## PROPORTIONAL OUTPUT THUMBWHEEL



#### 3 MILLION CYCLE ROTATIONAL LIFE



The HTW Hall Effect Proportional Output Thumbwheel is a selfcentering, single axis thumbwheel with an actuator that provides linear change in voltage output in either direction from the center. Available with eight output options, including increasing and decreasing voltage output from the center position to the full travel position and single or dual (redundant) outputs. The HTW snaps into a 1.47" x 0.710" panel opening with rocker switch style mounting. A durable switch providing 3 million cycle rotational life, sealed to IP68S and excellent EMI immunity per MIL-STD-46 ID/SAE J1113-22, and will withstand RFI of 100V/M 14Hz to 1GHz.

#### **Features:**

- **Eight output options**
- Self-centering single axis actuator
- Snaps into 1.47" x 0.710" panel opening
- Rocker switch style mounting
- 3 million cycle rotational life
- **Electronics sealed to IP68S**
- **Excellent EMI/RFI immunity**
- **Detent options available**
- **RoHS & WEEE compliant**

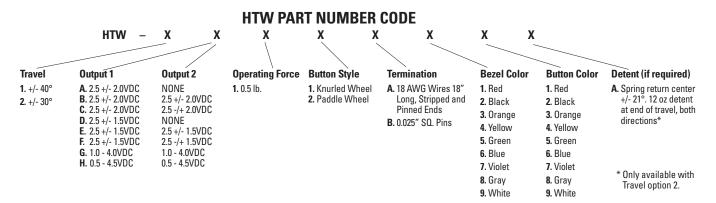
Standard Characteristics/Ratings:					
MECHANICAL:					
Mechanical Life: 3,000,000 full forward to full back					
Mechanical Detent Cycle	Life Per Dete	<b>nt</b> : 100,000 (d	etent @ +/- 2	21°, full travel	is +/- 30° max)
Max Allowable Radial Load: 30.0 lbs.					
Drop: 3 feet max to concrete					
ELECTRICAL RATINGS: Rated at 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 (see graph for output values)		VDC @ 5V Vcc	-0.15	N/A	+0.15
Output Voltage Tolerance at Center (for detent version A only)		VDC @ 5V Vcc	-0.25	N/A	+0.25
Output Voltage Tolerance Full Travel (see graph for output values)		VDC @ 5V Vcc	-0.25	N/A	+0.25
Supply Current Per Sensor		mA	N/A	N/A	10
Reverse Voltage Protection:		-5VDC max			
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:	Stainless steel				

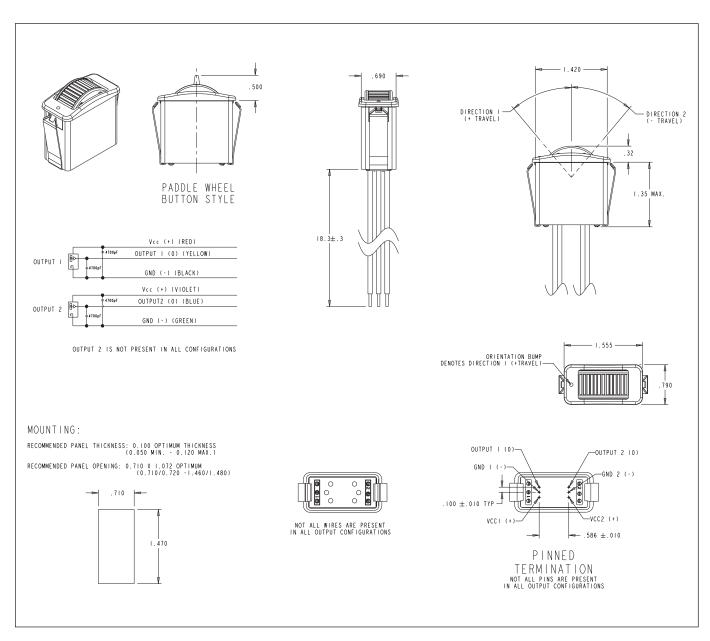
**Mounting Hardware:** 

None provided

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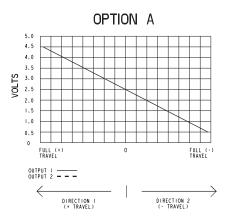


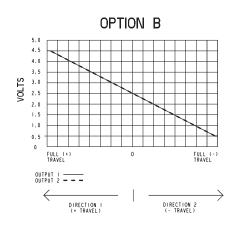


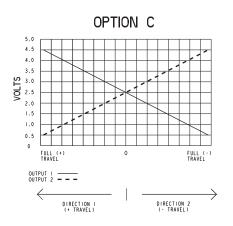
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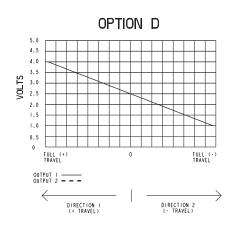


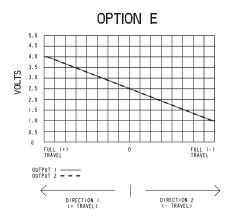
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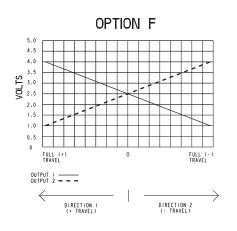


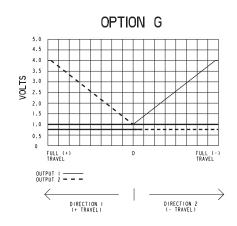


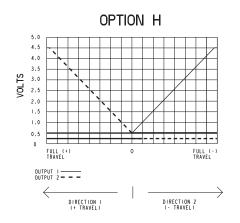












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### OTTO:

HTW-1A11B22 HTW-2C12B22 HTW-1F12A22