RETURN TO END MINI THUMBWHEEL

PROPORTIONAL OUTPUT HALL EFFECT MINI THUMBWHEEL

Knurled Wheel

Paddle Wheel

The HTWME offers the same performance as the standard HTWE single axis, proportional output thumbwheel, but has a much shorter behind panel depth. With a panel depth of 0.96" max., the HTWME is ideal for panel or armrest mountings, or can be incorporated into one of OTTO's joysticks. The HTWME provides snap-in style mounting, and also utilizes non-contact Hall effect technology, which accounts for a one million cycle life. It also has excellent EMI/RFI shielding per MIL-STD-461D/ SAE J1113-22 and RFI to withstand 100 V/M, 14Hz to 1GHz. Configuration options include a choice of six linear voltage outputs.

Features:

- **Return to end single axis actuator**
- **Shorter behind panel depth: 0.96"**
- **Knurled & Paddle style actuators**
- **Wire or pinned termination options**
- **Variety of button & bezel colors**
- **6 output options**
- **Easy snap-in mounting**
- **1 million cycle rotational life**
- **Electronics sealed to IP68S**
- **Excellent EMI/RFI immunity**
- **RoHS/WEEE/Reach compliant**

Standard Characteristics/Ratings:

MECHANICAL:

Mechanical Life: 1,000,000 full forward to full back

Max Allowable Radial Load: 30.0 lbs.

ELECTRICAL RATINGS: Rated at 5V @ 25°C Load = 1mA (4.7KΩ)

Electrical	Units	Min	Typ	Max
Supply Voltage	VDC	4.5	5.0	5.5
Output at Rest	VDC @ 5V Vcc	-.25	N/A	+.25
Output at Full Travel	VDC @ 5V Vcc	-.25	N/A	+.25
Supply Current Per Senor	mA	N/A	N/A	10

ELECTRONICS:

Seal Integrity:	Electronics IP68S

ENVIRONMENTAL:

Operating Temp Range:	-40°C to +85°C
Humidity:	96% RH, 70°C, 96 hours
Vibration:	Per MIL-810F minimum integrity
Sand/Dust:	Per SAE J1455
EMI:	Withstand per MIL-STD-461D/SAE J1113-22
RFI:	Withstand 100V/M 14Hz to 1GHz

MATERIALS:

Button:	Thermoplastic
Bezel:	Thermoplastic
Snap Arms:	Thermoplastic
Wires:	18 AWG

HTWME RETURN TO END THUMBWHEEL MINIATURE CASE

HTWME – X X* X X X X X

Travel
1. 80°

Output 1
A. 0.5 - 4.5VDC
B. 0.5 - 4.5VDC
C. 0.5 - 4.5VDC
D. 1.0 - 4.0VDC
E. 1.0 - 4.0VDC
F. 1.0 - 4.0VDC

Output 2
NONE
0.5 - 4.5VDC
4.5 - 0.5VDC
NONE
1.0 - 4.0VDC
4.0 -1.0VDC

Operating Force
1. 10 oz typ

Button Style
1. Knurled Wheel
2. Paddle Wheel

Termination
A. 18 AWG Wire, 18.3" Long, Stripped and Tinned Ends
B. 0.025" SQ. Pins

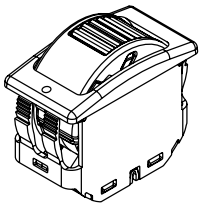
Bezel Color
1. Red
2. Black
3. Orange
4. Yellow
5. Green
6. Blue
7. Violet
8. Gray
9. White

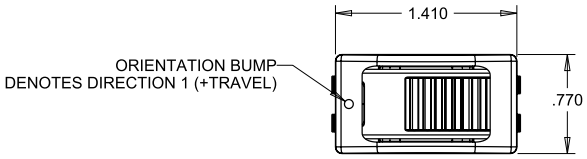
Button Color
1. Red
2. Black
3. Orange
4. Yellow
5. Green
6. Blue
7. Violet
8. Gray
9. White

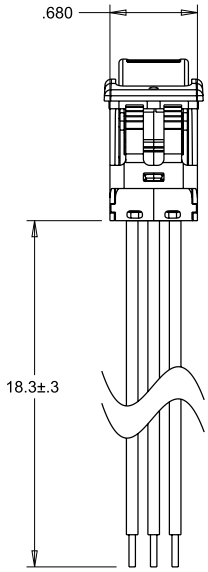
* Output options B and E provide redundant output 2 which duplicates output 1. Output options C and F provide redundant output 2 which is inverse output 1.

