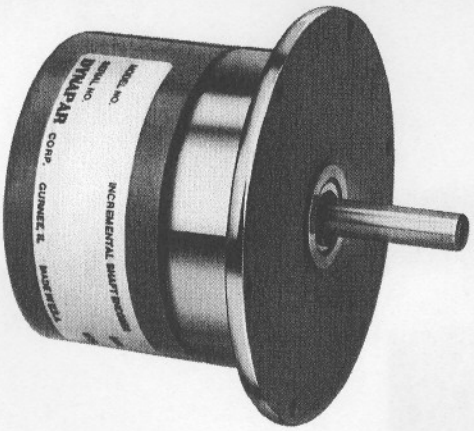
Series EC80

This product has been discontinued.
Please contact Dynapar for assistance.
1-800-873-8731
www.dynapar.com



- ***2.0" diameter economy model***
- ***Up to 1024 PPR***
- ***Unidirectional or bidirectional outputs***
- ***Pre-wired shielded cable with optional connector***

The Series EC80 is an ideal solution for applications requiring economical measurement of speed, length, travel, direction of rotation, etc. It features convenient flange mount installation with a choice of six mounting holes on a 2.5" diameter bolt circle.

The EC80 is designed to be the economical encoder of choice for OEM applications where there is limited exposure to moisture and dirt.

Features

- Choice of 5, 12, or 15 VDC
- Wide selection of PPR's
- Rugged 1/4" diameter stainless steel shaft and precision bearings
- Solid state LED light source
- Compact — only 1.88" high from the mounting surface
- Side exit cable included

SPECIFICATIONS

Electrical

Code: Incremental

PPR: 20, 25, 50, 100, 180, 200, 250, 350, 400, 500, 600, 720, 900, 1000, 1024 (Other counts available; consult factory.)

Accuracy: (±360/PPR) x 3 or ±2.5 arc minutes worst case pulse to any other pulse, whichever is less

Output Signals: Squarewave

TTL (Vcc = 5 VDC ±5%): Logic "1" 2.5V min. with 10 TTL gate loads, 10 mA source; Logic "0" 0.4V max. at 20 mA sink

CMOS (Vcc = 12 VDC ±10%) OR (Vcc = 15 VDC ±10%): Logic "1" Vcc minus 1.5V min. at 200 ohms, 10 mA source; Logic "0" 0.4V max. at 20 mA sink

Input Power Requirements:

TTL (+5 VDC): 130 mA max.

CMOS (+12 or +15 VDC): 100 mA max.

Frequency Response: Up to 50 kHz max.

Quadrature: 90° ±45°

Phase Sense: Channel A leads B for CW rotation as viewed from the end of the shaft

Symmetry: 180° ±18°

Cable: 18" shielded, jacketed, 4-conductor, 28 AWG

Connector: AMP #126-220

Mating Connector: Amphenol #126-221 or order Dynapar #EC80-N1

Mechanical

Weight: 10.0 oz. max.

Starting Torque at 25°C: 0.1 oz-in max.

Running Torque at 25°C: 0.09 oz-in max.

Moment of Inertia: 1.4 x 10^{-4} oz-in sec.^{2} max.

Shaft Rotation: Continuous and reversible

Slew Speed: 5000 RPM max.

Shaft: 1/4" dia. stainless steel

Shaft Loading:
Axial: 5 lb. max.
Radial: 5 lb. max.

Bearings: Precision instrument

Bearing Life: 20 x 10^6 rev./RPM = hours min.

Environmental

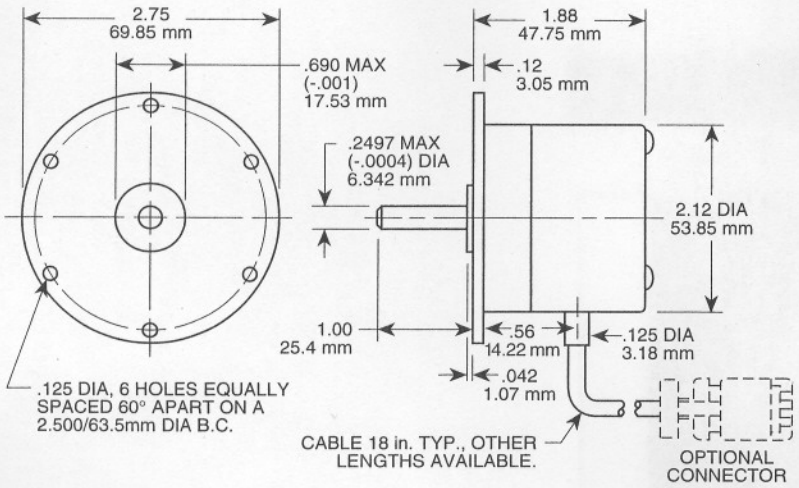
Operating Temperature: 0° to +70°C

Storage Temperature: -25° to +70°C

Relative Humidity: to 98% non-condensing

Enclosure Rating: NEMA 12 / IP54

Approximate Dimensions (inches/mm)



Electrical Connections

Function (If Used)	Wire Color Code	Pin
VCC	Red	E
Common	Black	C
Signal A	White	A
Signal B	Green	H
Floating	Shield	K

Ordering Information

To order, complete the model number with code numbers from the table below:

Code 1: Model	Code 2: Pulses/Rev	Code 3: Voltage	Code 4: Termination	
EC82	☐☐☐☐	☐	☐	**00**
EC82 Economical, Light Duty Enclosed	**0020** **0400** **0025** **0500** **0050** **0600** **0100** **0720** **0180** **0900** **0200** **1000** **0250** **1024** **0350**	**0** 5 VDC **1** 12 VDC **2** 15 VDC	**0** 18" Cable **1** 18" Cable with Connector **2** 3' Cable **3** 6' Cable **4** 10' Cable **5** 15' Cable	