





Model Number TO640B32	LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR				Revision: B ECN #: 29896										
Performance Measurement Range(Vibration) 0.0 to 2.0 in/sec pk Measurement Range(Temperature) -40 to 257 °F Output 4-20 mA Frequency Range(± 10 %) 180 to 60,000 cpm Broadband Resolution 0.01 in/sec pk Non-Linearity 1 %		ENGLISH 0.0 to 2.0 in/sec pk -40 to 257 °F 4-20 mA 180 to 60,000 cpm 0.01 in/sec pk 1 %		SI 0.0 to 50.8 mm/s pk -40 to 125 °C 4-20 mA 3 to 1 kHz 0.26 mm/s pk 1 %											
Environmental Temperature Range -40 to 185 °F		-40 to 85 °C		[1]											
Electrical Excitation Voltage 12 to 30 VDC Settling Time <15 sec Electrical Isolation(Case) >10 ⁸ ohm		12 to 30 VDC <15 sec >10 ⁸ ohm		[1]											
Physical Size (Hex x Height) 1.00 in x 2.60 in Weight 4.7 oz Mounting Thread 1/4-28 UNF Mounting Torque 3 to 5 ft-lb Sensing Element Ceramic Sensing Geometry Shear Housing Material Stainless Steel Sealing Welded Hermetic Electrical Connector 4-Pin Bayonet		25.4 mm x 66.0 mm 131 gm Not Applicable 4 to 7 N-m Ceramic Shear Stainless Steel Welded Hermetic 4-Pin Bayonet		[2] [1] [3][4] [5]											
Electrical Connection Position Top Electrical Connections(Pin A) Vibration, 4-20 mA Pos. Electrical Connections(Pin B) Vibration, 4-20 mA Neg. Electrical Connections(Pin C) Temperature, 4-20 mA Pos. Electrical Connections(Pin D) Temperature, 4-20 mA Neg.		Top Vibration, 4-20 mA Pos. Vibration, 4-20 mA Neg. Temperature, 4-20 mA Pos. Temperature, 4-20 mA Neg.		[1]											
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, CSA, or ATEX and CSA Hazardous Area Approval Hazardous Area Approval EEx ia IIC T4, -40°C≤T _a ≤80°C, EEx ia IIC T4, -40°C≤T _a ≤80°C, II 1 G Hazardous Area Approval EEx nL IIC T4, -40°C≤T _a ≤80°C, EEx nL IIC T4, -40°C≤T _a ≤80°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															
NOTES: [1] Vibration 4-20mA output accuracy is limited to 185°F (85°C) [2] Conversion Factor 1 in/sec = 0.0254 m/sec. [3] 1Hz = 60 cpm (cycles per minute). [4] Current will fluctuate at frequencies below 5 Hz. [5] Typical value. [6] 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															
<table border="1"> <tr> <td>Entered: <i>JH</i></td> <td>Engineer: <i>DJO</i></td> <td>Sales: <i>EJY</i></td> <td>Approved: <i>EB</i></td> <td>Spec Number:</td> </tr> <tr> <td>Date: <i>12-30-08</i></td> <td>Date: <i>12-29-08</i></td> <td>Date: <i>12-29-08</i></td> <td>Date: <i>12-30-08</i></td> <td>31987</td> </tr> </table>						Entered: <i>JH</i>	Engineer: <i>DJO</i>	Sales: <i>EJY</i>	Approved: <i>EB</i>	Spec Number:	Date: <i>12-30-08</i>	Date: <i>12-29-08</i>	Date: <i>12-29-08</i>	Date: <i>12-30-08</i>	31987
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<div style="display: flex; justify-content: space-between;"> <div>  [6]   <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> </div> <div>  <p>IMI SENSORS A PCB PIEZOTRONICS DIV. 3425 Walden Avenue, Depew, NY 14043</p> </div> <div> <p>Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.com</p> </div> </div>															