EC Series Encoder Specifications

MECHANICAL

Dimensions(See drawing below)

Weight2.1 oz.

Torque Starting < 0.2 oz. in.

Running < 0.1 oz. in..

Acceleration500,000 rad/sec²

MOTOR INTERFACE

Shaft Tolerancenominal -.0002"/-.0007"

Shaft Length 0.56" min

ELECTRICAL

CodeIncremental

Supply Voltage+5 +/-5% @ 80mA max.

Output Dual channel quadrature plus index

Output Typesquare wave TTL

Maximum Sink Current 16 mA

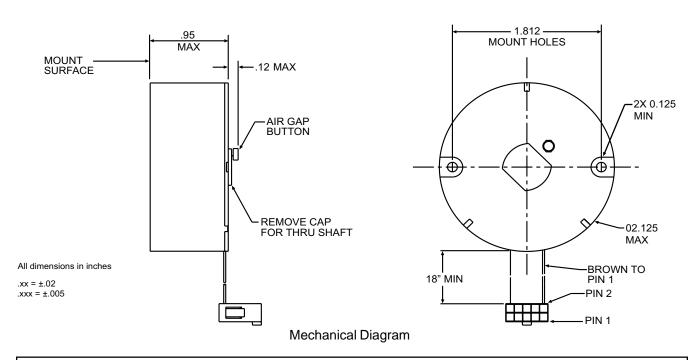
Frequency Response 100 kHz Data

Temperature-10° C to 70° C operating

-40° C to 125° C storage

TERMINATION

WIRING TABLE	
NO.	FUNCTION
1	channel A
2	+5 volts
3	ground
4	NC
5	NC
6	NC
7	NC
8	channel B
9	NC
10	index



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MOUNTING INSTRUCTIONS

INSTALLATION:

- 1. Motor shaft must be free of burrs & other defects, and should NOT be rotating during initial encoder installation.
- 2. Hold encoder perpendicualr to motor shaft. Guide the encoder onto the motor shaft, pushing encoder STRAIGHT on until it is flush against the mount surface. Do NOT rock side to side.
- 3. Install two #4-40 mount screws. Do not fully tighten at this point. (Note: A thread sealant should be applied to the screw threads.)
- 4. Rotate the motor shaft (300 RPM, minimum). Press the air-gap button guntil it bottoms to the top of the encoder momentarily, then release.

CAUTION: DO NOT press air-gap button while motor shaft is stationary. Button should only be pressed for one or two seconds while shaft is rotating.

Tighten mounting screws fully. (recommended torque is 30 to 40 ounce inches)

This completes the mechanical installation. Proceed with electrical connections as indicated on product data sheet / or specification drawing.

REMOVAL:

Motor shaft may be stationary or rotating up to 1000 RPM during encoder removal.

Remove two mounting screws.

Grasp encoder firmly and pull STRAIGHT off of the motor shaft. Do NOT rock side to side.