



Lever Style

The HPW series is available with eight output options. The HPW series offers a self-centering single axis actuator that provides linear change in voltage output in either direction from center. Options include increasing or decreasing voltage output in either direction from center position to the full travel position in either direction, and single or dual outputs in either direction. The HPW series provides a one million cycle full forward to full back life and the electronics are sealed to IP68S, all the while offering outstanding EMI/RFI immunity.

Features:

Paddle Style

- Designed for grip, armrest & panel mounting
- Proven contactless analog output Hall effect technology
- 8 output options available
- Self-centering, single axis actuator
- 1,000,000 mechanical life
- Electronics watertight to IP68S
- 100V/M EMI/RFI immunity
- RoHS/WEEE/Reach compliant

Standard Characteristics/Ratings:

MECHANICAL:					
Mechanical Life:	1,000,0	000 full forwa	rd to full ba	ick	
Travel:	Full tra	ivel angle ead	ch directior	n from center	to 25° typical
Operating Force:	4 oz ty	pical @ 25°			
Max Allowable Radial Load:	30.0 lb	s.			
ELECTRICAL RATINGS: 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	-0.25	N/A	+0.25
Output Voltage Tolerance at Full Travel (see graph for output values)		VDC @ 5V Vcc	-0.25	N/A	+0.25
Supply Current Options A & D (B = 0, Vcc = 5V, lo = 0)		mA	N/A	8	10
Supply Current All Other Options (B = 0, Vcc = 5V, lo = 0)		mA	N/A	16	20

ENVIRONMENTAL:

Operating Temp Range:	-40°C min to +85°C max
Humidity:	96% RH, 70°C, 96 hours
Vibration:	Per MIL-DTL-810F minimum integrity
Sand/Dust:	Per SAE J1455
Seal Integrity:	Electronics watertight per IP68S
EMI:	Withstand per MIL-STD-461D/SAE J1113-22
RFI:	Withstand 100 V/M, 14Hz to 1GHz

HPW PART NUMBER CODE HPW Х X X X Х Х Output 2** **Button Style** Output 1* **Operating Force** Termination **Bezel Color Button Color** A. 22 AWG 18.3" Long, 1. Paddle Style A. 2.5 +/- 2.0VDC NONE 1. Red 1.4.0 oz 1. Red Stripped Ends 2.5 +/- 2.0VDC **B.** 2.5 +/- 2.0VDC 2. Black 2. Black 2. Lever Style B. 0.025" SQ. Pins, Tin Plated **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. 05-45VDC 0.5 - 4.5VDC 8 Grav 8. Gray 9. White 9. White

> * 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.

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HD\

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