

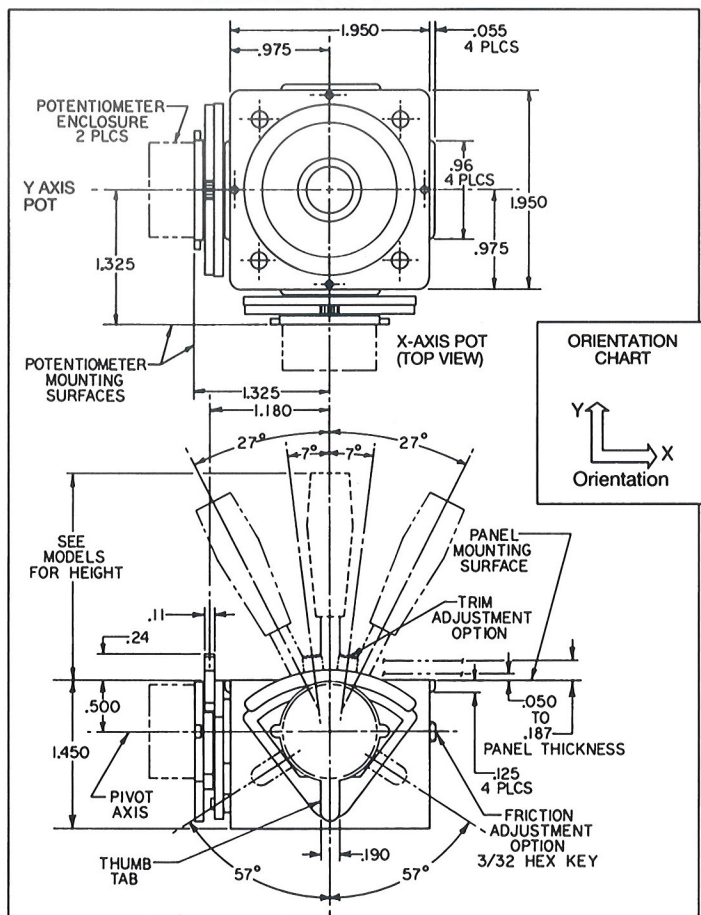
TRADITIONAL JOYSTICK CATEGORIES

STANDARD JOYSTICKS

Our most popular and versatile unit, the Standard Joystick is available in a variety of configurations to fit your particular application needs. Optional features include: six different centering options, mounting bezels for front or rear panel mounting, a rubber boot seal, various styles and sizes of stick handles, front panel accessible trim features as well as a wide range of output options types and values, which enable you to design the most optimal joystick for your needs.



STANDARD OUTLINE DRAWING



STANDARD JOYSTICK SPECIFICATIONS

- Joystick travel - 30° from design center in all directions
- Mechanical lifecycle - 5,000,000 (minimum)
- Trim movement (optional) - $\pm 7^\circ$ (total trim 14°) for each axis
- Main pivot ball - precision ground stainless steel
- Stick shaft - 3/16in. brass plated
- Return to center repeatability - $\pm 2\%$
- Mounting - front or rear panel (see bezels)
- Panel thickness (mounting) - .050in. to .187in.
- Deflection force - .14lbs. @ 27° @ 2 7/8in. up from pivot point
- Potentiometer calibration - thumb tab provides 114° of calibration
- Potentiometers - set at center of resistance
- or -
- Non-contacting Hall Effect sensors

Model 300

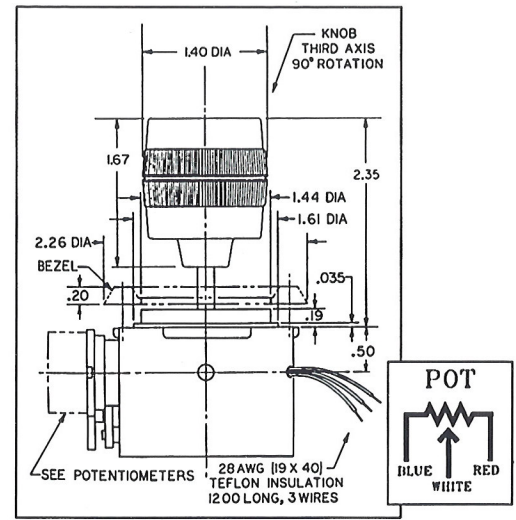
MODEL 300

(Three-Axes Joystick Assemblies) -The Model 300 joystick with Option 8 handle, is a three-axis, zero button joystick with a black spring-return-to-center textured knob on the stick handle providing a third axis. The Model 300 joystick comes equipped with a two-piece mounting bezel or an optional rubber boot seal.



OPTION 8

The Option 8 handle uses a 5k Ω , 1 Watt potentiometer housed within the knob, and can be rotated a total of 90°, $\pm 45^\circ$ from design center with .4in./lbs. of torque needed to initiate the rotation of the knob. Option 8 is a double-scissor, extension-type spring-action control knob with positive stops.

