




Model Number TO641B32		LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR		Revision: A ECN #: 29071
Performance		ENGLISH	SI	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. M - Metric Mount Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40
Measurement Range(Vibration)	0.0 to 2.0 in/s rms	0.0 to 50.8 mm/s rms	[2]	
Measurement Range(Temperature)	-40 to 257 °F	-40 to 125 °C	[1]	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 for details.
Output	4-20 mA	4-20 mA		
Frequency Range(± 10 %)	600 to 60,000 cpm	10 to 1 kHz	[3][4]	
Broadband Resolution	0.01 in/s rms	0.26 mm/s rms	[5]	
Non-Linearity	1 %	1 %		
Environmental				
Temperature Range	-40 to 185 °F	-40 to 85 °C	[1]	
Electrical				
Excitation Voltage	12 to 30 VDC	12 to 30 VDC		
Settling Time	<15 sec	<15 sec		
Electrical Isolation(Case)	>10 ⁸ ohm	>10 ⁸ ohm		
Physical				
Size (Hex x Height)	1.00 in x 2.60 in	25.4 mm x 66.0 mm		
Weight	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	4-Pin Bayonet	4-Pin Bayonet		
Electrical Connection Position	Top	Top		
Electrical Connections(Pin A)	Vibration, 4-20 mA Pos.	Vibration, 4-20 mA Pos.		
Electrical Connections(Pin B)	Vibration, 4-20 mA Neg.	Vibration, 4-20 mA Neg.		
Electrical Connections(Pin C)	Temperature, 4-20 mA Pos.	Temperature, 4-20 mA Pos.		
Electrical Connections(Pin D)	Temperature, 4-20 mA Neg.	Temperature, 4-20 mA Neg.		
 [6]		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		
		Entered: <i>[Signature]</i>	Engineer: <i>[Signature]</i>	Sales: <i>[Signature]</i>
		Date: <i>7-9-08</i>	Date: <i>7-8-08</i>	Date: <i>7-8-08</i>
				Spec Number: 32262
 [6]		 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

All specifications are at room temperature unless otherwise specified.
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