MINI PROPORTIONAL OUTPUT THUMBWHEEL

SHORTER BEHIND PANEL DEPTH



The HTWM offers the same performance as the standard HTW Proportional Thumbwheel but with a much shorter behind panel depth, ideal for use in grip, armrest and panel applications. Available with eight output options, the HTWM offers a springreturn-to-center, single axis thumbwheel actuator that provides linear change in voltage output in either direction from center. Options include increasing or decreasing voltage output from the center position to the full travel position, and single or dual (redundant) outputs per axis. The HTWM offers snap-in style mounting and a three million cycle rotational life. The HTWM electronics are sealed to IP68S and have excellent EMI/RFI immunity.

Features:

- Shorter behind panel depth: 0.96" max.
- 8 output options
- Spring-return-to-center single axis actuator
- **Rocker switch style mounting**
- 3 million cycle rotational life
- **Electronics sealed to IP68S**
- **Excellent EMI/RFI immunity**
- **RoHS/WEEE/Reach compliant**

Standard Character	istics/Ra	atings:			
MECHANICAL:					
Mechanical Life: 3,000,0	000 full for	ward to full b	ack		
Max Allowable Radial Lo	ad: 30.0 ll	os.			
ELECTRICAL RATINGS:	Rated a	t Vcc = 5V @	25°C Load:	= 1mA (4.7KΩ)
Electrical		Units	Min	Тур	Max
Supply Voltage		VDC	4.5	5	5.5
Output Voltage Tolerance at Center @ 5V Vcc		VDC	-0.25	N/A	+0.25
Output Voltage Tolerance at Full Travel @ 5V Vcc		VDC	-0.25	N/A	+0.25
Supply Current Per Sensor		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				
Wires:	18 AWG				

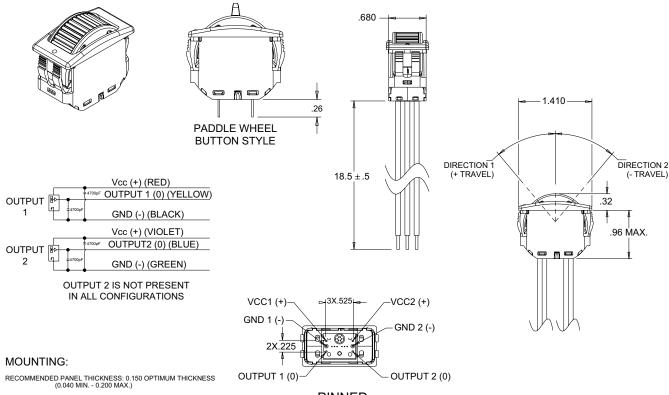
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SHORTER BEHIND PANEL DEPTH

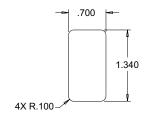
HTWM PART NUMBER CODE HTWM X X Output 2** Output 1* Travel **Operating Force Button Style** Termination **Bezel Color Button Color** 1. +/- 40° A. 2.5 +/- 2.0VDC NONE 1. 5.0 oz. 1. Knurled Wheel A. 18 AWG Wires, 1. Red **1**. Red 18.3" Long, **B.** 2.5 +/- 2.0VDC 2.5 +/- 2.0VDC 2. Black 2. Black 2. Paddle Wheel Stripped Ends C. 2.5 +/- 2.0VDC 2.5 -/+ 2.0VDC 3. Orange 3. Orange B. 0.025" SQ. Pins **D.** 2.5 +/- 1.5VDC NONE 4. Yellow 4. Yellow **E.** 2.5 +/- 1.5VDC 2.5 +/- 1.5VDC 5. Green 5. Green **F.** 2.5 +/- 1.5VDC 2.5 -/+ 1.5VDC 6. Blue 6. Blue **G.** 1.0 - 4.0VDC 1.0 - 4.0VDC 7. Violet 7. Violet H. 0.5 - 4.5VDC 0.5 - 4.5VDC 8. Gray 8. Gray 9. White 9. White

^{**} Options B and E provide redundant output 2 which duplicates output 1. Options C and F provide redundant output 2 which is inverse of output 1.

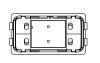


RECOMMENDED PANEL OPENING: 0.700 X 1.340 OPTIMUM (0.695/0.705 X 1.335/1.345)

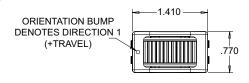
RECOMMENDED PANEL RADII: 0.100 OPTIMUM (0.090 - 0.110 MAX.)



PINNED TERMINATION NOT ALL PINS ARE PRESENT IN ALL OUTPUT CONFIGURATIONS

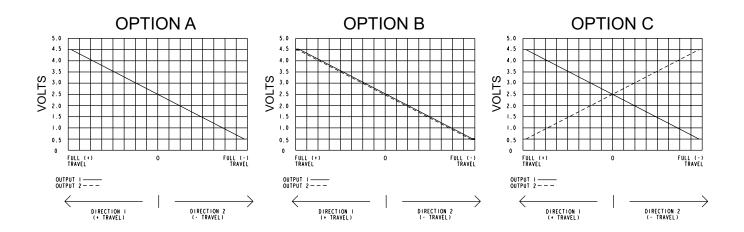


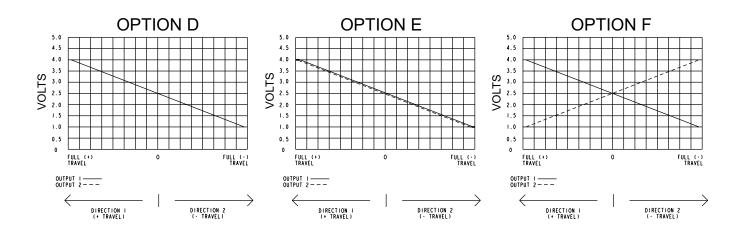
NOT ALL WIRES ARE PRESENT IN ALL OUTPUT CONFIGURATIONS

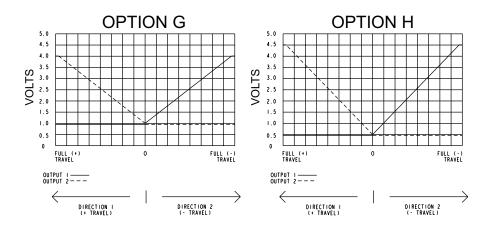


^{*} Outputs are from the center position to the full travel position in each direction. Options A–F provide increasing voltage in Direction 1 and decreasing voltage in Direction 2 from a single output. Options G and H provide increasing voltages in both directions from two separate outputs.

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