

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: $\pm 1/2$ LSB
Absolute Accuracy: $\pm 0.01^\circ$ mechanical (36 arc-sec.)
Repeatability: $\pm 0.002^\circ$ 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: $-40^\circ\text{C} \dots +85^\circ\text{C}$
Storage Temperature: $-40^\circ\text{C} \dots +100^\circ\text{C}$
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

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Ordering Information

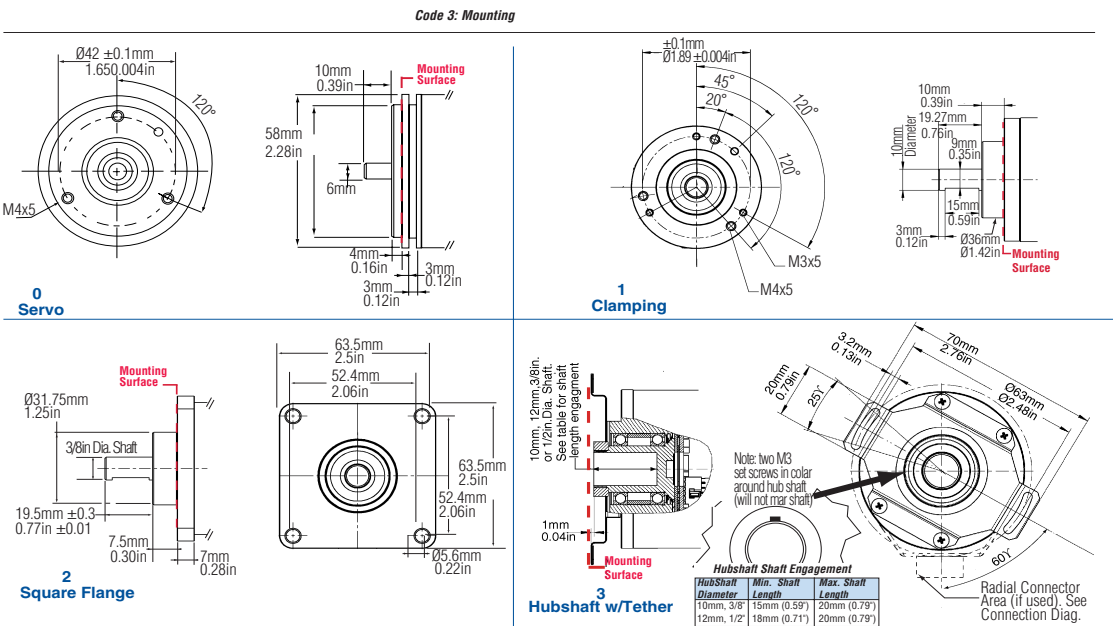
To order, complete the model number with code numbers from the table below:

Code 1: Model	Code 2: Resolution	Code 3 :Mounting	Code 4: Shaft Size	Code 5: Interface	Code 6: Output	Code 7: Termination
AI25	☐ ☐ ☐ ☐	☐	☐	☐	☐	☐
AI25 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



Code 7: Connector

