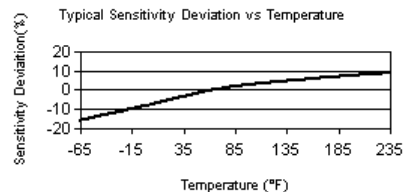


Model Number VO622A11	HIGH FREQUENCY INDUSTRIAL ICP® VELOCITY SENSOR			Revision E ECN #: 29718
Performance	ENGLISH	SI		Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Sensitivity (±10 %)	100 mV/in/sec	3937 mV/m/sec	[2]	CS - Canadian Standards Association Approved Intrinsically Safe
Measurement Range	±50 in/sec	±1.27 m/sec		Hazardous Area Approval
Frequency Range (±10 %)	240 to 270000 cpm	4 to 4500 Hz	[3][4]	CI I, Div I, Groups A, B, C, D; CI II, Div I, Groups E, F, G; CI III, Div I
Frequency Range (±3 dB)	180 to 540000 cpm	3 to 9000 Hz		Exia IIC T4, AExia IIC, T4
Resonant Frequency	1200 kcpm	20 kHz	[1]	CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4
Broadband Resolution (1 to 10000 Hz)	450 µin/sec	11.4 µm/sec	[1]	CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4
Non-Linearity	±1 %	±1 %	[5]	
Transverse Sensitivity	≤5 %	≤5 %		
Environmental				EX - Hazardous Area Approval- contact factory for specific approvals
Overload Limit (Shock)	5000 g pk	49050 m/s² pk		Hazardous Area Approval
Temperature Range	-65 to +250 °F	-54 to +121 °C		EEx ia IIC T4, - 54°C≤Ta≤121°C, II 1 G
Electrical				
Settling Time (within 1% of bias)	≤30 sec	≤30 sec		M - Metric Mount
Excitation Voltage	18 to 28 VDC	18 to 28 VDC		Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1
Constant Current Excitation	2 to 10 mA	2 to 10 mA		TO - Temperature Output
Output Impedance	<100 Ohm	<100 Ohm		Temperature Output Range
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC		Temperature Scale Factor
Spectral Noise (10 Hz)	40 µin/sec/√Hz	1.12 µm/sec/√Hz	[1]	Electrical Connector
Spectral Noise (100 Hz)	7.0 µin/sec/√Hz	0.18 µm/sec/√Hz	[1]	Electrical Connections (Pin A)
Spectral Noise (1 kHz)	0.4 µin/sec/√Hz	0.01 µm/sec/√Hz	[1]	Acceleration Output
Electrical Protection	RFI/ESD	RFI/ESD		Ground
Electrical Isolation	>10 ⁸ Ohm	>10 ⁸ Ohm		Temperature Output
Physical				
Size (Hex x Height)	7/8 in x 4.3 in	22 mm x 109 mm		
Weight	3.3 oz	94 gm		
Mounting Thread	1/4-28 Female	1/4-28 Female	[6]	
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm		
Sensing Element	Ceramic	Ceramic		
Sensing Geometry	Shear	Shear		
Housing Material	Stainless Steel	Stainless Steel		
Sealing	Welded Hermetic	Welded Hermetic		
Cable Length	10 ft	3 m		
Cable Type	Polyurethane	Polyurethane	[7]	



All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.
ICP® is a registered trademark of PCB group, Inc.

Notes

- [1] Typical.
- [2] Conversion Factor 1g = 9.81 m/s².
- [3] 1Hz = 60 cpm (cycles per minute).
- [4] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [5] Zero-based, least-squares, straight line method.
- [6] 1/4-28 has no equivalent in S.I. units.
- [7] Twisted shielded pair.
- [8] See PCB Declaration of Conformance PS023 for details.

Supplied Accessories

081A40 Mounting Stud (1)
ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)

Entered: LLH	Engineer: JEC	Sales: NJF	Approved: LLH	Spec Number:
Date: 11/21/2008	Date: 11/07/2008	Date: 11/07/2008	Date: 11/21/2008	12856



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