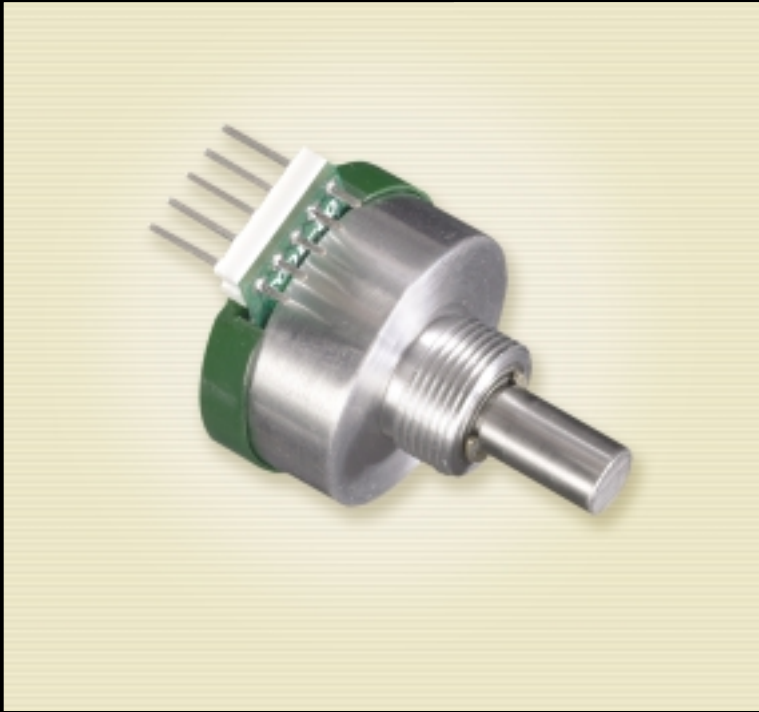




encoder devices
KEEPMOVING

ED-12 SERIES MAGNETIC ENCODER



Accuracy, small size, and value are key features of the ED-12 Series encoder family. It is designed for use as a feedback sensor in light to medium duty industrial and commercial equipment motion control applications.

With a speed rating of 3,000 RPM, service life of 100,000,000 cycles and availability of serial and quadrature outputs, this compact shaft encoder packs value into your machine design.

APPLICATIONS

Industrial

- Overhead crane positioning
- Robotics

Exercise Equipment

- Treadmill speed
- Therapy equipment position feedback

Agriculture

- Transmission speed sensors
- Implement/attachment positioning

Factory Automation

- X-Y table positioning
- Liquid dispensing controls

Medical

- Radiology and imaging equipment source control
- Scanning table positioning

Kiosk/ATM machines

- Card dispensing mechanisms
- Counting mechanisms

Construction

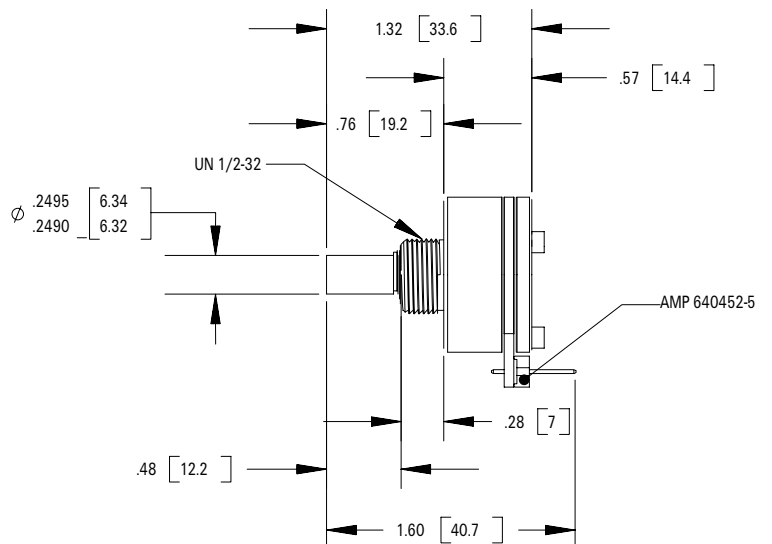
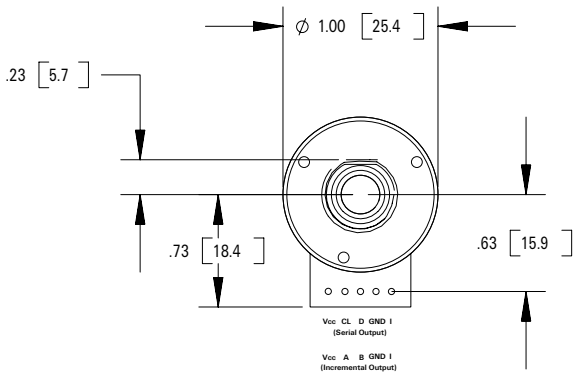
- Bucket positioning
- Gear train sensors

