### **INDUSTRIAL DUTY**

# **SERIES AI25** Interbus

# HENGSTLER

## **Absolute Encoder**

### **Key Features**

- Up to 12 Bit of Singleturn and 12 Bits of **True Multiturn Absolute Positioning**
- **Onboard Diagnostics** ٠
- **Interbus Interface**
- Available with multiple shaft configurations
- Enclosure ratings of IP64 or IP67





TANDARD OPERATING CHARACTERISTICS:	MECHANICAL:	ENVIRONMENTAL:
tesolution Single-turn: 10 and 12 Bit tesolution Multi-turn: 12 bit (only available with 2 bit ST resolution) inearity: +/- 1/2 LSB bsolute Accuracy: ± 0.01° mechanical (36 arc-sec.) tepeatability: ± 0.002° mechanical (7.2 arc-sec.) terface: Interbus, ENCOM Profile K3 parameterizable) hutput Code: 32 Bit Binary mput Power: 10-30 VDC htrinsic Current Consumption: 220 mA (ST), 50 mA (MT) rogrammable: Direction, scaling factor, preset, ffset	Shaft Size: 6 mm (Servo Mount), 10 mm (Clamping Mount), 3/8" (Square Flange Mount) Hubshaft Size: 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 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)	Operating Temperature: -40 °C+70 °C Storage Temperature: -40 °C+100 °C Shock: 100G, 1,000 m/s <sup>2</sup> for 6 msec Vibration: 10G, 100 m/s <sup>2</sup> (10 to 2,000 Hz) Humidity: Up to 75%, (no condensation allowed) Enclosure Rating: IP64 or IP67
requency Response (Baud Rate): 500 kBaud ccording to ENCOM		
loise Immunity: Tested to EN 61326-1		
lectrical Immunity: Tested to EN 61326-1		
ermination: Bus Cover with spring terminal		
lamps; cable with connector		



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# **HENGSTLER** SERIES AI25 Interbus

#### **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						
AI25 Size25 Acuro Absolute Encoder	Single-Turn 0010 10 Bit 0012 12 Bit Multi-Turn 1212 12 Bit MT, 12 Bit ST	Available when Code 4 is 0 or A <b>0</b> Servo* Available when Code 4 is 1, 2 or B, C <b>1</b> Clamping* <b>2</b> Square Flange** Available when Code 4 is 3, 4, 5 or 6 <b>3</b> 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         10 mm Hubshaft           7         Hubshaft           8         3/8"           W/shaft seal (IP67)           A         6 mm           B         3/8"           C         10 mm	<ul><li>5 Interbus K3</li><li>U Interbus K2</li></ul>	2 10-30 VDC	<ul> <li>E Bus Cover 3 Strain Relief Exits. Internal T-coupler included</li> <li>G Bus Cover 2 Strain Relief Exits and 1 M12, 5-Pole Connector (for Tico display). Internal T-coupler included</li> <li>H Double Conin. Internal T-coupler included</li> </ul>

### DIMENSIONS

