SINGLE AXIS HALL EFFECT JOYSTICK WITH FRICTION HOLD



The JHS-F0001 is a single axis, friction hold joystick that was designed for the construction equipment and off-road vehicle market. The key feature of the JHS-F0001 joystick is that the lever does not return to center when released. Designed for use in applications where the output is used to control the speed or direction of the machine or mechanism, allowing the operator to set the speed of movement to focus on steering or other tasks. Favored for its compact size, strength and reliability, the JHS-F0001 is manufactured with non-contacting Hall effect sensors; the electronics are sealed to IP68S. It offers excellent resistance to RFI and EMI per SAE J1113; standard 0.5 to 4.5VDC proportional output and a mechanical life of 500,000 cycles.

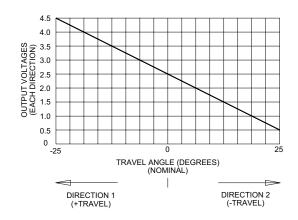
Features:

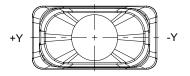
- Rugged compact design
- Hall effect contactless sensing
- **Electronics sealed to IP68S**
- **Excellent proportional control**
- **Outstanding EMI/RFI immunity**
- Redundant output available
- **RoHS/WEEE/Reach compliant**

Standard Characteristics/Ratings:					
ELECTRICAL RATINGS: Rated at 5V @ 20°C Load = 1ma (4.7kΩ)					
Electrical					
		Units	Min	Тур	Max
Supply Voltage		VDC	4.5	5	5.5
Output Tolerance at Full Travel Direction 1 (+ Travel)		VDC @ 5V Vcc	25	N/A	+.25
Output Tolerance at Full Travel Direction 2 (- Travel)		VDC @ 5V Vcc	25	N/A	+.25
Supply Current Per Sensor (B = 0, Vcc = 5V, lo = 0)		mA	N/A	N/A	10
ELECTRONICS:					
Seal Integrity:	eal Integrity: Electronics watertight per IP68S				
MECHANICAL:					
Mechanical Life:	500,000 cycles				
Travel Angle:	25° typical, 24° min to 26° max				
Operating Force:	3.5 lbs. typical, 2.0 lbs. min to 5.0 lbs. max				
ENVIRONMENTAL:					
Operating Temp Range:	-40°C to +85°C				
Humidity:	96% RH, 70°C, 96 hours				
Vibration:	Per MIL-810F min integrity				
RFI:	Withstand per SAE J1113				
EMI:	Withstand per SAE J1113				
MATERIALS:					
Basic Handle:	Polyphenylene Blend				
Housing:	Thermoplastic				
Bellows:	EPDM, black (typical)				
Cable:	3/22 AWG (19 strands of 34 AWG TSC) PVC/Polyurethane blend outer jacket				
Mounting Hardware:	10-24 x 3/4 carriage bolts, self-locking nuts				

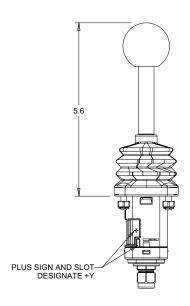
SINGLE AXIS JOYSTICK WITH FRICTION HOLD

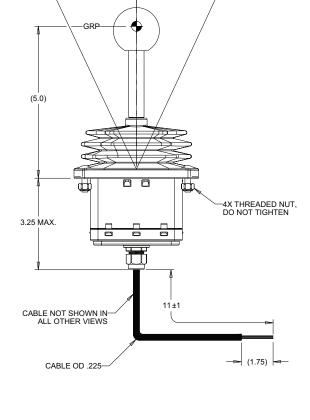
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+25° DIRECTION 1





-25° DIRECTION 2

