



Model Number 648A11	LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR			Revision NR ECN #:										
Performance Measurement Range Output Frequency Range (±10 %) Broadband Resolution Non-Linearity	ENGLISH 0.0 to 10 g rms 4-20 mA 180 to 300000 cpm 0.05 g rms ±1 %	SI 0.0 to 98.1 m/s ² rms 4-20 mA 3 to 5 kHz 0.49 m/s ² 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										
Environmental Temperature Range	-40 to 185 °F	-40 to 85 °C		Hazardous Area Approval Hazardous Area Approval Hazardous Area Approval Hazardous Area Approval										
Electrical Excitation Voltage Load Resistance Settling Time (within 2% of value) Electrical Isolation (Case)	12 to 30 VDC 50 (Vs-12) Ohm <15 sec >10 ⁸ Ohm	12 to 30 VDC 50 (Vs-12) Ohm <15 sec >10 ⁸ Ohm		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										
Physical Size (Hex x Height) Weight Mounting Thread Mounting Torque Sensing Element Sensing Geometry Housing Material Sealing Electrical Connector Electrical Connection Position Cable Termination Electrical Connections (Red) Electrical Connections (Blue) Cable Length Cable Type	7/8 in x 1.41 in 3.8 oz 1/4-28 UNF 3 to 5 ft-lb Ceramic Shear Stainless Steel Welded Hermetic Integral Cable Side Pigtail Ends 4-20 mA Pos (+) 4-20 mA Neg (-) 10 ft Polyurethane	22.2 mm x 35.8 mm 108 gm 1/4-28 UNF 4 to 7 Nm Ceramic Shear Stainless Steel Welded Hermetic Integral Cable Side Pigtail Ends 4-20 mA Pos (+) 4-20 mA Neg (-) 3.0 m Polyurethane		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										
				M - Metric Mount Supplied Accessory: Model M080A163 Mounting pad 3/4-16 to M6 x 1 (for Models 607A01 and 608A11)										
				RV - Buffered Analog Signal Output - 100 mV/g (±20%) Electrical Connector Electrical Connections (Red) Electrical Connections (Black) Electrical Connections (White) Electrical Connections (Green)										
				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 value. [5] See PCB Declaration of Conformance PS039 or PS053 for details.										
 <p data-bbox="121 1084 1073 1154">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.</p>				Supplied Accessories 080A162 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: LLH</td> <td>Engineer: do</td> <td>Sales: EGY</td> <td>Approved: NJF</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 01/09/2009</td> <td>Date: 01/09/2009</td> <td>Date: 01/09/2009</td> <td>Date: 01/09/2009</td> <td>41962</td> </tr> </table>	Entered: LLH	Engineer: do	Sales: EGY	Approved: NJF	Spec Number:	Date: 01/09/2009	Date: 01/09/2009	Date: 01/09/2009	Date: 01/09/2009	41962
Entered: LLH	Engineer: do	Sales: EGY	Approved: NJF	Spec Number:										
Date: 01/09/2009	Date: 01/09/2009	Date: 01/09/2009	Date: 01/09/2009	41962										
				 <p data-bbox="1570 1182 1877 1349">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>										