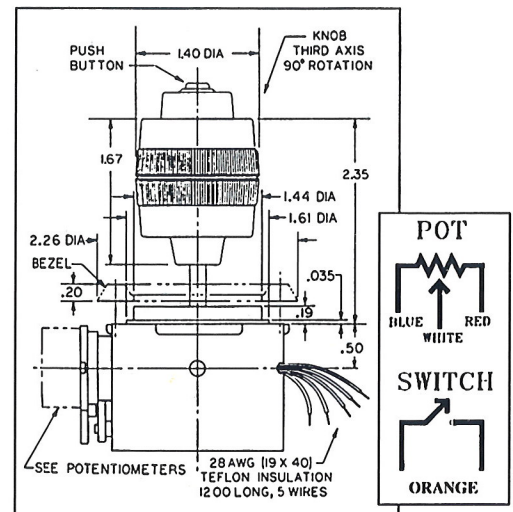


Option 8 handle

400 Model 400

MODEL 400

(Three-Axes with Pushbutton Joystick Assemblies) – The Model 400 is a three-axis joystick with a black spring-return-to-center textured knob and a pushbutton switch located at the top of the control knob. The switch on the Model 400 assembly is a normally open, single pole/single throw momentary contact switch. Options include a two-piece mounting bezel, rubber boot and IBM gray pushbutton.



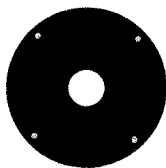
Option 9 handle

OPTION 9

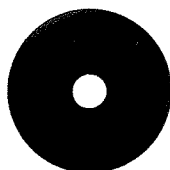
The Option 9 switch is a 5,000,000 life cycle switch rated at 500mA at 12VDC.

MOUNTING BEZELS

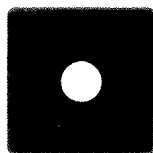
CH Products offers a variety of textured finish front mount (FM) or rear mount (RM) panel mounting bezels. All front mount bezels are sent with 2 sets (4 screws per set) of mounting screws (1/2in. and 1/4in. with 2/56 threading, Phillips flathead) with optional 3/8in. screws available upon request. All rear mount bezels are sent with two sets of non-anodized mounting screws (1/2in. and 1/4in. with 2/56 threading, Phillips flathead) with optional 5/16in. screws also available upon request. Please note: not all bezels are available with all joystick models. Check configuration guide for availability.



A- Round Bezel Textured (FM)
Cutout
Standard- 1.625 in.



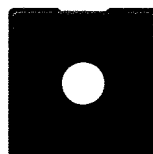
C- Split Bezel Textured (FM)
Cutout
Standard- 1.50in.
Miniature- 1.562in.



F- Square Bezel Textured (RM)
Cutout
Standard- 1.312in.
Miniature- 1.187in.



L- Rubber Boot Kit & Mounting
Ring Textured (FM)
Cutout
Standard- 1.562in.
Miniature- 1.562in.



O- Computer Bezel
Cutout
Compact- 1.213in.



Q- Square Bezel Snap-on (FM)
Cutout
Standard- 1.437in.
Miniature- 1.250in.



U- Round Bezel Snap-on (FM)
Cutout
Standard- 1.625in.

OPTIONS

OUTPUT OPTIONS

POTENTIOMETER

CLAROSTAT 595 (F) AND CLAROSTAT 388 (C)

- Electrical element: Conductive plastic
- Resistance (ohms): 5K (F) & 10K (C)
- Tolerance: $\pm 20\%$
- Power rating: 0.5W
- Linearity: $\pm 5\%$
- Temperature range ($^{\circ}\text{C}$): -55° to $+120^{\circ}$
- CRV (Contact Resistance Variation): $\pm 1.5\%$
- Electrical travel: 265°
- Mechanical rotation: 295°
- Terminals: Solder Lug & J Hooks
- Rotational life cycle: 1,000,000 & 50,000

F 5K



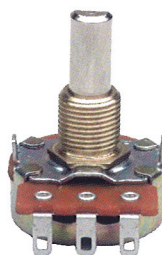
C 10K



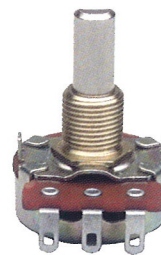
CTS HP SERIES (J, L)

- Electrical element: Conductive carbon
- Resistance (ohms): 100k & 130K
- Tolerance: $\pm 9\%$, $\pm 5\%$
- Power rating: 0.25W
- Linearity: $\pm 5\%$
- Temperature Range ($^{\circ}\text{C}$): 0° to 85°
- CRV (Contact Resistance Variation): 1%
- Electrical travel: 50°
- Mechanical rotation: 300°
- Terminals: Solder Lug
- Rotational life cycle: 2,000,000

J 100K



L 130K



SENSORCUBE (R, U)

- Electrical element: Conductive plastic
- Resistance (ohms): Standard : 5K & 10K
- Miniature: 5K
- Tolerance: $\pm 10\%$
- Power rating: 1W
- Linearity: $\pm 1\%$
- Temperature Range ($^{\circ}\text{C}$): -65° to $+125^{\circ}$
- CRV (Contact Resistance Variation): 1%
- Electrical travel: Standard : 56° & 265°
Miniature: 50°
- Mechanical rotation: Standard: 310° & 360° •
Miniature: 360°
- Terminals: Solder Lug
- Rotational Life cycle: 10,000,000

R 5K



U 10K



AVAILABLE RESISTANCE CALCULATION

Total available resistance depends on a combination of potentiometer type and joystick model selection. The available resistance range can be obtained using the formula below:

$$\begin{array}{l} \text{Total Potentiometer Resistance (ohms)} \\ \text{Potentiometer Electrical Travel (degrees)} \end{array} \times \begin{array}{l} \text{Joystick Mechanical} \\ \text{Travel (degrees)} \end{array} = \begin{array}{l} \text{Available Resistance} \\ \text{Range (ohms)} \end{array}$$

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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