

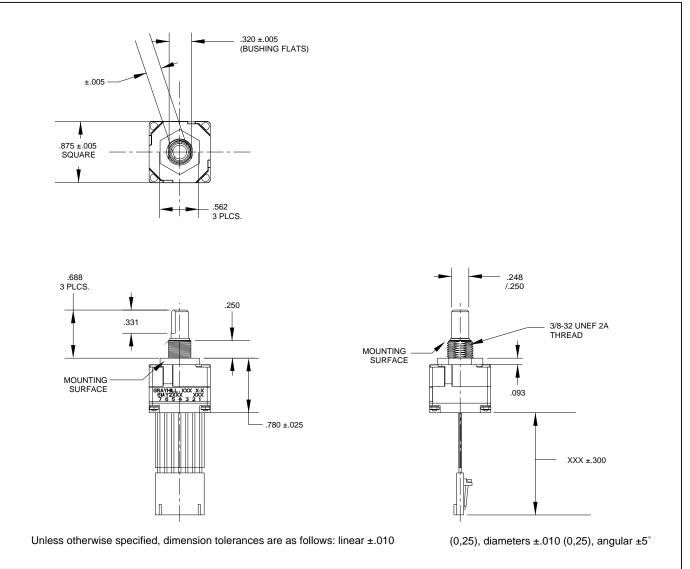
SERIES 61A Custom, Absolute

FEATURES

- Absolute Position Sensing
- 3, 4, or 5-Bit Custom Output Coding
- 8 to 32 Positions
- Continuous Rotation and Fixed Stops Available
- Angles of Throw to 45° (Design Specifications Will Dictate the Angle of Throw)



DIMENSIONS In inches (and millimeters)



SPECIFICATIONS

Ratings

Operating Voltage: 5 ±.25V DC Supply Current: 85 mA maximum at 5V DC Life: 1 million cycles of operation; 1 cycle is rotation through all positions and a full return Rotational Torque: 1.5 in-oz (Initial) Output High: 3.8V minimum for CMOS & HCMOS; 2.7V minimum for TTL Output Low: 0.8V maximum Shaft Push Out Force: 25 lbs. Mounting Torque: 10 in-lb maximum Load Current: 5 mA maximum per channel Logic Rise and Fall Times: 30 mSec typical

Environmental

Operating Temperature Range: -40°C to +85°C **Storage Temperature Range:** -55°C to +100°C **Vibration:** MIL-STD 202, method 204, condition B **Mechanical Shock:** 100 g's, 6 ms, half Sine 12.3 ft/s and 100 g's, 6 ms, sawtooth, 9.7 ft/s **Humidity:** 90-95% Relative humidity at 40°C for 96 hrs.

Materials and Finishes

Detent Housing/Bushing: Nylon 6/10 Shaft: Glass-filled nylon Detent Balls: Steel, nickel-plated Code Housings: Nylon 6/10 Backplate: Nylon 6/10 Aperture: Chemically etched stainless steel with black oxide finish Rotor: Electroformed nickel and chemically

etched stainless steel with black nickel finish Detent Springs: Tinned music wire PC Boards: NEMA grade FR-4

Through Bolts: Stainless steel, unplated Through Bolt Nuts: Stainless steel

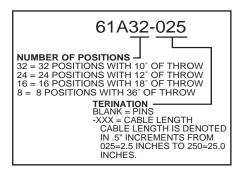
Switch Assembly Cover: Thermosetting plastic Mounting Hardware: One brass, cadmiumplated nut and lockwasher supplied with each switch. Nut is 0.094 inches thick by 0.562 inches across flats.

ACCESSORIES

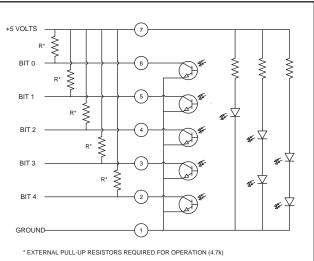
See page I-41. For control knobs see page I-57.

ORDERING INFORMATION

Options include stainless steel detent housing for higher rotational torque applications. Metal shaft and bushing available. Custom shaft and bushing configurations available. Contact Grayhill for information on angles of throw and stop strength.

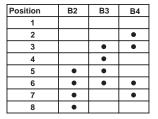


CIRCUITRY



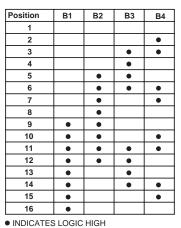
TRUTH TABLE

3 BIT, 8 POSITION



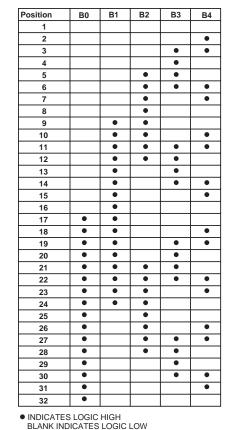
INDICATES LOGIC HIGH
BLANK INDICATES LOGIC LOW

4 BIT, 16 POSITION



INDICATES LOGIC HIGH
BLANK INDICATES LOGIC LOW

5 BIT, 32 AND 24 POSITION



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