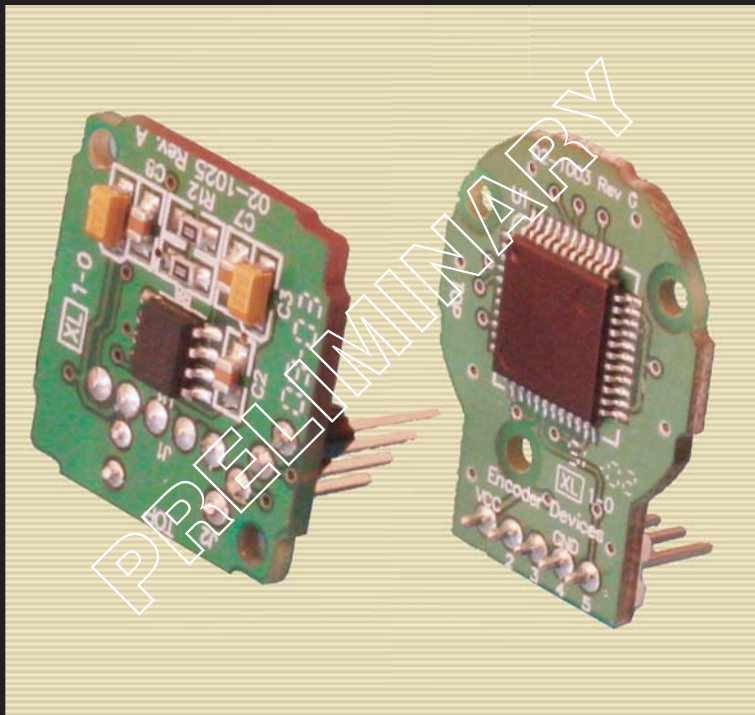


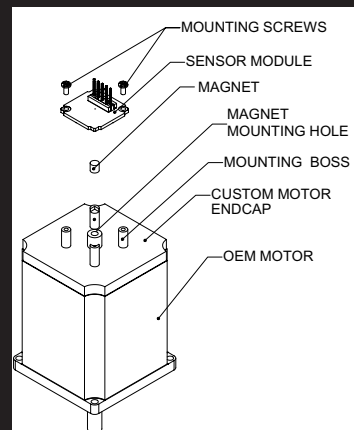
ED-15 SERIES MAGNETIC ENCODER



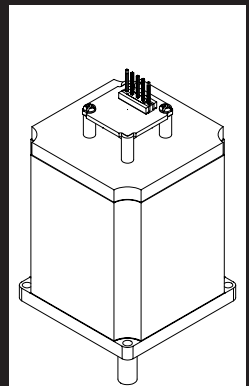
The ED-15 Series Magnetic Encoder provides a low cost robust alternative to traditional integrated encoders. The installation of the ED-15 Series does not require shimming or any other mechanical adjustments. The supplied magnet is installed into the end of the motor shaft and the encoder is simply bolted to the face of the motor. This ASIC based magnetic system is resistant to contaminants and has a wide temperature range from -40°C to $+125^{\circ}\text{C}$. Standard resolutions range from 1 to 4096 (CPR), custom resolutions are available for OEM applications. Completely custom OEM versions of this product are available to accommodate different mounting details, additional circuitry, and electrical termination requirements.

FEATURES

- Low Cost
- Easy Integration
- Resolutions up to 4096 CPR
- Custom Resolutions Available
- Wide Operational Temperature Range (-40°C to 125°C)
- Custom Electrical Terminations

