

SERIES 62P

Low Cost, PC Mount



FEATURES

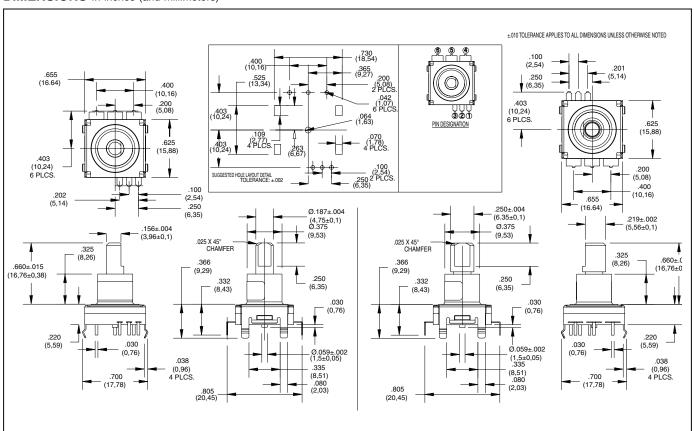
- Low Cost
- Compact Size
- PC Mount
- No De-Bouncing Required
- Reliable, Up to 2 Million Cycles
- Choice of Detent and Pushbutton Force
- Available in 16 Positions
- Quadrature Output

APPLICATION

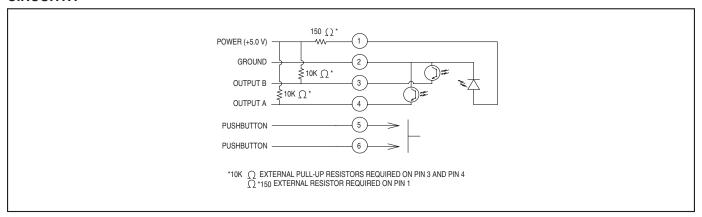
- Automotive Controls
- White Goods
- Audio



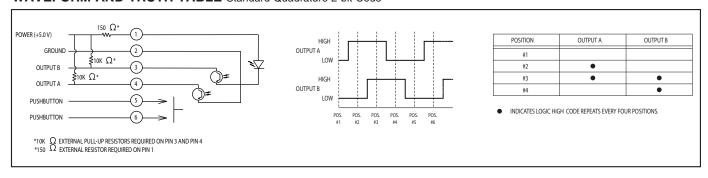
DIMENSIONS In inches (and millimeters)



CIRCUITRY



WAVEFORM AND TRUTH TABLE Standard Quadrature 2-bit Code



SPECIFICATIONS

Electrical Ratings

Operating Voltage: 5 Vdc +/-.25 Vdc Supply Current: 30mA maximum at 5 Vdc

Logic High: 3.0V minimum **Logic Low:** 1.0V maximum

Logic Rise and Fall: less than 30 ms

Pushbutton Switch Ratings

Rating: 5.0 Vdc at 10mA resistive Contact Resistance: less than 10 ohms (TTL or CMOS compatible)

Voltage Breakdown: 250 Vac between

mutually insulated parts

Contact Bounce: less than 4 ms at make

and less than 10 ms at break

Actuation Life: 3,000,000 operations Actuation Force: 6: 600 +/- 200 grams

4: 450 +/- 150 grams

Shaft Travel: .015 ± .010 inch

Mechanical Ratings Operating Torque:

H: 1.4 in-oz +/- 0.6 in-oz initial L: 0.6 in-oz +/- 0.3 in-oz initial

N: ∠0.5 in-oz initial

Rotational Life: H&L: 500,000 cycles N: 2 million cycles

(1 cycle = 360 degree rotation and return)

Shaft Push Out Force:

20 lbs minimum

Operating Speed: 100 RPM maximum Axial Shaft Play: .010 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

Mechanical Shock Resistance:

Test 1: Tested at 100g for 6mS, half sine,

12.3 ft/s.

Test 2: 100g for 6mS, Sawtooth, 9.7 ft/s

Materials and Finishes

Code/Pushbutton Housing: Thermoplastic

Shaft: Thermoplastic

Code/Detent Rotor: Reinforced

Thermoplastic

Bushing: Thermoplastic

Terminal Pins: Brass, Tin plated Detent Spring: Stainless Steel

Dome: Stainless Steel

Pushbutton Contact: Nickel plated brass

Phototransistor: Planar Silicon

Detent Balls:

.0625 dia. Stainless Steel

Infrared Emitter:

Gallium Aluminum Arsenide

Label:

White Thermal Transfer Cast Film.

Adhesive Coated

Bracket: Stainless Steel, Tin plated

ORDERING INFORMATION

