

MINIATURE HALL EFFECT JOYSTICK

COMPACT DESIGN



The JHT-00004 miniature series Hall Effect joystick's compact design and robust construction is the ideal solution where space is limited and precision control is required. Ideal applications include: robotics, construction equipment, hydraulic controls, medical and surgery equipment, security and video cameras. The JHT-00004 has been tested to 1 million cycles with no degradation of electrical performance or boot wear. Electronics are sealed to IP68S and the EMI/RFI withstand are per SAE J1113 specifications.

Features:

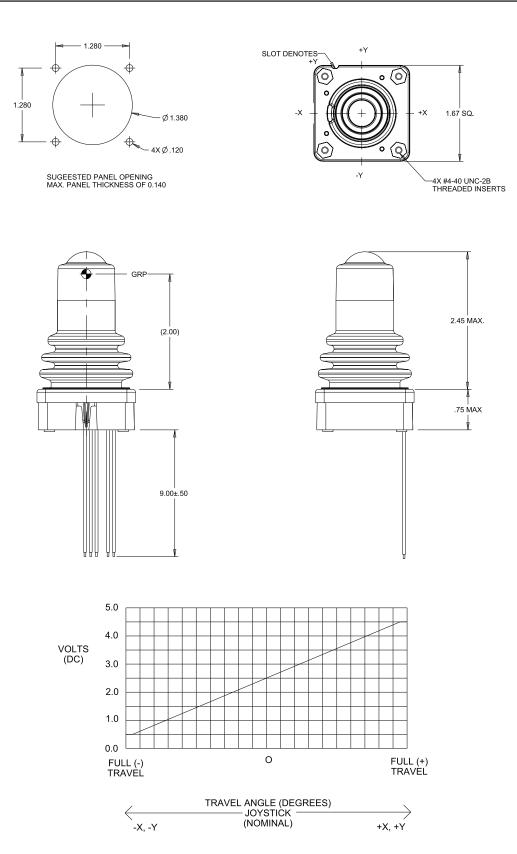
- Compact design excellent for armrest and panel mounting
- Proven contactless analog output Hall Effect technology
- 1 million operational cycles in all directions
- Electronics sealed per IP68S
- Dual axis available

Standard Characteristics/Ratings:						
GENERAL:						
	Hall Effect analog, factory programmed ground and supply line break detection; over voltage and reverse voltage protection					
Design: Co	Contactless sensing					
ELECTRICAL RATINGS: Vcc = 5V @ 20°C Load = 1mA (4–7K Ω)						
Electrical		Units	Min	Тур	Max	
Supply Voltage		VDC	4.5	5	5.5	
Output Voltage +Y, -Y, +X, -X 0° Deflection		VDC @ 5V Vcc	2.25	2.5	2.75	
Output at Full Travel -X, -Y Direction		VDC @ 5V Vcc	0.25	0.5	0.75	
Output at Full Travel +X, +Y Direction		VDC @ 5V Vcc	4.25	4.5	4.75	
Supply Current* (B = 0, Vcc = 5V, lo = 0		N/A	N/A	10	12	
Output Impedance		kΩ	N/A	1	N/A	
*Single output per axis. Dual axis per output available. Supply current 20mA typical.						
MECHANICAL:						
Mechanical Life:	1,000,000 c	1,000,000 cycles in all directions				
Travel Angle:	19° min to	19° min to 21° max, 20° typical				
Overtravel Angle:	0.5° min to	0.5° min to 1.5° max, 1° typical				
Operating Force:		With bellows, at grip 0.5 lb. min to 1.5 lbs. max over temperature range				
ENVIRONMENTAL:						
Operating Temp Rang	-40°C to +85°C					
Drop:	1 meter ma	1 meter max to concrete				
Seal:	Electronic	Electronics seal to IP68S				
RFI/EMI:	Withstand	Withstand per SAE J1113				
MATERIALS:						
Housing:	Thermopla	Thermoplastic, black				
Bellows:		Silicone, black. Additional materials available, contact factory.				
Wires:	24 AWG (1	24 AWG (19/36) per MIL-W-16878				



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Mouser Electronics

Authorized Distributor

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OTTO:

JHT-00004 JHT-00025 JHT-00032 JHT-00005 JHT-00020