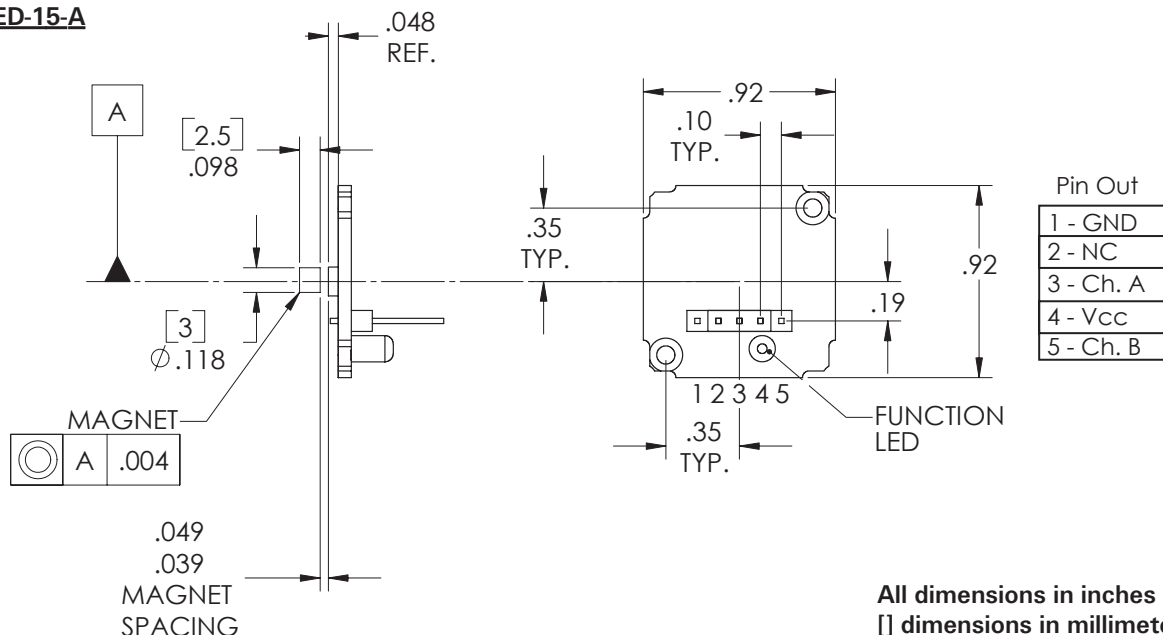


**Typical
Installation**

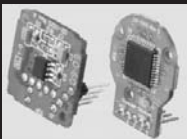


**Complete
Assembly**

Version: ED-15-A



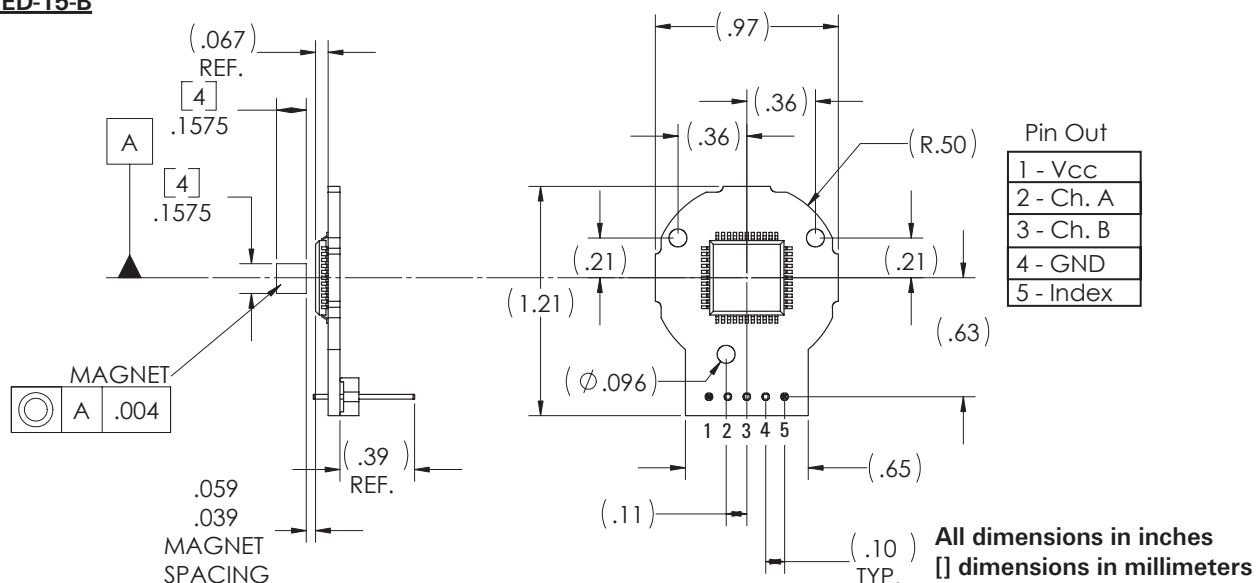
All dimensions in inches
[] dimensions in millimeters



ED-15 SERIES MAGNETIC ENCODER

PRELIMINARY

Version: ED-15-B



SPECIFICATIONS See data sheet for full specification

Standard Resolution: See Ordering Code

Vibration: per MIL-STD-202F Method 204D
Test Condition B

Shock: per MIL-STD-202F Method 213B
Test Condition C

Humidity: per MIL-STD-202F Method 103B
Test Condition A

Thermal Shock: per MIL-STD-202F Method 107G
Test Condition A

Operating Temperature: 0°C to +70°C
-40°C to +85°C
-40°C to +125°C

Storage Temperature: -55°C to +125°C

Max Speed: ED-15-A --- 3000 RPM
ED-15-B --- 6000 RPM

Repeatability: ED-15-A --- TBD
ED-15-B --- < 1°

Accuracy: ED-15-A --- TBD
ED-15-B --- < 1°

Maximum Current Draw: 24 mA

Operating Voltage: 5 VDC

ORDERING INFORMATION

ED-15 - S - RRRR - T

Model

Style
A = PCB Style A
B = PCB Style B**
** Only available with
512 CPR resolution

Resolution (Counts Per Revolution)*

RRRR =

4096	1600	500	128	48	12
4000	1024	320	100	40	8
3200	1000	256	96	32	4
2048	640	200	80	24	
2000	512	160	64	16	

Temperature Range
1 = 0 °C to +70 °C (standard)
2 = -40 °C to +85 °C
3 = -40 °C to +125 °C

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

R1 04-30-03