



Model Number 641B01	4-20 MA OUTPUT VELOCITY SENSOR			Revision C ECN #: 24962										
Performance Measurement Range Output Frequency Range (±10 %) Broadband Resolution Non-Linearity	ENGLISH 0.0 to 1 in/sec rms 4-20 mA 600 to 60000 cpm 0.005 in/sec rms ±1 %	SI 0.0 to 25.4 mm/s rms 4-20 mA 10 to 1 kHz 0.13 mm/s rms ±1 %	[1] [2][3] [4]	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) EX - Hazardous Area Approval- contact factory for specific approvals Hazardous Area Approval Hazardous Area Approval Hazardous Area Approval Hazardous Area Approval										
Environmental Temperature Range	-40 to 185 °F	-40 to 85 °C	DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4 EEx ia IIC T4, - 40°C≤Ta≤80°C, II 1 G EEx nL IIC T4, - 40°C≤Ta≤80°C, II 3 G DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4 DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4 EEx ia IIC T4, - 40°C≤Ta≤80°C, II 1 G EEx nL IIC T4, - 40°C≤Ta≤80°C, II 3 G DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4											
Electrical Excitation Voltage Settling Time (within 2% of value) Electrical Isolation (Case)	12 to 30 VDC <15 sec >10 ⁸ Ohm	12 to 30 VDC <15 sec >10 ⁸ Ohm	M - Metric Mount Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1 replaces Model 081A40 RV - Buffered Analog Signal Output - 100 mV/g (±20%) Electrical Connector Electrical Connections (Pin A) Electrical Connections (Pin B) Electrical Connections (Pin C)											
Physical Size (Hex x Height) Weight Mounting Thread Mounting Torque Sensing Element Sensing Geometry Housing Material Sealing Electrical Connector Electrical Connection Position Electrical Connections (Pin A) Electrical Connections (Pin B)	1.0 in x 2.6 in 4.7 oz 1/4-28 UNF 3 to 5 ft-lb Ceramic Shear Stainless Steel Welded Hermetic 2-Pin MIL-C-5015 Top 4-20 mA Pos (+) 4-20 mA Neg (-)	25.4 mm x 66 mm 131 gm No Metric Equivalent 4 to 7 Nm Ceramic Shear Stainless Steel Welded Hermetic 2-Pin MIL-C-5015 Top 4-20 mA Pos (+) 4-20 mA Neg (-)	Notes [1] Conversion Factor 1 in/sec = 0.0254 m/sec. [2] 1Hz = 60 cpm (cycles per minute). [3] Current will fluctuate at frequencies below 5 Hz. [4] Typical. [5] See PCB Declaration of Conformance PS039 or PS053 for details.											
 <p>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.</p>				Supplied Accessories 081A40 Mounting Stud (1) ICS-4 NIST-traceable single-axis amplitude response calibration from 0 cpm (0 Hz) to upper 10% frequency for 4 - 20 mA output vibration sensor (1)										
<table border="1"> <tr> <td>Entered: NJF</td> <td></td> <td></td> <td></td> <td>Spec Number:</td> </tr> <tr> <td>Date: 09/22/2006</td> <td></td> <td></td> <td></td> <td>27319</td> </tr> </table>				Entered: NJF				Spec Number:	Date: 09/22/2006				27319	
Entered: NJF				Spec Number:										
Date: 09/22/2006				27319										
				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										