10-30 VDC	F Bus Cover 1 M12, 5-Pole Connector G Bus Cover 2 Strain Relief Exits and 1 M12, 5-Pole Connector (for Tico display). Internal T-coupler included L Bus Cover 2 Strain Relief Exits. Internal T-coupler included

ACCESSORY

Part Number: 3 280 220 + length: TPE cable, 12-core + screen Price: CF

DIMENSIONS

