HPW HALL EFFECT PADDLE

HALL EFFECT SINGLE AXIS PADDLE

UP TO 5 MILLION CYCLE MECHANICAL LIFE, 14 OUTPUT OPTIONS





The HPW series, available with 14 output options, offers a selfcentering 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) with single or dual outputs in either direction. The HPW series without detent provides a five million cycle, full forward to full back life, and with detent (available with HPW-3) provides a two million cycle full forward to full back life. Electronics are sealed to IP68S, while offering outstanding EMI/RFI immunity.

Features:

- Designed for grip, armrest & panel mounting
- Proven contactless analog output Hall effect technology
- 14 output options available
- Self-centering, single axis actuator
- Up to 5,000,000 mechanical life
- Electronics sealed to IP68S
- RoHS compliant
- Optional soft touch coating available

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HPW-3 Lever Style #3 (Ergonomic Lever)

Standard Characteristics/Ratings:

MECHANICAL:								
Mechanical Life with Det	Up to 2,000,000 cycles full forward to full back							
Mechanical Life without	Up to 5,000,000 cycles full forward to full back							
Travel:	Full tra	vel angle each direction from center to 25° typical						
Operating Force:	HPW-1 is 4 oz typical @ 25°							
	HPW-2 and HPW-3 are 3 oz typical @ 25°							
Max Allowable Radial Lo	ad: 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 (A, B, C, D, E, F, G &	VDC @ 5V Vcc	-0.25	N/A	+0.25				
Output Voltage Tolerance at Center (J, K, L, M, N & P)	VDC @ 5V Vcc	-0.15	N/A	+0.15				
Output Voltage Tolerance at Full Travel (see graph for o	VDC @ 5V Vcc	-0.25	N/A	+0.25				
Supply Current Options A (B = 0, Vcc = 5V, lout = 0)	mA	N/A	8	10				
Supply Current All Other ((B = 0, Vcc = 5V, lout = 0)	mA	N/A	16	20				
ENVIRONMENTAL:								
Operating Temp Range:	-40°C to +85	5°C						
Electronic Enclosure:	IP68S							
Mechanical Enclosure:	Unsealed							
RFI/EMI:	Withstand per SAE J1113							

HPW PART NUMBER CODE

Button Style	Output 1*	Output 2**	Operating Force	Termination	Bezel Color	Button Color	Detent
1. Lever Style #1 (Paddle) 2 Lever Style #2 (Standard Lever) 3. Lever Style #3 (Ergonomic Lever)	A. 2.5 +/- 2.0VDC B. 2.5 +/- 2.0VDC C. 2.5 +/- 2.0VDC E. 2.5 +/- 1.5VDC E. 2.5 +/- 1.5VDC G. 1.0 -4.0VDC H. 0.5 - 4.5VDC J. 2.5 +/- 2.0VDC K. 2.5 +/- 2.0VDC L. 2.5 +/- 2.0VDC M. 2.5 +/- 1.5VDC P. 2.5 +/- 1.5VDC P. 2.5 +/- 1.5VDC	NONE 2.5 +/- 2.0VDC 2.5 -/+ 2.0VDC NONE 2.5 +/- 1.5VDC 1.0 - 4.0VDC 0.5 - 4.5VDC NONE*** 2.5 -/- 2.0VDC*** NONE*** 2.5 +/- 1.5VDC **** 2.5 -/- 1.5VDC ****	1.4 oz (HPW-1) 3 oz (HPW-2 and HPW-3) 2.5 oz (HPW-2 and HPW-3) Votre dl ALDERR indicate. Control. Conn * Outputs a voltage in increasin ** Options B output 2	A. 22 AWG 18.3" Long, Stripped Ends B. 0.025" S.O. Pins, Phosphor Bronze Alloy, Tin Plated Stributour officiel MDERS electronic GmbH A7906 Kergen - Alemagne ett. *33 e8004677 *33 e3308303 catherina starm@hadems.fr / www.aldems.fr Tre from the center position to the Direction 1 and decreasing volta g voltages in both directions from and E provide redundant output 1	1. Red 2. Black 3. Orange 4. Yellow 5. Green 6. Blue 7. Violet 8. Gray 9. White full travel position in ge in Direction 2 fro two separate outpu 2. which duplicates of	1. Red 2. Black 3. Orange 4. Yellow 5. Green 6. Blue 7. Violet 8. Gray 9. White n each direction. Op mm a single output. O uts.	N. None A. ±18° <u>OP HERE</u> for 1-1 and HPW-2 switches. A-F provide increasing ptions G and H provide and F provide redundant

*** Options J, K, L, M, N and P are identical to Options A, B, C, D, E and F respectively, except with a tighter center tolerance.

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