

SERIES 61S

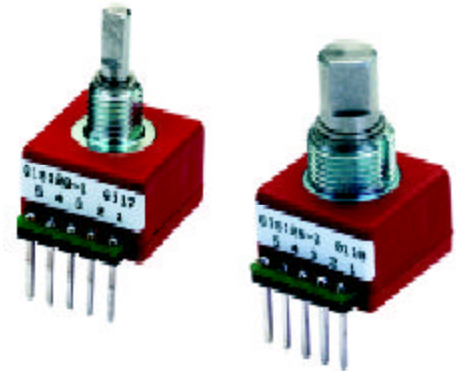
High Resolution, 5/8" Package

FEATURES

- Compact, 5/8" Package
- .125" or .250" Shaft Diameter
- 10 Million Rotational Cycles
- Compatible with CMOS, TTL and HCMOS Logic
- Available in 50, 64, 75, 100 and 128 Quadrature Cycles per Revolution
- Choices of Cable Length and Terminations
- Drop-In Industry Replacement

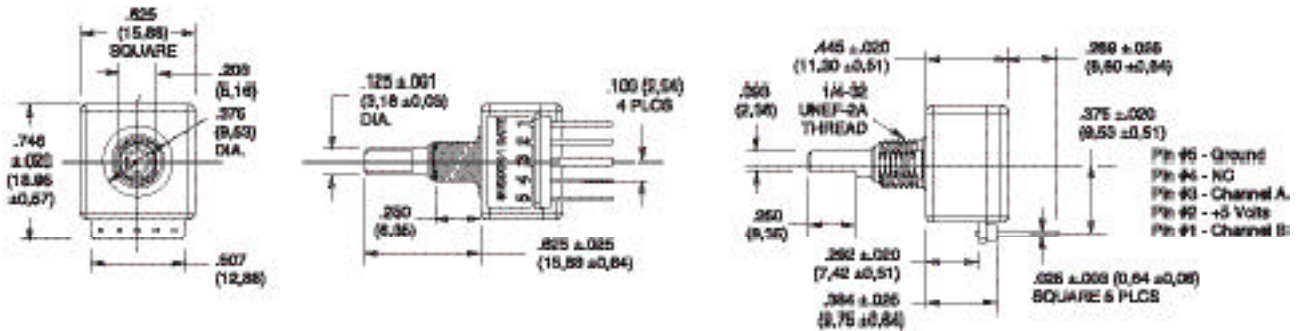
APPLICATIONS

- Audio Mixing Consoles
- Medical Equipment
- Test and Measurement Equipment

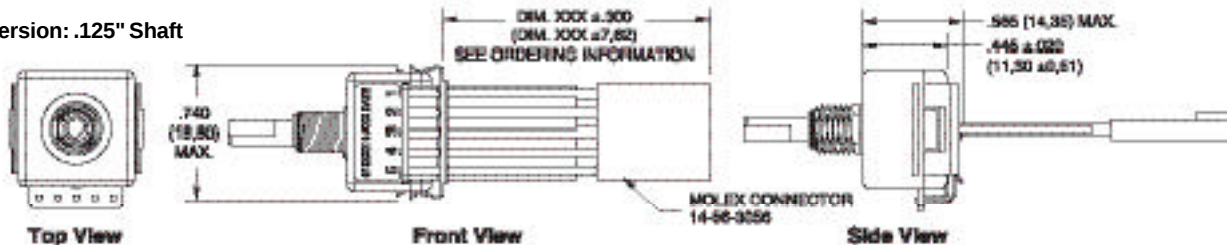


DIMENSIONS In inches (and millimeters)

