

SERIES 62HS High Torque

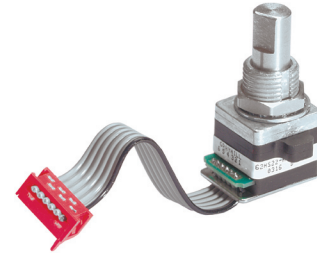
FEATURES

- High Rotational Torque Provides Positive Tactile Feedback
- Optically Coupled for More than a Million Cycles
- Optional Integral Pushbutton
- Compatible with CMOS, TTL and HCMOS Logic

- Available in 8, 12 and 16 Detent Positions
- Choice of Cable Length and Terminations

APPLICATIONS

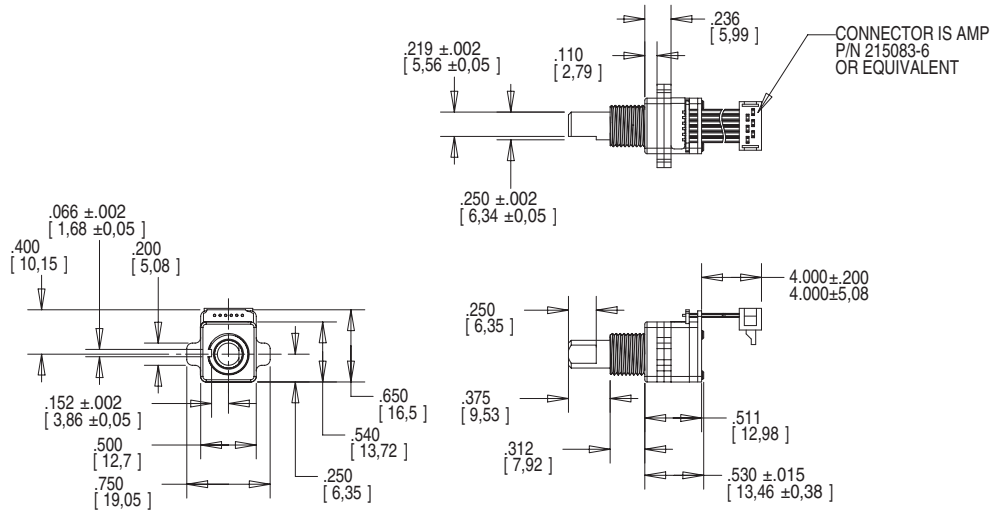
- Avionics



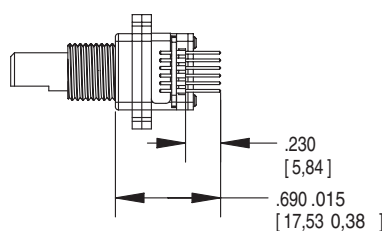
DIMENSIONS in inches (and millimeters)

Unless otherwise specified, standard tolerance is ± 0.010 (0,25).

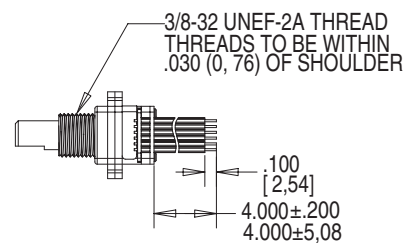
Cable Version



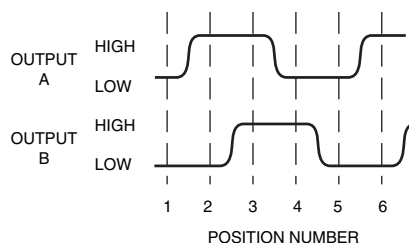
Pin Version



Stripped Version



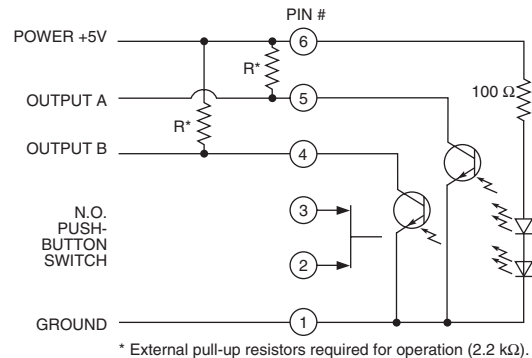
WAVEFORM AND TRUTH TABLE



Clockwise Rotation		
Position	Output A	Output B
1		
2	●	
3	●	●
4		●

- Indicates logic high; blank indicates logic low. Code repeats every 4 positions.

CIRCUITRY



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: 1100 ±300g

Encoder Ratings

Coding: 2-bit quadrature coded output

Operating Voltage: 5.0 ±.25 Vdc

Supply Current: 30 mA maximum @ 5.0 Vdc

Logic Output Characteristics:

Logic High: 3.0 Vdc minimum

Logic Low: 1.0 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: less than 30 mS max

Operating Torque: 5.0 in-oz +/- 1.5 in-oz initial

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

Shaft: Stainless Steel

Bushing: Zinc casting

Shaft Retaining Ring: Stainless steel

Detent Spring: Stainless steel

Detent Ball: Stainless steel

Detent Section: Hiloy 610

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)

Rotor: Thermoplastic

Pushbutton Dome: Stainless steel

Phototransistor: Planar Silicon NPN

Infrared Emitter: Gallium aluminum arsenide

Flex Cable: 28 AWG, stranded/top coated wire, PVC coated on .050" centers (cabled version)

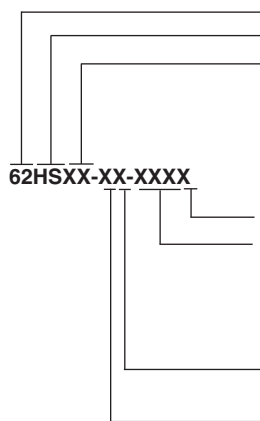
Header Pins: Brass, tin-plated

Spacer: Hiloy 610

Shim: Stainless Steel

Backplate/Strain Relief: Stainless steel

ORDERING INFORMATION



Series

Style: HS = High Torque

Angle of Throw: 45 = 45° or 8 positions, 30 = 30° or 12 positions, 22 = 22.5° or 16 positions

Termination: S = stripped cable, C = connector, P = pins

Cable Termination: 040 = 4.0in. Cable is terminated with

Amp P/N 215083-6. See Amp Mateability Guide for mating connector details.

*Eliminate cable length if ordering pins. (Ex: 62HS22-H9-P)

Pushbutton Option: 0 = w/o pushbutton, 9 = 1100g

Rotational Torque: H = High Torque

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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