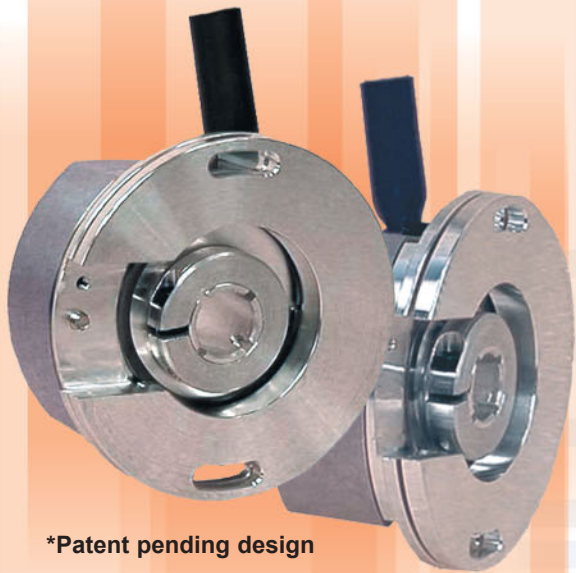


SPOTLIGHT ON**THE MODEL 121 MODULAR ENCODER****AT LAST,
SOMETHING TRULY NEW IN MODULARS!****Are You...**

- **Tired of unreliable modular encoders that are time consuming and difficult to install?**
- **Tired of fighting gapping and alignment for proper calibration?**



*Patent pending design

Then try EPC's Model 121 Modular Encoder. It's innovative design requires only 4 simple steps to install!

1. Slide the encoder over the motor shaft

2. Tighten the shaft clamp

3. Tighten the mounting screws

4. Use the time you just saved to enjoy a well deserved cup of coffee

AT LAST! A reliable modular encoder that requires no calibration, gapping, or special tools to install! EPC has taken the performance of modular encoders to a new level with the Model 121 Auto-Aligning Modular Encoder. This new and innovative design, provides simple, reliable, hassle free installation. **Simply tighten the shaft clamp, install the mounting screws, and you're done!**

The Model 121 incorporates the latest Optical ASIC technology for greatly enhanced performance. Common problems with other modular encoder designs are warping and deflection, caused by their extensive use of plastic, both of which are virtually eliminated by the Model 121's all metal construction.

For brushless servo motor applications, the Model 121 can be specified with three commutation tracks to provide motor feedback. The optional 100P C temperature capability allows servo motors to operate at higher power outputs and duty cycles.

With its state-of-the-art technology and durable, all metal construction, you can be confident your Model 121 Accu-Coder™ is the finest modular encoder available anywhere!



Encoder Products Company

Your Encoder Source for Over 30 Years
www.encoder.com

Model 121 Specifications

Electrical

Input

Voltage5 or 12 VDC (Specify at time of order)
 Current100 mA max with no output load

Output

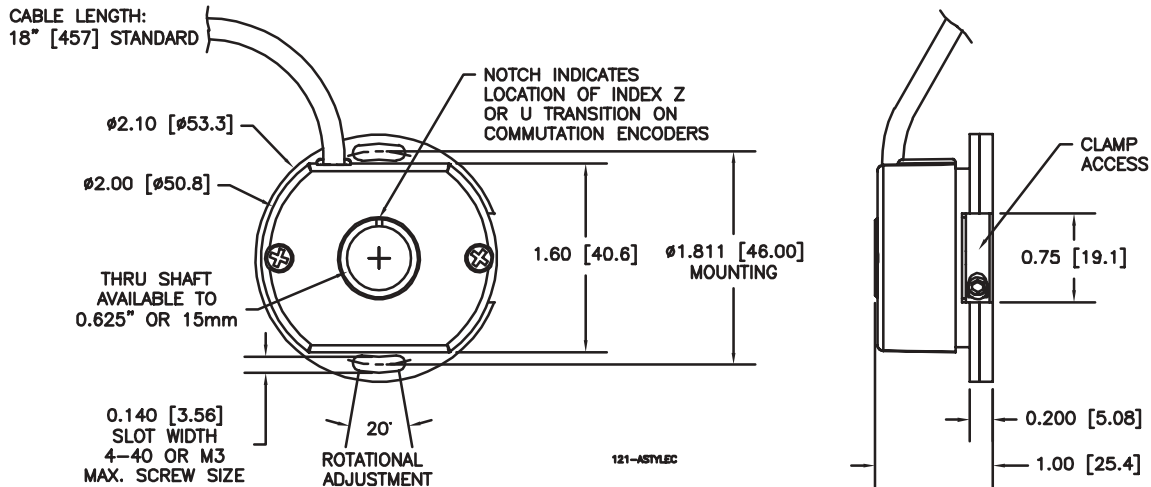
TypeTwo square waves in quadrature with channel A leading B for clockwise rotation. Index optional
 CommutationOptional - three 120P electrical phase tracks for commutation feedback. (4, 6, 8, or 12-poles, others available upon request)
 CircuitsOpen Collector (20 mA per channel max), Push-Pull (20 mA per channel max), Line Driver Output 5 or 12 VDC (meets RS 422 at 5 VDC supply)
 Index.....Once per revolution gated to channel A. Contact Customer Service for additional gating options
 Freq. Response100 kHz standard, 200 kHz and 300 kHz optional
 Symmetry180P (±18P) electrical at 100 kHz
 Quad. Phasing90P (±22.5P) electrical at 100 kHz
 Min. Edge Sep.67.5P electrical at 100 kHz
 Standard CPR200, 250, 256, 300, 360, 500, 512, 600, 1000, 1024, 1200, 1250 For higher resolutions of 2000, 2048, and 2500, contact Customer Service for review of application
 Accuracy.....Within 0.1P mechanical from one cycle to any other cycle, or 6 arc minutes

Mechanical

Max. Shaft SpeedDetermined by maximum frequency response
 Bore Size.....0.250" through 0.625", 5mm through 15mm
 Bore Tolerance+0.0007" (max) -0.0000" (Based on H7 bore fit for g⁶ shaft Class LC5 per ANSI B-4.1 Standard)
 User Shaft
 Radial Runout0.002" max
 Axial Endplay±0.015" for CPR ≤ 512, ±0.010" for CPR 513 - 1250, ±0.006" for CPR > 1250
 Moment of Inertia2.5 x 10⁻⁴ oz-in-sec²
 Max. Acceleration5 X 10⁴ rad/sec²
 Electrical Conn.....18" long braided and foil shielded cable for EMC compliance. Cable is 24 gauge without commutation, 28 gauge with commutation
 HousingAll Metal Aluminum and Zinc Alloy
 MountingTwo screws on a 1.812" Dia. B.C. (4-40 or M3 maximum through size)
 Weight4 oz typical

Environmental

Operating Temp.....0° to 70° C for standard models, 0P to 100P C for high temperature option
 Storage Temp-25° to +100° C
 Humidity.....98% RH non-condensing
 Vibration10 g @ 58 to 500 Hz
 Shock.....50 g @ 11 ms duration



Courtesy of Your Local Vendor