



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.

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

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

BENEFITS

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

APPLICATIONS

MOTOR CONTROL DEVICES

Control of motor circuits is accomplished by linking encoder to motor shaft

- Material Handling Equipment
- Machine Tools
- Conveyor Belts
- Printing Equipment
- Elevators
- Factory Automation

FLOW CONTROL DEVICES

Fluid flow can be metered by the encoder attached to displacement turbine and other styles of meters and pumps

- Manufacturing Process Controls
- Valve and Flow controls
- Fuel Pumps

AUDIO/ENTERTAINMENT

Frequency Select for Professional and High End Audio Applications

- Mixing Consoles
- High End Amplifiers
- Lighting Controls (intensity select)

AVIONICS

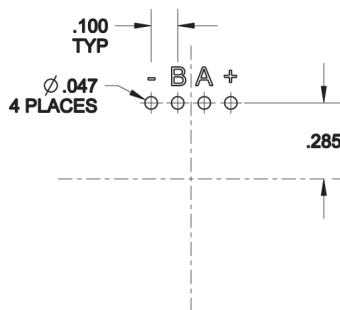
- Altitude Positioning
- Missile Firing and Guidance
- In-flight Refueling
- Auto Pilot Controls

MEDICAL

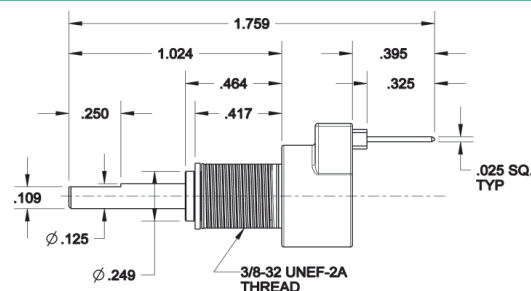
- Infusion Pump Flow
- Dispensing Equipment
- Automated Vial Sampling Equipment
- Dialysis Machines
- Ventilators

INDUSTRIAL POSITION SENSING AND POSITION CONTROL

- Off Road / Construction Equipment
- Lift Trucks
- Welding Machines



Technical drawing of a 3/8-32 UNEF-2A threaded plug. The drawing shows the side profile of the plug with various dimensions in inches. The overall length is 1.759. The distance from the left face to the start of the thread is 1.024. The distance from the left face to the end of the thread is .500. The distance from the start of the thread to the end of the thread is .417. The distance from the end of the thread to the right face is .395. The distance from the end of the thread to the right face, excluding the thread, is .325. The distance from the end of the thread to the right face, including the thread, is .025 SQ. TYP. The diameter of the plug is $\varnothing .249$. The thread is labeled 3/8-32 UNEF-2A THREAD.



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