

Model Number 640B12		LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR		Revision: B ECN #: 24962											
Performance		ENGLISH		SI											
Measurement Range		0.0 to 2 in/s pk		0.0 to 50.8 mm/s pk [1]											
Output		4-20 mA		4-20 mA											
Frequency Range (± 10 %)		180 to 60,000 cpm		3 to 1 kHz [2][3]											
Broadband Resolution		0.01 in/s pk		0.26 mm/s pk [4]											
Non-Linearity		± 1 %		± 1 %											
Environmental															
Temperature Range		-40 to 185 °F		-40 to 85 °C											
Electrical															
Excitation Voltage		12 to 30 VDC		12 to 30 VDC											
Settling Time (within 2% of value)		<15 sec		<15 sec											
Electrical Isolation (Case)		>10 ⁸		>10 ⁸											
Physical															
Size (Hex x Height)		1.0 in x 4.2 in		25.4 mm x 107 mm											
Weight (without cable)		4.7 oz		131 gm											
Mounting Thread		1/4-28 UNF		Not Applicable											
Mounting Torque		3 to 5 ft-lb		4 to 7 N-m											
Sensing Element		Ceramic		Ceramic											
Sensing Geometry		Shear		Shear											
Housing Material		Stainless Steel		Stainless Steel											
Sealing		Welded Hermetic		Welded Hermetic											
Electrical Connector		Integral Cable		Integral Cable											
Electrical Connection Position		Top		Top											
Electrical Connections (Red)		4-20 mA Pos (+)		4-20 mA Pos (+)											
Electrical Connections (Blue)		4-20 mA Neg (-)		4-20 mA Neg (-)											
Cable Length		10 ft		3.0 m											
Cable Type		Polyurethane		Polyurethane											
 [5]  C  US 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.															
OPTIONAL VERSIONS Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. EX - ATEX or ATEX and CSA Hazardous Area Approval Hazardous Area Approval EEx ia IIC T4, -40°CsTas80°C, II 1 G Hazardous Area Approval EEx nL IIC T4, -40°CsTas80°C, II 3 G Hazardous Area Approval DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4 Hazardous Area Approval DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4 M - Metric Mount Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40 RV - Buffered Analog Signal Output - 100 mV/g (±20%) Electrical Connector Integral Cable Electrical Connections (Red) 4-20 mA Pos (+) Electrical Connections (Black) 4-20 mA Neg (-) Electrical Connections (White) Signal Output Pos Electrical Connections (Green) Signal Output Neg NOTES: [1] Conversion Factor 1 in/sec = 0.0254 m/sec. [2] Current will fluctuate at frequencies below 5 Hz. [3] 1Hz = 60 cpm (cycles per minute). [4] Typical. [5] See PCB Declaration of Conformance PS039 or PS053 for details. SUPPLIED ACCESSORIES: Model 081A40 Mounting Stud (1) Model 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><tr><td>Entered: </td><td>Engineer: </td><td>Sales: </td><td>Approved: </td><td>Spec Number:</td></tr><tr><td>Date: 4-22-06</td><td>Date: 4/22/06</td><td>Date: 4/22/06</td><td>Date: 4/26/06</td><td>27450</td></tr></table>  IMI SENSORS A PCB PIEZOTRONICS DIV. 3425 Walden Avenue, Depew, NY 14043 Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.com						Entered: 	Engineer: 	Sales: 	Approved: 	Spec Number:	Date: 4-22-06	Date: 4/22/06	Date: 4/22/06	Date: 4/26/06	27450
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