imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





SERIES 62N

1/2" Package, non-turn, Dedicated Shaft

FEATURES

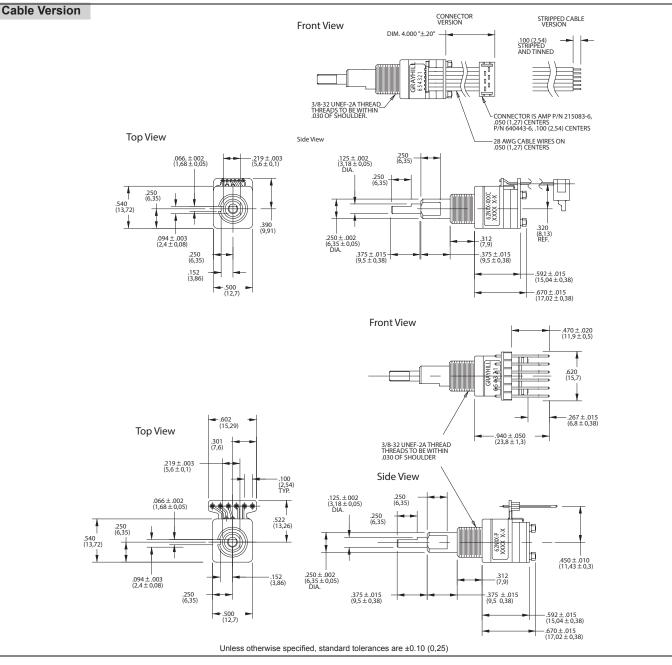
- Non-turn Pushbutton to Ensure Pushbutton Text and Orientation
- Seperate Pushbutton Function
- Low Cost
- Economical Size
- Optically Coupled for More than a Million Cycles
- Compatible with CMOS, TTL and HCMOS Logic
- Available in 12, 16, 24, and 32 Detent Positions (Non-detent also available)
- Choices of Cable Length and Terminations

APPLICATIONS

- Global Positioning/Driver Information
 Systems
- Medical Equipment
- Cockpit Controls



DIMENSIONS in inches (and millimeters)



SPECIFICATIONS

Pushbutton Switch Ratings

Rating: at 5 Vdc, 10 mA, resistive Contact Resistance: less than 10 ohms (TTL or CMOS compatible) Pushbutton Life: 3 million actuations minimum

Voltage Breakdown: 250 Vac between mutually insulated parts Contact Bounce: less than 4 mS at make and less than 10 mS at break Actuation Force: 1000 ±300g

Pushbutton Travel: .010/.025 inch

Encoder Ratings

Coding: 2-bit quadrature coded output Operating Voltage: 5.0 ±.25 Vdc Supply Current: 30 mA maximum@5.0 Vdc Logic Output Characterisitics: Logic Ligh: 3.8 Vdc minimum Logic Low: 0.8 Vdc maximum Mechanical Life: 1,000,000 cycles minimum (One cycle is a rotation through all positions and a full return)

Minimum Sink Current: 2.0 mA for 5 Vdc Power Consumption: 150mW maximum Output: open collector phototransistor Logic Rise and Fall Times: less than 30 mS maximum

Operating Torque:

Detent: 2.0 in-oz ±70% initially Non-Detent: less than 1.5 in-oz initially Shaft Push Out Force: 45 lbs minimum Mounting Torque: 15 in-lbs maximum Terminal Strength: 15 lbs cable pull-out force minimum Operating Speed: 100 RPM maximum

Environmental Ratings

Operating Temperature Range: -40°C to 85°C **Storage Temperature Range:** -55°C to 100°C **Vibration Resistance:** Harmonic motion with amplitude of 15G, within a varied 10 to 2000 Hz frequency for 12 hours

Mechanical Shock: Test 1: 100G, 6 mS, half sine, 12.3 ft/s; Test 2: 100G, 6 mS, sawtooth, 9.7 ft/s

Relative Humidity: 90-95% at 40°C for 96 hours

Materials and Finishes

Code Housing: Reinforced thermoplastic Shafts: Aluminum Bushing: Zinc casting Shaft Retaining Ring: Stainless steel Detent Spring: Stainless steel Printed Circuit Boards: NEMA grade FR-4 gold over nickel or palladium

Terminals: Brass, tin-plated

Mounting Hardware: One brass, nickel-plated nut and zinc-plated spring steel with clear trivalent chromate finish lockwasher supplied with each switch. (Nut is 0.094 inches thick by 0.433 inches across flats)

Grayhill

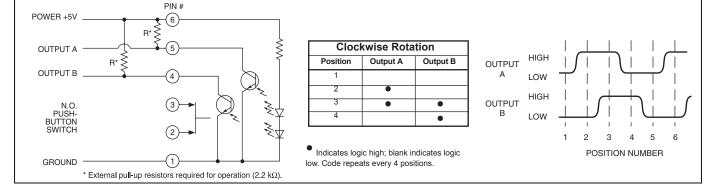
Rotor: Thermoplastic

Code Housing: Thermoplastic

Pushbutton Dome: Stainless steel Dome Retaining Disk: Thermoplastic Pushbutton Housing: Thermoplastic Phototransistor: Planar Silicon NPN Infrared Emitter: Gallium aluminum arsenide Pushbutton Contact: Brass, nickel-plated Flex Cable: 28 AWG, stranded/top coated wire, PVC coated on .050 or .100" centers (cabled version)

Header Pins: Phospher bronze, tin-plated Spacer: Thermoplastic Endcap: Thermoplastic Non-turn Pin: Stainless steel Backplate/Strain Relief: Stainless steel Studs: Stainless steel

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



ORDERING INFORMATION

