MINI JOYSTICK

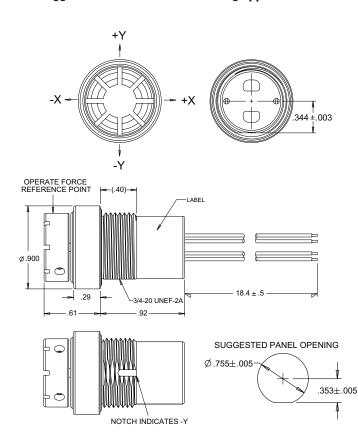
The J4 Hall effect transducer, like a strain gauge based transducer, converts an input force to a linear output voltage. However, the J4 is a cost effective alternative to a strain gauge type transducer. The J4 construction is rugged enough for the most demanding applications.

The J4's shorter travel offers the benefit of minimal movement required for analog voltage output change. In addition, the J4 offers the benefit of a higher output voltage than a traditional strain gauge based transducer with the same input voltage.

The J4 can be used for applications such as cursor control, target acquisition or any place precise input control is required. The J4's short behind panel depth means it can be used in an OTTO grip or can be panel mounted.

Features:

- A cost effective alternative to strain gauge based technology
- Mini joystick function
- **5V DC** input
- **Proven Hall effect technology**
- Magnetic shielding in case offers excellent external **EMI** protection
- Rugged construction for demanding applications





	stics/Ratir	igs:					
ELECTRICAL RATINGS:							
Rated at Vcc = 5V, Load	I = 1mA (4.7K	Ω)					
Electrical		Units	Min	Тур	Max		
Supply Voltage		VDC	4.50	5.00	5.50		
Output Voltage, +Y,-Y,+X 0° Deflection:	,-X	VDC @ 5V Vcc	2.40	2.50	2.60		
Output at Full Travel -X,-Y Direction:		VDC @ 5V Vcc	1.35	1.50	1.65		
Output at Full Travel +X,+Y Direction:		VDC @ 5V Vcc	3.35	3.50	3.65		
Null Temperature Coeffice 25°C to -20°C	cient:	+/005V per degree C max					
Null Temperature Coeffice 25°C to 71°C	ull Temperature Coefficient: °C to 71°C			+/001V per degree C max			
Supply Current B=0, Vcc=5V, Io=0:		mA	N/A	20	24		
Output Impedance:		kΩ	N/A	1.0	N/A		
MECHANICAL RATING	S:						
Mechanical Life All Directions		250,000 cycles					
Mechanical		Units	Min	Тур	Max		
Operating Force (w/ Boot) at Top of Button @ 20° C:		LBS	N/A	3.0	3.1		
Max Allowable Vertical Force on Button:		LBS	N/A	N/A	10		
Max Allowable Radial		LBS	N/A	N/A	5		
Force on Top of Knob:							
Force on Top of Knob: ENVIRONMENTAL:							
·		°C	-20	20	71		
ENVIRONMENTAL:	esign:			20 Ind watertigh	* *		
ENVIRONMENTAL: Operating Temperature:	esign:		Dusttight a	nd watertigh	* *		
ENVIRONMENTAL: Operating Temperature: Electronics Enclosure D	esign:	ISO 20653,	Dusttight a	nd watertigh	* *		
ENVIRONMENTAL: Operating Temperature: Electronics Enclosure D Drop:	esign:	ISO 20653, 1 meter ma	Dusttight a x to concr	nd watertigh	* *		
ENVIRONMENTAL: Operating Temperature: Electronics Enclosure D Drop: EMI Withstand:		ISO 20653, 1 meter ma Per ISO 114	Dusttight a x to concr 152 152-8 15Hz	nd watertigh ete -100kHz	* *		
ENVIRONMENTAL: Operating Temperature: Electronics Enclosure D Drop: EMI Withstand: RFI Withstand:		ISO 20653, 1 meter ma Per ISO 114 Per ISO 114	Dusttight a x to concr 152 152-8 15Hz	nd watertigh ete -100kHz	* *		
ENVIRONMENTAL: Operating Temperature: Electronics Enclosure D Drop: EMI Withstand: RFI Withstand: DC Magnetic Field With		ISO 20653, 1 meter ma Per ISO 114 Per ISO 114 3000 A/m p	Dusttight a x to concr 152 152-8 15Hz	nd watertigh ete -100kHz	* *		
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