The Electroswitch 500 Series Magnetic Encoders are built upon a contact free integrated circuit design. This encoder integrates Hall Effect sensing and digital signal processing to provide high-resolution angular measurement solutions.

ELECTROSWITCH

•ELECTRONIC PRODUCTS UNIT OF ELECTRO SWITCH CORE

An important advantage of the 500 Series is the dramatic reduction in package size to 1/2 inch, while still incorporating the performance and output options required to support the widest range of industrial and motion sensing applications.

The 500 Series design leverages its reduced part count and simplified construction to provide extremely robust. high shock and vibration resistant performance, excelling in harsh and dirty environments.

FEATURES

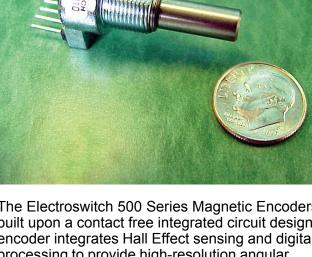
- \triangleright Compact, Robust, 1/2" package
- High Resolution Encoding up to 1024 PPR \geq
- Widest Temperature Range
- Absolute and Incremental Outputs
- Zero Reference Positioning
- \triangleright Tachometer with Direction Sensing
- Quadrature Code Output
- RoHS Compliant
- **Contact Free Magnetic Design** \triangleright
- 3.3 or 5.0 VDC Options

BENEFITS

- \succ Compact Size
- \triangleright **Multiple Output Codes Allowing Simpler** Integration With a Wider Variety of **Receiving Devices**
- \geq **Best Encoder Reliability**
 - Longest Life
 - Excellent Performance in Harsh **Environments**
- Low Power Consumption

AUDIO/ENTERTAINMENT APPLICATIONS Frequency Select for Professional and High End Audio Applications Mixing Consoles High End Amplifiers Lighting Controls (intensity select) MOTOR CONTROL DEVICES Control of motor circuits is accomplished by **AVIONICS** linking encoder to motor shaft Altitude Positioning Material Handling Equipment • Missile Firing and Guidance In-flight Refueling Machine Tools Auto Pilot Controls Conveyor Belts Printing Equipment MEDICAL Elevators Infusion Pump Flow **Factory Automation Dispensing Equipment** Automated Vial Sampling Equipment FLOW CONTROL DEVICES **Dialysis Machines** Fluid flow can be metered by the encoder Ventilators attached to displacement turbine and other styles of meters and pumps INDUSTRIAL POSITION SENSING AND POSITION CONTROL Manufacturing Process Controls • Off Road / Construction Valve and Flow controls Equipment Lift Trucks Fuel Pumps • Welding Machines WWW.ELECTRO-NC.COM

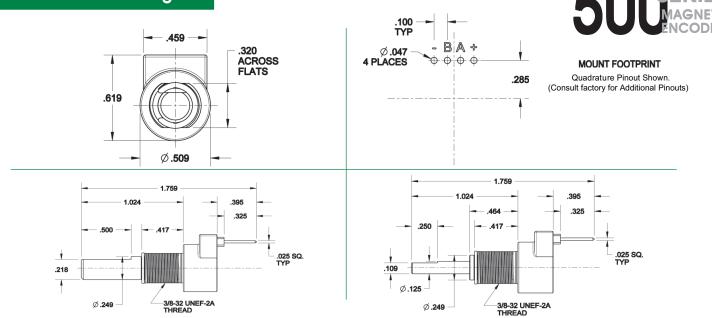
2010 Yonkers Road Raleigh, NC 27604 • tel: 1.888.768.2797 or 919.833.0707 fax: 800.909.9171 or 919.833.8016 · sales@electro-nc.com







Mechanical Drawings



Specifications

Electrical Specifications		Mechanical Specifications			
Operating Voltage4.7 to 5.7 VDC or 3.3 to 3.8 VDCSupply Current[30 mA Max]Logic outputVCC High; 0.4 LowPower Consumption165mW max.		<u>Mechanical Vibration</u> Harmonic motion with amplitude of 15g, varied from 10 to 2000 Hz for 12 hours, per MIL STD 202G Method 204D Condition B or Highe			
Codes: Quadrature Tachometer Absolute Quadrature	32, 64, 128 or 256 PPR 64, 128, 256, 512 PPR (w/ dire 10 bit PWM (1024 PPR) * 32, 64, 128 or 256 PPR w/ Z c	,	Operational speed:	wave with velocity of 213B Condition C of 10M w/ sleeve bea 200 rpm max w/ sle 0.5 oz.	or Higher ring
Frequency [fixed Environmental 9 Operation Tempo	Specifications erature -40C to +105C		Shaft: Sta Terminal: Tin	c Die Cast Alloy inless Steel Plated	
Storage Tempera Humidity	MIL STD 202G Meth 103B Condition A or		NOTE: Mounting Hardw Standard Sealing: Limi		er Ingress Protection
	MIL STD 202G Meth 103B Condition A or		Ŭ		er Ingress Protection
Humidity	MIL STD 202G Meth 103B Condition A or		Standard Sealing: Limi		er Ingress Protection Termination: 0= Straight Pins
Humidity Prclering Inf 50	MIL STD 202G Meth 103B Condition A or Ormation 	Resolution / PPR: Quadrature: 0032, (0128, 0256 Tachometer 0064, (Standard Sealing: Limi	ted Dust and Wate	Termination:

505Q-0256-S010 = 500 Series Encoder, 5 volt, Quadrature, 256, no additional sealing, ¼" diam. shaft, w/ straight pins *Additional Options: Contact Electroswitch for Lead-times and Minimum Order Requirements Customization can include: Modified Shaft Lengths and Flats - Cabling Options

Technical Data August 2007 - All Information subject to change without notice

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