EH Series Encoder Specifications

MECHANICAL
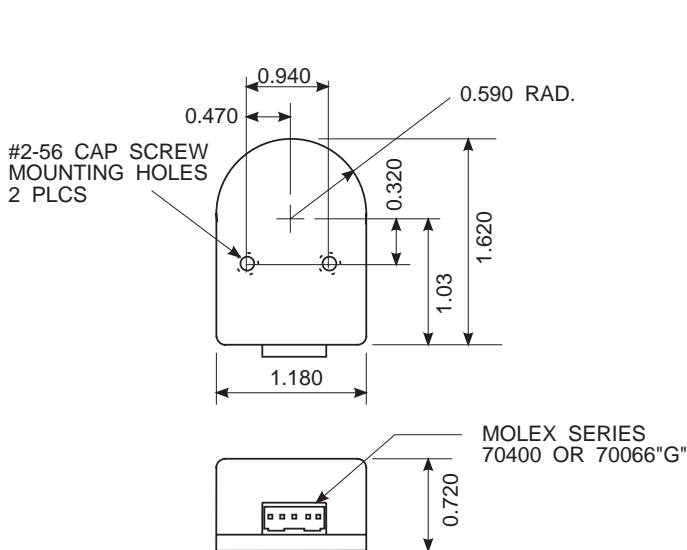
Dimensions .... (See drawing below)
Weight .... <1 oz.
Bore Size......................... 0.25 in.
Shaft Runout .... 0.005 TIR
Shaft Endplay .... +/- 0.010 in.
Shaft Length required .... 0.35 - 0.65 in.

ELECTRICAL

Code................................ Incremental
Supply Voltage .... +5 +/-10% @ 60ma max.
Output .... Dual channel quadrature plus index.
Output Type .... Square Wave; TTL and CMOS compatible
Maximum Sink Current ..... 95 mA
Frequency Response .... 100 kHz (Data & Index)
Temperature .... -40 to 100° C operating & storage
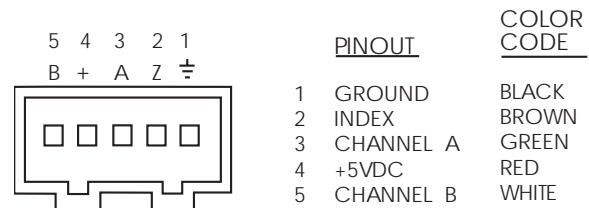
TERMINATION

Header .... 5 pin single row positive locking
Mating Connector .... AMP 103959-4 ,Molex Series 70066 or
70400 "G" for 22-30 AWG

Mechanical Diagram

5	4	3	2	1	PINOUT		COLOR CODE
$\pm$	Z	A	+	B	5	GROUND	BLACK
					4	INDEX	BROWN
					3	CHANNEL A	GREEN
					2	+5VDC	RED
					1	CHANNEL B	WHITE
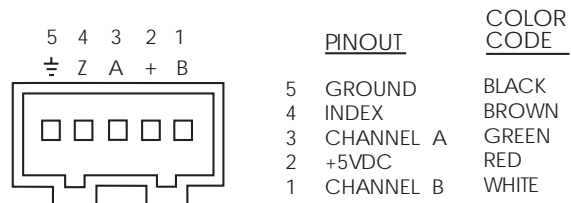
Pinout & Color Code Diagram for BEI Model Encoders

5	4	3	2	1	PINOUT		COLOR CODE
B	+	A	Z	$\pm$	1	GROUND	BLACK
					2	INDEX	BROWN
					3	CHANNEL A	GREEN
					4	+5VDC	RED
					5	CHANNEL B	WHITE

Pinout & Color Code Diagram for HP Model Encoders

HP Encoder Mounting and Assembly
Model #: HEDS-5540

Mount encoder base plate onto motor. Tighten screws.

Snap encoder body onto base plate locking all 4 snaps.

Push the hex wrench into the body of the encoder to ensure that it is properly seated into the code wheel hub set screw. Then apply a downward force on the end of the hex wrench. This sets the code wheel gap by levering the code wheel hub to its upper position.

While continuing to apply a downward force, rotate the hex wrench in the clockwise direction until the hub set screw is tight against the motor shaft. The hub set screw attaches the code wheel to the motor's shaft.

Remove the hex wrench by pulling it straight out of the encoder body.

Use the center screwdriver slot to rotate the encoder cap clockwise from the one dot position to the two dot position. Do not rotate the encoder cap counterclockwise beyond the one dot position.

Install the end of the encoder cable labeled computer into the BreakOut OT. The connector and receptacle are polarized.

The other end of the cable is labeled encoder and plugs in to the connector on the encoder. Make sure the arrow on the connector is on the same side as the dot on the encoder.