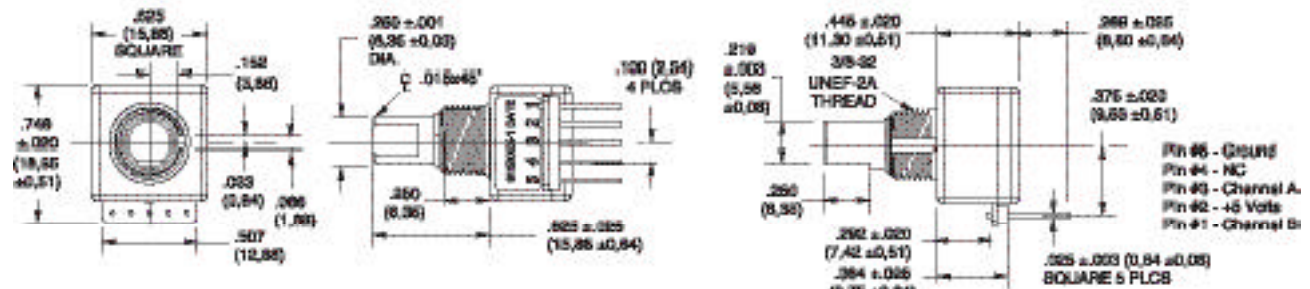
Pin Version: .125" Shaft



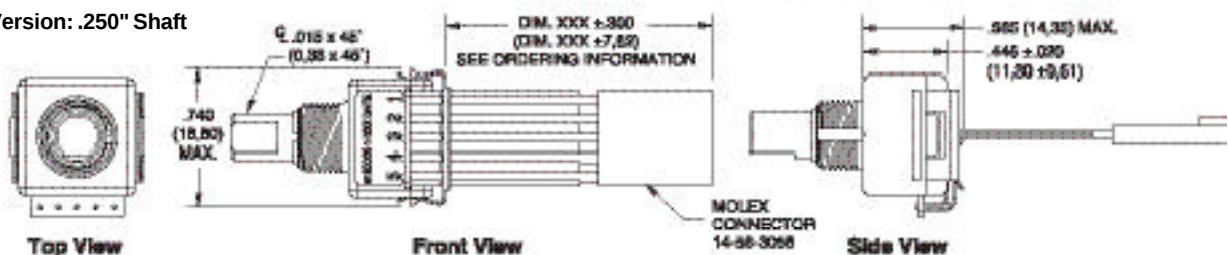
Cable Version: .125" Shaft



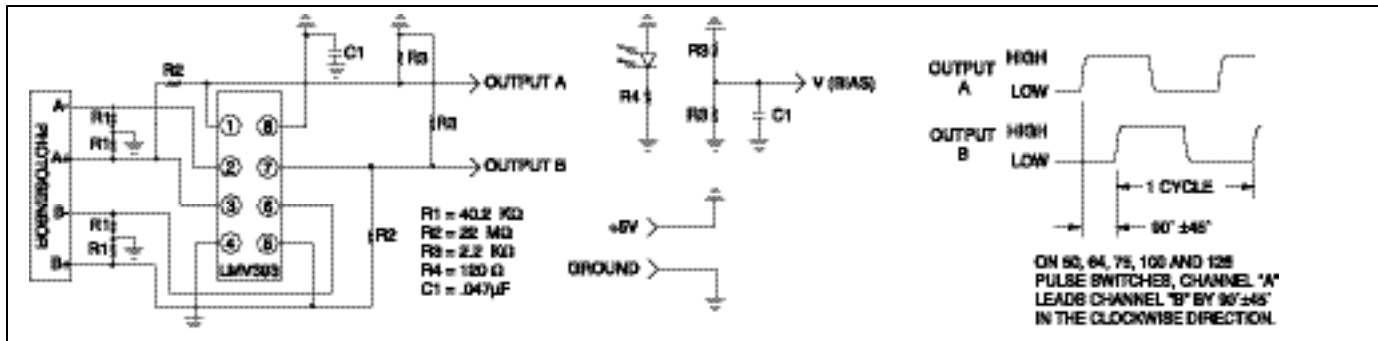
Pin Version: .250" Shaft



Cable Version: .250" Shaft



CIRCUITRY AND WAVEFORM Standard Quadrature 2-Bit Code



SPECIFICATIONS

Electrical Ratings

Operating Voltage: $5.0 \pm .25 \text{ Vdc}$

Supply Current: 50 mA maximum at 5 Vdc

Logic Output Characteristics:

Output Type: 2-bit gray code with channel A leading channel B by $90^\circ \pm 45^\circ$ when the shaft is turned clockwise

Power Consumption: 250 mW maximum

Rise/Fall Times: (25" standard cable ASM/ 13.3 PF measurement probe)

Rise Time: 1.0 microseconds typical

Fall Time: .440 microseconds typical

Mechanical Ratings

Mechanical Life: 10 million revolutions

Mounting Torque: 20 in-lbs maximum

Operating Torque: 1.5 in-oz maximum

Push Out Force: 50 lbs minimum

Rotational Torque: 1.5 in. oz. max.

