

# SINGLE AXIS JOYSTICK WITH FRICTION HOLD

## 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 immunity 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 compliant

### Standard Characteristics/Ratings:

**ELECTRICAL RATINGS:** Rated at 5V @ 20°C Load = 1ma (4.7kΩ)

Electrical				
	Units	Min	Typ	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, Io = 0)	mA	N/A	N/A	10

### ELECTRONICS:

**Seal Integrity:** Electronics watertight per IP68S

### MECHANICAL:

<b>Mechanical Life:</b>	500,000 cycles
<b>Travel Angle:</b>	25° typical, 24° min to 26° max
<b>Operating Force:</b>	3.5 lbs. typical, 2.0 lbs. min to 5.0 lbs. max

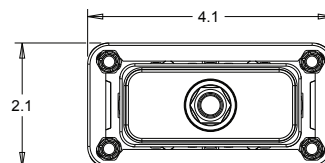
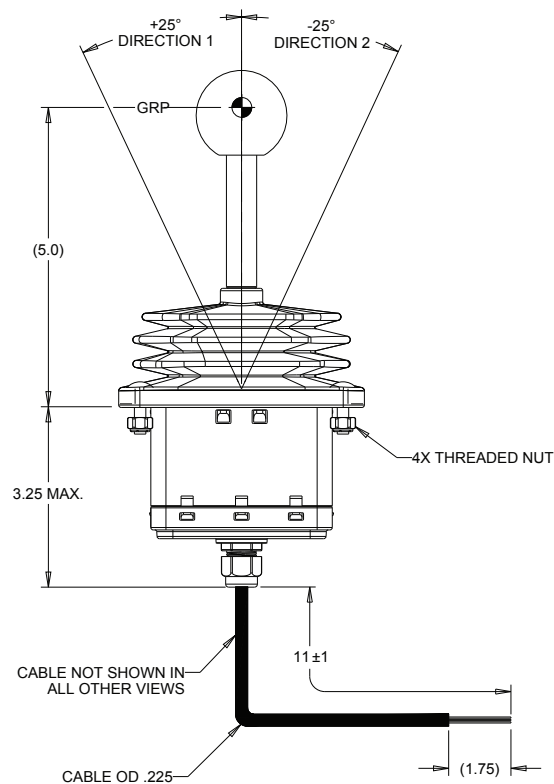
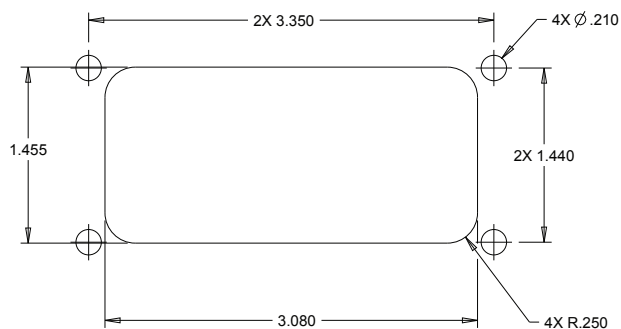
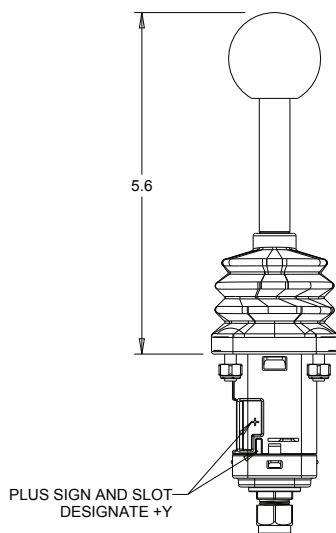
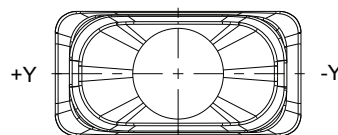
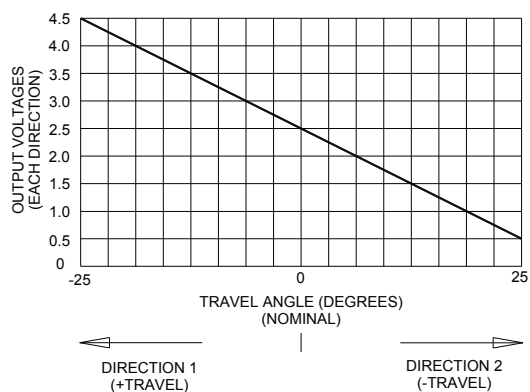
### ENVIRONMENTAL:

<b>Operating Temp Range:</b>	-40°C to +85°C
<b>Humidity:</b>	96% RH, 70°C, 96 hours
<b>Vibration:</b>	Per MIL-810F min integrity
<b>RFI:</b>	Withstand per SAE J1113
<b>EMI:</b>	Withstand per SAE J1113

### MATERIALS:

<b>Basic Handle:</b>	Polyphenylene Blend
<b>Housing:</b>	Thermoplastic
<b>Bellows:</b>	EPDM, black (typical)
<b>Cable:</b>	3/22 AWG (19 strands of 34 AWG TSC) PVC/Polyurethane blend outer jacket
<b>Mounting Hardware:</b>	10-24 x 3/4 carriage bolts, self-locking nuts

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