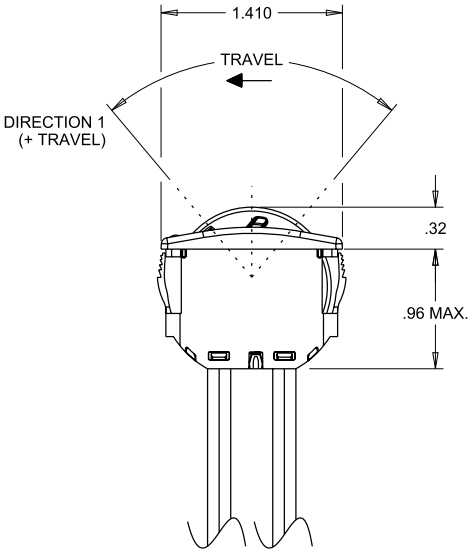
RETURN TO END MINI THUMBWHEEL

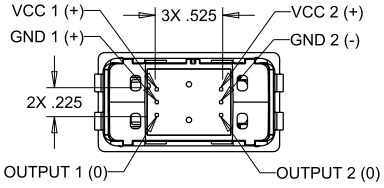
SHORTER BEHIND PANEL DEPTH





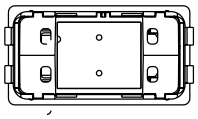




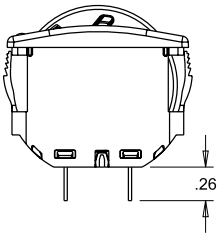


PINNED TERMINATION

NOT ALL PINS ARE PRESENT
IN ALL OUTPUT CONFIGURATIONS



NOT ALL WIRES ARE PRESENT
IN ALL OUTPUT CONFIGURATIONS

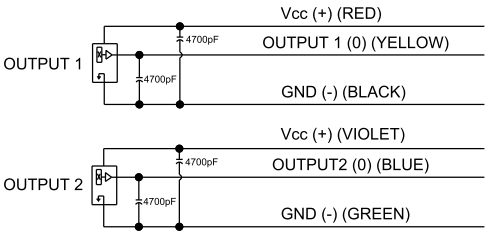


MOUNTING:

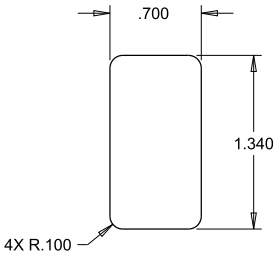
RECOMMENDED PANEL THICKNESS: 0.150 OPTIMUM THICKNESS
(0.040 MIN. - 0.200 MAX.)

RECOMMENDED PANEL OPENING: 0.700 X 1.340 OPTIMUM
(0.695/0.705 X 1.335/1.345}

RECOMMENDED PANEL RADII: 0.100 OPTIMUM
(0.090 - 0.110 MAX.)