Terminal Strength: 5 lbs terminal pull-out force minimum (pinned version)

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: Test 1: 100g for 6 mS, half-sine wave with velocity change of 12.3 ft/s. Test 2: 100g for 6 mS, sawtooth wave with velocity change of 9.7 ft/s.

Materials and Finishes

Bushing: Zinc plated brass

Housing: Nylon (Hiloy 610B)

Shaft: Stainless steel

Code Rotor: Chemically etched stainless steel/ electroformed nickel

Printed Circuit Board: NEMA Grade FR-4.

Five microinches minimum gold over 100

microinches minimum nickel over copper

Backplate: Nylon (Hiloy 610B)

Header: Phosphor bronze, 200 microinches tin over 50 microinches nickel (pinned version)

Retaining Ring and Thrust Washers:

Stainless steel

Photo Sensor: Planar silicon

Infrared Emitter: Gallium aluminum arsenide

Cable: 26 AWG, stranded/tinned wire, PVC coated on .100 (2,54) centers (cabled version)

Connector:

Housing: glass-filled polyester 94V-0, black

Terminals: 15 microinches gold in select area over 50 microinches minimum

ORDERING INFORMATION

Series
Style: S = unsealed, SS = sealed
Cycles: per channel per revolution = 50, 64, 75, 100, 128

61S128-2-025

Termination: Blank (no dash or numbers): pins as described in drawing.

Cable Termination: 020 = 2.0" minimum to 250 = 25" maximum. Provided in increments of 1/2".

Example: 035 = 3.5", 060 = 6". Cable is terminated with standard Molex part no. 14-56-3056.

Use any standard .100 center 5-pin header to interface with cable.

Shaft/Bushing: 1 = 0.125" shaft and 0.250" bushing; 2 = 0.250" shaft and 0.375" bushing

Available from your local Grayhill Component Distributor. For prices and discounts, contact a local Sales Office, an authorized local Distributor, or Grayhill.

ACCESSORIES

Non-turn Washers

The Series 61S bushing has a non-turn keyway to prevent rotation of the switch body when the panel is cut to fit. Another way to keep the switch from turning is to use a nonturn washer.

Part Number 50J1066: 302-2B stainless steel

Part number 12C1087-1: cadmium-plated

Part Number SHH694-11: 302-2B stainless steel, no plating

Shaft and Panel Seal

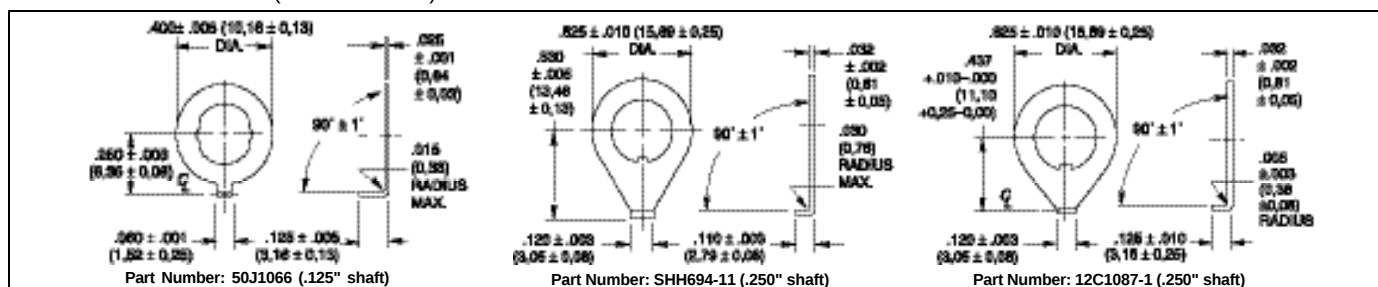
For shaft and panel seal version, the shaft is sealed by an o-ring inside the bushing. The panel is sealed by a flat gasket .045" thick at the base of the bushing. The panel seals will increase the behind panel dimension by .020"

to .040", when the switch is mounted. The panel seal is silicon rubber. The shaft seal is an o-ring per MIL-P-5516B.

OPTIONS

Contact Grayhill for custom terminations, shaft and bushing configurations, and resolutions. Control knobs are also available.

DIMENSIONS In inches (and millimeters)



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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