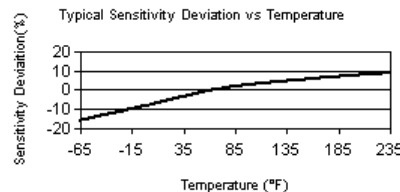


Model Number VO622A01	HIGH FREQUENCY INDUSTRIAL ICP® VELOCITY SENSOR			Revision F ECN #: 29718
Performance	ENGLISH	SI		Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Sensitivity (±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		CI I, Div I, Groups A, B, C, D; CI II, Div I, Groups E, F, G; CI III, Div I
Resonant Frequency	1200 kcpm	20 kHz	[1]	Exia IIC T4, AExia 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]	CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4
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				EEx ia IIC T4, - 54°C≤Ta≤121°C, II 1 G
Settling Time (within 1% of bias)	≤30 sec	≤30 sec		
Excitation Voltage	18 to 28 VDC	18 to 28 VDC		M - Metric Mount
Constant Current Excitation	2 to 10 mA	2 to 10 mA		Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1
Output Impedance	<100 Ohm	<100 Ohm		Notes
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC		[1] Typical.
Spectral Noise (10 Hz)	40 µin/sec/√Hz	1.12 µm/sec/√Hz	[1]	[2] Conversion Factor 1g = 9.81 m/s².
Spectral Noise (100 Hz)	7.0 µin/sec/√Hz	0.18 µm/sec/√Hz	[1]	[3] 1Hz = 60 cpm (cycles per minute).
Spectral Noise (1 kHz)	0.4 µin/sec/√Hz	0.01 µm/sec/√Hz	[1]	[4] The high frequency tolerance is accurate within ±10% of the specified frequency.
Electrical Protection	RFI/ESD	RFI/ESD		[5] Zero-based, least-squares, straight line method.
Electrical Isolation	>10 ⁸ Ohm	>10 ⁸ Ohm		[6] 1/4-28 has no equivalent in S.I. units.
Physical				[7] See PCB Declaration of Conformance PS023 for details.
Size (Hex x Height)	7/8 in x 2.06 in	22 mm x 52.3 mm		
Weight	3.3 oz	94 gm		Supplied Accessories
Mounting Thread	1/4-28 Female	1/4-28 Female	[6]	081A40 Mounting Stud (1)
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm		ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)
Sensing Element	Ceramic	Ceramic		
Sensing Geometry	Shear	Shear		
Housing Material	Stainless Steel	Stainless Steel		
Sealing	Welded Hermetic	Welded Hermetic		
Electrical Connector	MIL-C-5015	MIL-C-5015		
Electrical Connection Position	Top	Top		



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.



3425 Walden Avenue
Depew, NY 14043
UNITED STATES
Phone: 716-684-0003
Fax: 716-684-3823
E-mail: imi@pcb.com
Web site: www.imi-sensors.com

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	10163

--	--