HMI (Human Machine Interface)

- Joystick control
- Pedal feedback
- Steering Wheel Sensor

FEATURES

- 128 PPR Quadrature Output Version
- 512 absolute counts/Rev. Synchronous Serial Interface (SSI) Version
- Resistance to contaminants
- Threaded bushing mounting
- IP63 Sealing
- Ball or Composite Bearing
- Wide Operational Temperature Range (-40 °C to +125 °C)
- 3,000 RPM Operational Speed
- 100,000,000 cycle life
- Custom housings, shafts, connectors available in most cases with no additional tooling required.



MEDIUM DUTY



ED-12 SERIES MAGNETIC ENCODER

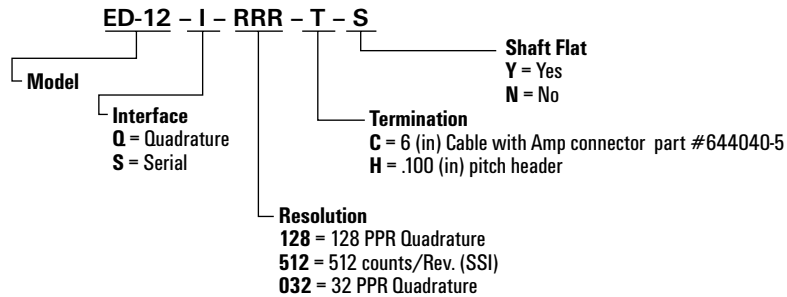
SPECIFICATIONS *See data sheet for full specification*

Standard Resolutions:	128 PPR Quadrature	Operating Temperature:	-25°C to +100°C (ED-21-128)
	9 bit (512 counts/Rev.)		-40°C to +125°C (ED-21-512)
	Syncro-Serial Interface (SSI)	Storage Temperature:.....	-40°C to +125°C
Vibration:	per MIL-STD-202F Method 204D	Maximum Speed:	3,000 RPM (ball bearing)
	Test Condition B	Bearing Life:.....	100,000,000 cycles (ball bearing)
Shock:.....	per MIL-STD-202F Method 213B	Radial Play:010 max @ .75 from mounting surface
	Test Condition C	Shaft End Play:005 max
Humidity:	per MIL-STD-202F Method 103B	Maximum Current Draw:	20 mA
	Test Condition A	Operating Voltage:	5 VDC
Thermal Shock:	per MIL-STD-202F Method 107G	Shaft Push in Force:	50 lb max
	Test Condition A	Shaft Pull Out Force:.....	25 lb max
		Bushing Mounting Torque:.....	10 in-lb max

ORDERING INFORMATION

Customization Table

Select from the following variables to order an encoder device customized to fit your needs.



All features of this product can be customized to meet the needs of your OEM applications, subject to minimum order requirements. Our flexible construction methods allow us to provide a fast turnaround time on customized orders at little or no extra cost to you.

Encoder Devices also integrates sensors into OEM subassemblies. Contact us for a quote.

23900 W. Industrial Dr. South
Suite One, Plainfield, IL 60544



815-254-0364
www.encoderdevices.com