INDUSTRIAL DUTY

SERIES AI25 CAN Open



Absolute Encoder

Key Features

- Up to 14 Bit of Singleturn and 12 Bits of True Multiturn Absolute Positioning
- Onboard Diagnostics
- CAN Open Interface





TANDARD OPERATING CHARACTERISTICS	MECHANICAL	ENVIRONMENTAL
Single-turn Resolution: 10, 12, 13, 14 Bit Aulti-turn Resolution: 12 bit .inearity: +/- 1/2 LSB Absolute Accuracy: ± 0.01° mechanical (36 arc- .ec.) Repeatability: ± 0.002° mechanical (7.2 arc- .ec.) Code format: Binary Electrical Connection: Bus Cover with spring terminal elamps; 12 pin Conin CW; Cable with Pigtail Supply voltage: 10-30 VDC ntrinsic current consumption: 200 mA (ST), .20 mA (MT) Saud Rate: 125, 250, 500 kBaud nterface: CAN High-Speed according to ISO/ DIS 11898. Protocol: CANopen according to DS 301 with orofile DSP 406, programmable encoder according to C2 ransfer mode: Oll mode Bit strobe (time-synchronous for all devices)	Shaft diameter: Shaft is 6 mm (Servo Mount), 10 mm (Clamping Mount), 3/8" (Square Flange Mount) Hubshaft: 10mm, 12 mm, 3/8", 1/2" Maximum shaft load: 6 mm shaft: 13 lb axial, 24 lb radial 10 mm shaft: 24 lb axial, 35 lb radial Maximum shaft speed: 10,000 RPM (continuous), 12,000 RPM (peak) Starting torque: < 1.4 in-oz	Operating Temperature: -40 to 85° C Storage Temperature: -40 to 100° C Enclosure Rating: IP64 or IP67 Shock: 1,000 m/s ² (6 ms) Vibration: 100 m/s ² (10 to 2,000 Hz)



Satellite Locations:

- North America: North Carolina, South Carolina, Connecticut, Massachusetts, New York, Canada, British Virgin Islands
- West Indies: St. Kitts Europe: United Kingdom, Italy, France, Germany, Spain, Slovakia
- South America: Brazil Asia: China, Japan, Korea, Singapore

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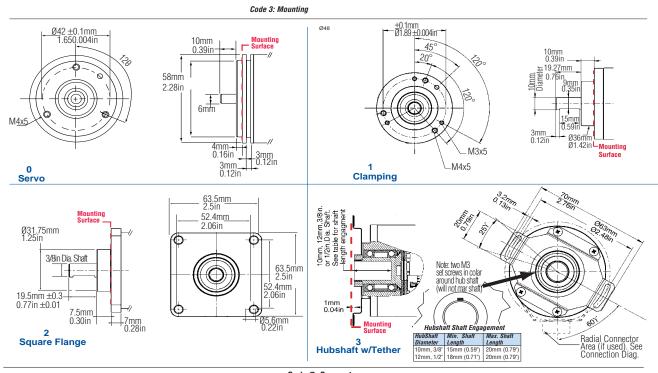
SERIES AI25

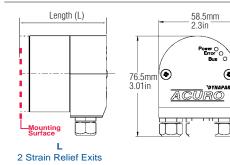
Ordering Information

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

Code 1: Model	Code 2: Bits	Code 3 :Mounting	Code 4: Shaft Size	Code 5: Protocol	Code 6: Electrical	Code 7: Connector
AI25						
Al25 Size25 Acuro Absolute Encoder	Single-Turn 0010 10 Bit 0012 12 Bit 0013 13 Bit 0014 14 Bit Multi-Turn 1212 1212 12 Bit Multi- Turn, 12 Bit Single-Turn 1213 12 Bit Multi- Turn, 13 Bit Single-Turn 1214 12 Bit Multi- Turn, 14 Bit Single-Turn	Available when Code 4 is 0 or A 0 Servo* Available when Code 4 is 2 or C 1 Clamping* Available when Code 4 is 1 or B 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" Hub Shaft 4 12 mm Hubshaft 5 1/2" Hubshaft 6 10 mm Hub Shaft 6 10 mm Hub Shaft w/ shaft seal (IP67) A 6 mm B 3/8" C 10 mm 	8 CANopen	2 10-30 VDC	 0 1.5m Axial Cable 1 1.5m Radial Cable 2 M23 Conin 12 pin Axial CW 3 M23 Conin 12 pin Radial CW F Bus Cover 1 M12, 5-Pole Connector L Bus Cover 2 Strain Relief Exits. Internal T-coupler included

DIMENSIONS





Code 7: Connector

Length (L) Mounting Surface to Rear For connector types L, and F

Mount (Code 3)	Single-Turn	Multi-Turn
(0) Servo	63.3/2.49	72.3/2.85
(1) Clamping	62.3/2.45	71.3/2.81
(2) Square Fing	64.8/2.55	73.8/2.91
(3) Hubshaft	72.2/2.84	81.2/3.2

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