EPC has the right absolute encoder for your application

When you need absolute feedback for your application, Encoder Products Company has the solution. With our varied selection of absolute encoders, we can solve almost any application challenge.

- **Space constraints.** No problem. EPC’s encoders come in a variety of sizes to fit your needs, from a compact 36 mm, to a standard Size 25 (2.5”), to 58 mm.
- **Rugged environment.** Offering a variety of sealing options up to IP67, rugged housings, and temp options from -40° C up to 120° C, EPC’s encoders will work in your toughest environments.
- **Need ethernet connectivity.** EPC’s series of Model A58E encoders are EtherCAT-ready to meet your connectivity needs.

EPC’s encoders with CANopen or SSI communication are available in a variety of sizes and configurations to meet your applications’ needs. These encoders meets CE/EMC standards for immunity and emissions, and are especially suited for applications where position information must be retained after loss of system power. With size options from a compact 36 mm to a robust 58 mm, and available in shaft or hollow bore (blind), EPC has the encoder that will work for you. These industrial absolute encoders offer:

- Up to 16 bit resolution for single turn
- Up to 43 bit resolution for multi-turn
- No gears or batteries
- Energy harvesting magnetic multi-turn technology
- Maintenance-free and environmentally-friendly magnetic design

Model A36SB and A36HB – compact standard Size 36 mm

The Model A36SB (shaft) and Model A36HB (hollow bore, or “blind”) rugged magnetic technology and high IP rating make the Model A36SB an excellent choice, even in tough industrial environments. Available in a variety of configurations, the Model A36SB or Model A36HB are easily designed into a variety of applications.

- **Size Options:**
  - Standard Size 36 mm (1.42”)
  - Bore/Shaft sizes in 6 mm or 1/4”
  - Variety of connector types available
  - Model A36SB: Hollow Bore (blind) encoder offers several different flex mounts that eliminate couplings, making it ideal for motors or shafts

Model A58HB – 58 mm hollow bore (blind) encoder

The Model A58HB offers high IP rating and is available with bores up to 3/8” or 14 mm, and two flexible mounting options, the Model A58HB is easily designed into a variety of applications.

- **Size Options:**
  - 58 mm (2.28”) Diameter Package available in shaft or hollow bore (blind)

Model A25SB – industrial Size 25 encoder

Available with IP67 sealing, several shaft sizes and mounting styles, the Model A25SB is easily designed into OEM and aftermarket applications. Offers proven double bearing design.

- IP67/Sealing Available
- Servo and Flange Mounting
- Standard Size 25 Package (2.5” x 2.5”)

When to Use Absolute Encoders

There are certain considerations that would suggest the use of an absolute encoder rather than an incremental encoder. These considerations include, but are not limited to:

- **Connectivity.** When you need your encoders to communicate over a network, absolute encoders offer more communication protocol options.
- **Electrical Noise.** Absolute encoders are more resistant to electrical noise.
- **Reliability of Power Supply.** If your application is subject to power loss, an absolute encoder is a better choice because it will retain its position after a power-off scenario.

If you have questions about using an absolute encoder, call our Technical Services Department. You’ll talk to real engineers who understand absolute feedback in motion control, and will help you find the right encoder solution for your application.