

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?



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!



1 of 2

SUNSTAR传感与控制 M:OGG r-i1.2/ Tel: Specification SIL: szss200163.com

Electrical

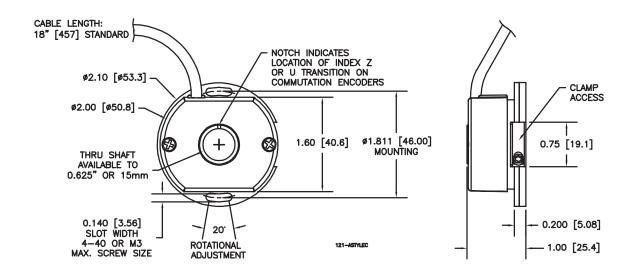
Input	
Voltage	5 or 12 VDC (Specify at time of order)
Current	100 mA max with no output load
Output	
	Two square waves in quadrature with channel A
71-	leading B for clockwise rotation. Index optional
Commutation	Optional - three 120b electrical phase tracks for
	commutation feedback. (4, 6, 8, or 12-poles, others
	available upon request)
Circuits	Open 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. Response	100 kHz standard, 200 kHz and 300 kHz optional
Symmetry	180Þ (±18Þ) electrical at 100 kHz
	90Þ (±22.5Þ) electrical at 100 kHz
Min. Edge Sep	67.5Þ electrical at 100 kHz
Standard CPR	200, 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 0.1b mechanical from one cycle to any other
	cycle, or 6 arc minutes

Mechanical

Max. Shaft SpeedDetermined by maximum frequency response
Bore Size0.250" through 0.625", 5mm through 15mm
Bore Tolerance+0.0007" (max) -0.0000" (Based on H7 bore fit for
g ⁶ 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-sec ²
Max. Acceleration5 X 10 ⁵ rad/sec ²
Electrical Conn18" long braided and foil shielded cable for EMC
compliance. Cable is 24 gauge without commuta-
tion, 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, 0♭ to 100♭ C for
	high temperature option
Storage Temp	25° to +100° C
Humidity	98% RH non-condensing
Vibration	10 g @ 58 to 500 Hz
Shock	50 g @ 11 ms duration



Courtesy of Your Local Vendor