## **Features:**

- Adapts to a wide variety of shaft styles
- 15 million cycle life in all directions
- 300 lbs. static load strength at grip reference point (grp)
- Electronics sealed to IP68S
- Excellent EMI/RFI shielding
- Factory programmable pretravel & overtravel
- Analog, CANbus, USB & other custom output options available
- Redundant outputs available
- Fail safe & neutral indicator available
- Single and dual axis available
- Z axis available with universal grip only
- Programmable sensors
- 5V standard regulator available to accommodate a 9-32VDC power supply
- Various output configurations
- Available with a variety of grip & switch options
- RoHS/WEEE/Reach compliant



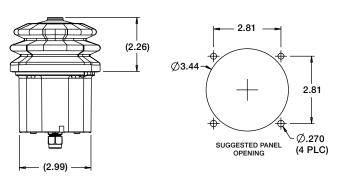
JH Joystick Shown with OTTO Medium Universal Grip, K1 Rockers and P3 Pushbutton Switches

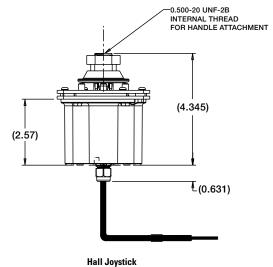
## HALL EFFECT TECHNOLOGY JOYSTICK

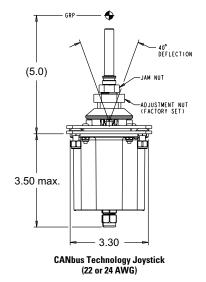
Standard Character	istics/Rati	nas:			
GENERAL:					
Sensor Type:	Hall effect analog, 1 or 2 outputs per axis				
Design:	Dual magnet				
ELECTRICAL RATINGS:	Rated at 5V	/ @ 20°C Lo	oad = 1ma (4	.7kΩ)	
Electrical		Units	Min	Тур	Max
Output Voltage 0° to 2° Tolerance at Center	Deflection @ 5V Vcc	VDC	-0.15	N/A	+0.15
Output Voltage 19° to 20° Tolerance at Full Load	Deflection @ 5V Vcc	VDC	-0.15	N/A	+0.15
Supply Current Per Sens	or	mA	N/A	N/A	10
Output Source Current L	imit	mA	-1	N/A	1
MECHANICAL:					
Mechanical Life:	5,000,000 min. up to 15,000,000 in all directions depending on configuration				
Travel Angle:	20° typical				
Operating Force:	With bellows, 20°C to 85°C at grip, 1 lbs. min to 7 lbs. max With bellows, -40°C at grip, 13.0 lbs. min to 18.0 lbs. max				
ENVIRONMENTAL:					
Operating Temp Range:	-40°C to +85°C				
Humidity:	96% RH, 70°C, 96 hours				
Vibration:	10g, 10Hz to 2KHz swept sinusoidal				
Electronics:	Sealed to IP68S				
EMI/RFI:	Withstand per SAE J1113 (typical), contact factory for details				
Sand/Dust:	Without bellows, withstand per SAE J1455				
MATERIALS:					
Housing:	Polyester				
Bellows:	EPDM, blad	ck			

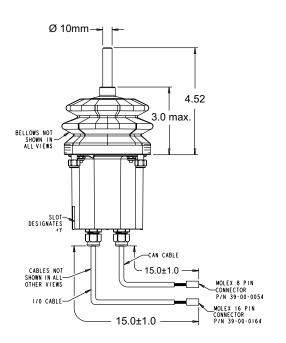
22 AWG (19 strands of 34 AWG TSC)

1/4-20 x 3/4 carriage bolts, self-locking nuts









Cable:

**Mounting Hardware:**