

SERIES 61C

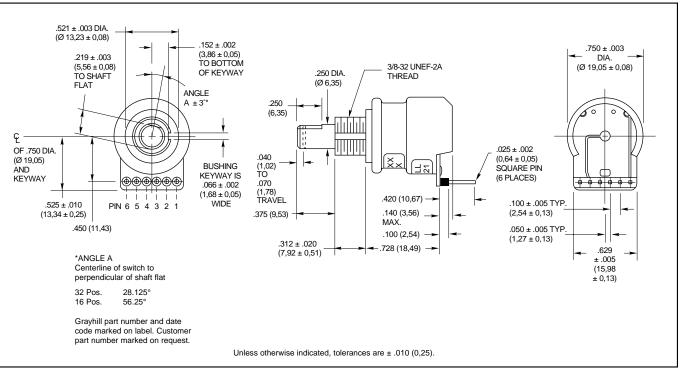
16 or 32 Position with Pushbutton

FEATURES

- Competitively Priced to Similar Electromechanical Switches
- Optically Coupled For More Than A Million Trouble-Free Rotations
- Has Data Entry Pushbutton Switch Activated By Switch Shaft
- Compatible With CMOS, TTL and HCMOS Logic
- Operationally Used to Move Display Icon and Input Data
- Used to Set Radio Frequency, Drill Depth, RPM, etc.

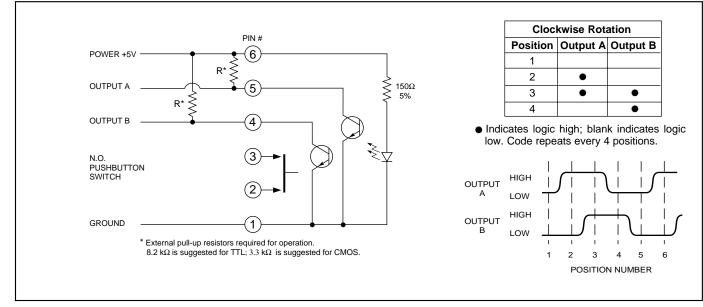


DIMENSIONS In inches (and millimeters)





CIRCUITRY, TRUTH TABLE, AND WAVEFORM: Standard Quadrature 2-Bit Code



SPECIFICATIONS

Pushbutton Switch Ratings Rating: 5 Vdc, 10 mA, resistive

Contact Resistance: less than 10 ohms (TTL or CMOS Compatible)

Voltage Breakdown: 250 Vac between mutually insulated parts.

Contact Bounce: Less than 4 milliseconds at make and less than 10 milliseconds at break. **Actuation Life:** 3,000,000 operations.

Actuation Force: maximum actuation force of 330 grams and a minimum actuation force of 250 grams.

Encoder Ratings

Coding: 2-bit quadrature coded output. **Operating Voltage:** 5.0 ±.25 Vdc **Supply Current:** 30 mA maximum at 5 Vdc **Logic High:** 3.8V for CMOS and 2.7V for TTL minimum.

Logic Low: 0.8V maximum Logic Rise and Fall Times: Rise Time less

ORDERING INFORMATION

than 30 mS at 16.6 RPM. Fall Time less than 30 mS at 16.6 RPM.

Operating Torque: 1.5 in-oz \pm 30% initial (1.0 in-oz \pm 50% after life for 32 position only) **Rotational Life:** more than 1,000,000 cycles of operation (1 cycle = 360° rotation and return) **Shaft Push Out Force:** 20 lbs minimum **Mounting Torque:** 10 in-lbs maximum

Environmental Ratings

Operating Temperature Range: -40°C to 85°C **Storage Temperature Range:** -55°C to 100°C **Relative Humidity:** 90-95% at 40°C for 96 hours.

Vibration Resistance: Harmonic motion with amplitude of 15g, within a varied 10 to 2000 Hz frequency for 12 hours per MIL-STD-202, Method 204

Shock Resistance: Test 1: Tested at 100g for 6 mS, half sine, 12.3 ft/s Test 2: 100g for 6 mS, sawtooth, 9.7 ft/s

Materials and Finishes

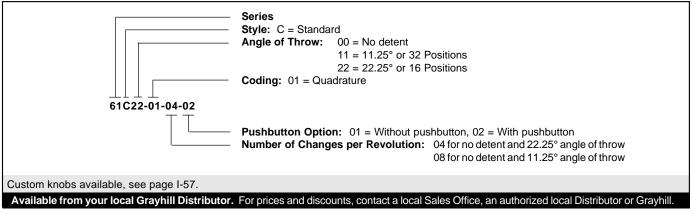
Bushing: Reinforced thermoplastic Shaft: Reinforced thermoplastic Detent Balls: Steel, nickel-plated Detent and Pushbutton Springs: Tinned music wire

Printed Circuit Boards: NEMA grade FR-4 Pushbutton Contact: Stainless steel, goldplated

Board Terminals: Phosphor bronze, tin-plated **Mounting Hardware:** One brass, cadmiumplated nut and lockwasher supplied with each switch. Nut is 0.094 inches thick by 0.562 inches across flats.

Rotor: Reinforced thermoplastic

Aperture/Dome Retainer: Lexan 141, Polycarbonate



ACCESSORIES

See page I-41.

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