OUTPUT 2 IS NOT PRESENT IN ALL CONFIGURATIONS

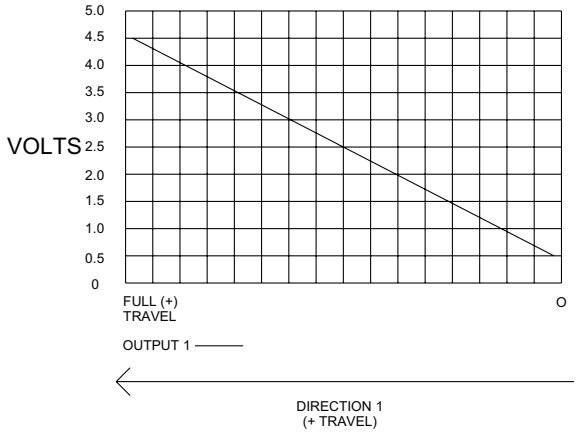


Specifications Subject To Change Without Notice

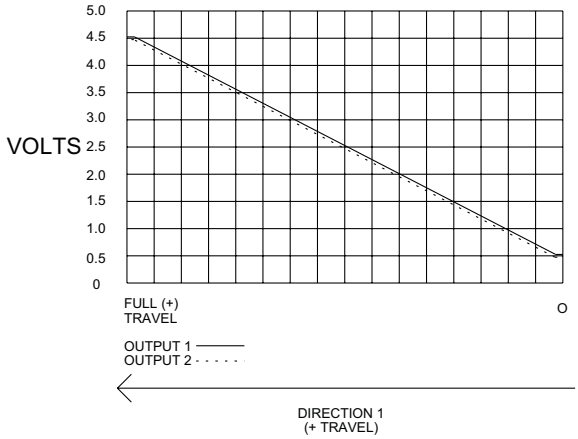
RETURN TO END MINI THUMBWHEEL

SHORTER BEHIND PANEL DEPTH

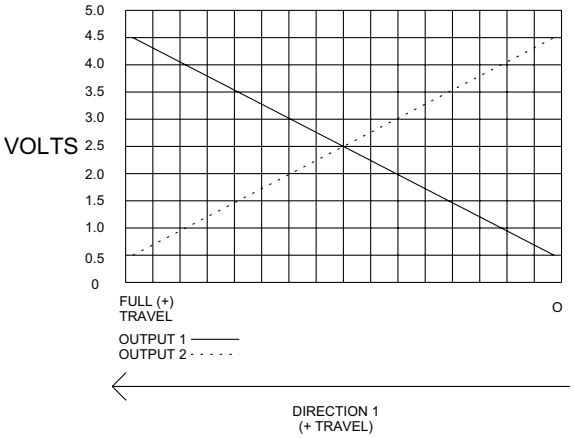
OPTION A



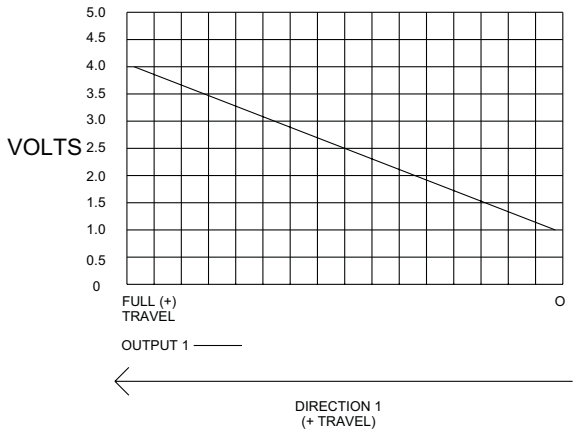
OPTION B



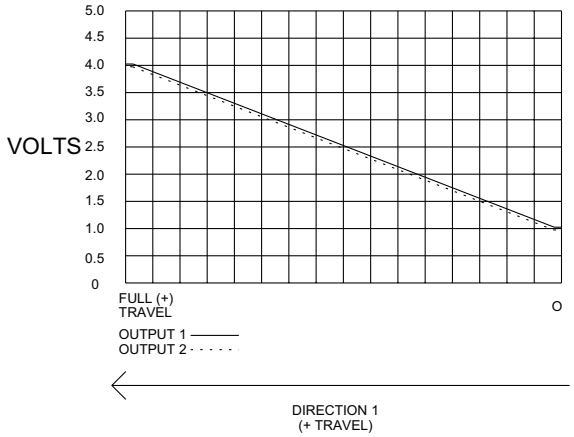
OPTION C



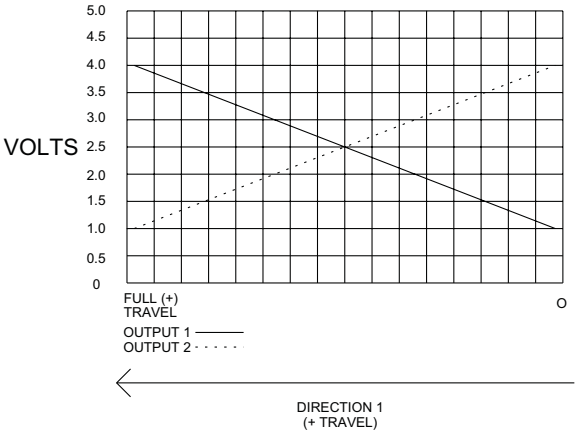
OPTION D



OPTION E



OPTION F



Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
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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.

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