

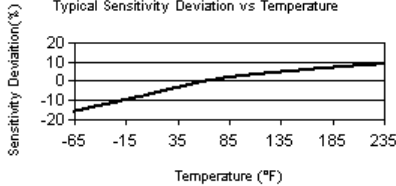



Model Number VO622A01	HIGH FREQUENCY INDUSTRIAL ICP® VELOCITY SENSOR			Revision G ECN #: 30750								
<b>Performance</b> Sensitivity (±10 %) Measurement Range Frequency Range (±10 %) Frequency Range (±3 dB) Resonant Frequency Broadband Resolution (1 to 10000 Hz) Non-Linearity Transverse Sensitivity	<b>ENGLISH</b> 100 mV/in/sec ±50 in/sec 240 to 270000 cpm 180 to 540000 cpm 1200 kcpm 450 µin/sec ±1 % ≤5 %	<b>SI</b> 3937 mV/m/sec ±1.27 m/sec 4 to 4500 Hz 3 to 9000 Hz 20 kHz 11.4 µm/sec ±1 % ≤5 %	[2] [3][4] [1] [1] [5]	<b>Optional Versions</b> (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) <b>CS</b> - Canadian Standards Association Approved Intrinsically Safe Hazardous Area Approval CI I, Div I, Groups A, B, C, D; CI II, Div I, Groups E, F, G; CI III, Div I Hazardous Area Approval Exia IIC T4, AExia IIC, T4 Hazardous Area Approval CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4 <b>EX</b> - Hazardous Area Approval- contact factory for specific approvals Hazardous Area Approval EEx ia IIC T4, - 54°C≤Ta≤121°C, II 1 G EEx ia IIC T4, - 54°C≤Ta≤121°C, II 1 G <b>M</b> - Metric Mount Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1 <b>Notes</b> [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] See PCB Declaration of Conformance PS023 or PS061 for details.  <b>Supplied Accessories</b> 081A40 Mounting Stud (1) ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)								
<b>Environmental</b> Overload Limit (Shock) Temperature Range <b>Electrical</b> Settling Time (within 1% of bias) Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (100 Hz) Spectral Noise (1 kHz) Electrical Protection Electrical Isolation	5000 g pk -65 to +250 °F ≤30 sec 18 to 28 VDC 2 to 10 mA <100 Ohm 8 to 12 VDC 40 µin/sec/√Hz 7.0 µin/sec/√Hz 0.4 µin/sec/√Hz RFI/ESD >10 <sup>8</sup> Ohm	49050 m/s² pk -54 to +121 °C ≤30 sec 18 to 28 VDC 2 to 10 mA <100 Ohm 8 to 12 VDC 1.12 µm/sec/√Hz 0.18 µm/sec/√Hz 0.01 µm/sec/√Hz RFI/ESD >10 <sup>8</sup> Ohm	[1] [1] [1]									
<b>Physical</b> Size (Hex x Height) Weight Mounting Thread Mounting Torque Sensing Element Sensing Geometry Housing Material Sealing Electrical Connector Electrical Connection Position	7/8 in x 2.06 in 3.3 oz 1/4-28 Female 2 to 5 ft-lb Ceramic Shear Stainless Steel Welded Hermetic 2-Pin MIL-C-5015 Top	22 mm x 52.3 mm 94 gm 1/4-28 Female 2.7 to 6.8 Nm Ceramic Shear Stainless Steel Welded Hermetic 2-Pin MIL-C-5015 Top	[6]									
 [7]   <i>All specifications are at room temperature unless otherwise specified.</i> 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.	 <p>Typical Sensitivity Deviation vs Temperature</p> <p>The graph shows Sensitivity Deviation (%) on the y-axis (ranging from -20 to 20) versus Temperature (°F) on the x-axis (ranging from -65 to 235). The curve shows a positive linear trend, starting at approximately -10% at -65°F and reaching about 10% at 235°F.</p>			<table border="1" data-bbox="1129 1105 2011 1179"> <tr> <td>Entered: JEC</td> <td>Engineer: NJF</td> <td></td> <td>Spec Number:</td> </tr> <tr> <td>Date: 05/18/2009</td> <td>Date: 11/07/2008</td> <td></td> <td>10163</td> </tr> </table>  <p>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</p>	Entered: JEC	Engineer: NJF		Spec Number:	Date: 05/18/2009	Date: 11/07/2008		10163
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