SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MA礼L:宏宏20163. ED-18 Analog Output Series Magnetic Encoder

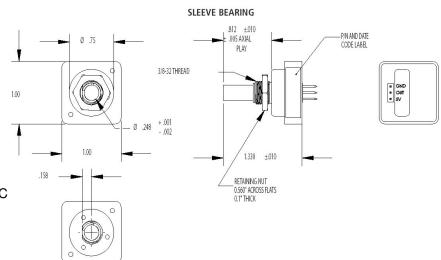
The ED-18 Series Magnetic Encoder

can be used as either a rotational feedback sensor or as a human machine interface (HMI) device. As a light duty feedback sensor it can provide rotation speed, direction or positioning information. The analog output provides absolute angular position information even when power is cycled on and off. As an HMI device it can be used as a rotary input control for use on instrumentation panels. The ED-18 Series is designed with our modular and flexible construction methods. We can customize housings, shafts and terminations to meet your exact specifications with little or no tooling costs.

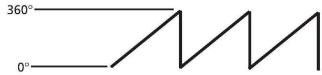


measurement

dimensions



sample quadrature output



FEATURES

- Magnetic Sensing Technology •
- **Encapsulated Electronics/Sealed Unit** •
- Harsh Environment Compatibility •
- Analog Voltage and Current Outputs •
- Low Profile •
- **Consistent Rotational Torque** •
- Resistant to Contamination •
- **IP52** Sealing •
- Metallic Threaded Bushing Mounting •
- Wide Operational Temperature Range (-40 °C • to 85℃)
- Custom housings, shafts, connectors • available in most cases with no additional tooling required
- Sleeve Bearing •
- Excellent Stability no optic degradation •

APPLICATIONS

- Marine, Avionics, Motor Speed and Position Control
- Marine steering and throttle position • control/feedback
- Monitor pump speed and direction •
- Camera position and control •
- XY Stage Positioning •
- Radio controls •
- Medical Diagnostic Equipment •
- Video and Sound Editing Equipment •
- Valve position .
- Syringe Pump .
- Potentiometer Replacement

ED-18 Rev 1

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Measurement Specialties reserves the right to update and change these specifications without notice.

PERFORMANCE SPECIFICATIONS

Standard Outputs ranges over 360° **Operating Temperature**

Maximum Speed **Bearing Life** Bearings Run Out **Bushing Mounting Torque**

ELECTRICAL

Current Draw Operating Voltage (VDC) .5-4.5Vdc, 4-20mA, 0-5Vdc, 0-12Vdc, 0-20mA -40 °C to +85 °C (Extended temperature range available, contact factory for details) 300 RPM 3,000,000 cycles Sleeve .010" max @ .75 from mounting surface 10 in-lb max

measuremen

15 mA (+ output for current loop) 5Vdc +/-.25 for .5-4.5Vdc & 0-5Vdc, 12.5-26 Vdc for current 15-26 Vdc for 0-12 Vdc

Note: All specifications are specified with Vdd @ Nominal input voltage, and Ambient Temperature 25 Degrees Celsius. For current output max loop resistance 7000 @ 24Vdc

MECHANICAL Axial Load (lbs)

Radial Load (lbs) Operating Speed (rpm)

Shaft End Play (in) Shaft Radial Play (in) Shaft Push-in Force (lbs) Shaft Pull-out Force (lbs)

ENVIRONMENTAL

Vibration

Shock

Humidity

Thermal Shock

Operating Temperature Storage Temperature

4.5 [20 N] Max. 2.25 [10 N] Max. 300 = Sleeve 3000 = Ball .005 [.10] Max. .010 [.25] Max. @ .6 [15.2] from mounting surface 40 [9N] 6 [1.3N]

MIL-STD-202F Method 204D Test Condition B MIL-STD-202F Method 213B Test Condition C MIL-STD-202F Method 103B Test Condition A MIL-STD-202F Method 107G Test Condition A -40 to +85℃ -55 to 125℃

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