MINI PROPORTIONAL OUTPUT THUMBWHEEL

SHORTER BEHIND PANEL DEPTH

Wires:



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 Characteristics/Ratings: MECHANICAL: Mechanical Life: 3,000,000 full forward to full back Max Allowable Radial Load: 30.0 lbs. ELECTRICAL RATINGS: Rated at Vcc = 5V @ 25°C Load = 1mA (4.7KΩ) Electrical Units Min Typ Max Supply Voltage VDC 4.5 5 5.5 **Output Voltage Tolerance** VDC -0.25 N/A +0.25 at Center @ 5V Vcc Output Voltage Toleranceat VDC -0.25 N/A +0.25Full Travel @ 5V Vcc Supply Current Per Sensor N/A N/A 10 mΑ **ELECTRONICS**: Electronics IP68S Seal Integrity: **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 Withstand 100V/M 14Hz to 1GHz RFI: MATERIALS: Button: Thermoplastic Thermoplastic Bezel:

18 AWG

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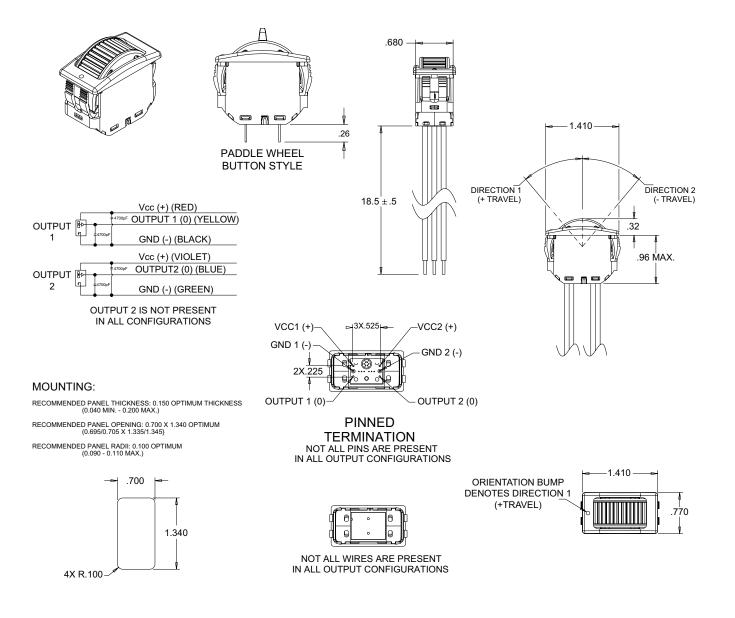
HTWM PART NUMBER CODE							
	HTWM – X	Х	Х	X X	Х	X	
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Travel	Output 1*	Output 2**	Operating Force	Button Style	Termination	Bezel Color	Button Color
1 . +/- 40°	A. 2.5 +/- 2.0VDC	NONE	1 . 5.0 oz.	1. Knurled Wheel	 A. 18 AWG Wires, 18.3" Long, Stripped Ends B. 0.025" SQ. Pins 	1 . Red	1 . Red
	B. 2.5 +/- 2.0VDC	2.5 +/- 2.0VDC		2. Paddle Wheel		2. Black	2. Black
	C. 2.5 +/- 2.0VDC	2.5 -/+ 2.0VDC				3. Orange	3. Orange
	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

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* 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.

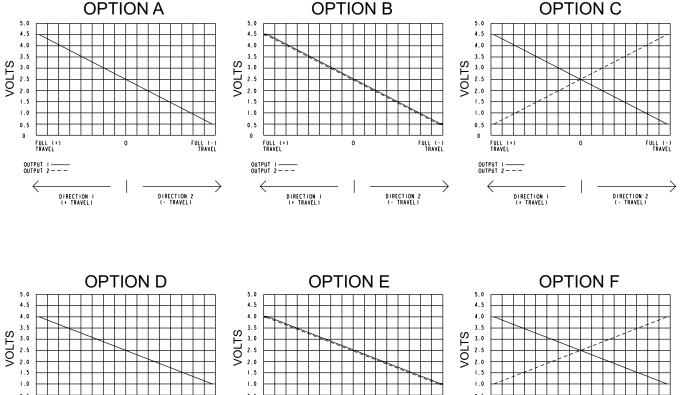
** Options B and E provide redundant output 2 which duplicates output 1. Options C and F provide redundant output 2 which is inverse of output 1.

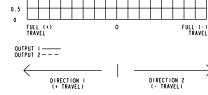


THUMBN

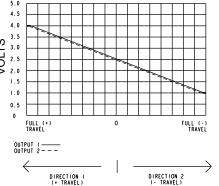
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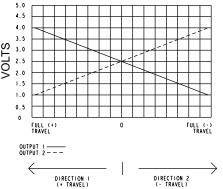
SHORTER BEHIND PANEL DEPTH

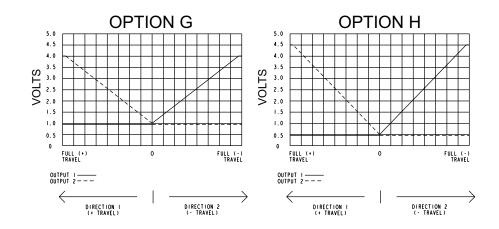




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OTTO: HTWM-1A12A22 HTWM-1C12A22 HTWM-1C11B22