


Model Number 640B10		LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR		Revision: NR ECN #:	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Measurement Range	0.0 to 0.5 in/s pk	0.0 to 12.7 mm/s pk	[1]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Output	4-20 mA	4-20 mA		M - Metric Mount	
Frequency Range (± 10 %)	180 to 60,000 cpm	3 to 1 kHz	[2][3]	Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40	
Broadband Resolution	0.005 in/s pk	0.13 mm/s pk	[4]	RV - Buffered Analog Signal Output - 100 mV/g (±20%)	
Non-Linearity	± 1 %	± 1 %		Electrical Connector	Integral Cable
Environmental				Electrical Connections (Red)	4-20 mA Pos
Temperature Range	-40 to 185 °F	-40 to 85 °C		Electrical Connections (Black)	4-20 mA Neg
Electrical				Electrical Connections (White)	Signal Output Pos
Excitation Voltage	12 to 30 VDC	12 to 30 VDC		Electrical Connections (Green)	Signal Output Neg
Settling Time (within 2% of value)	<15 sec	<15 sec		NOTES:	
Electrical Isolation (Case)	>10 ⁸ ohm	>10 ⁸ ohm		[1] Conversion Factor 1 in/sec = 0.0254 m/sec.	
Physical				[2] Current will fluctuate at frequencies below 5 Hz.	
Size (Hex x Height)	1.0 in x 4.2 in	25.4 mm x 107 mm		[3] 1Hz = 60 cpm (cycles per minute).	
Weight (without cable)	4.7 oz	131 gm		[4] Typical.	
Mounting Thread	1/4-28 UNF	Not Applicable		[5] See PCB Declaration of Conformance PS039 for details.	
Mounting Torque	3 to 5 ft-lb	4 to 7 N-m		SUPPLIED ACCESSORIES:	
Sensing Element	Ceramic	Ceramic		Model 081A40 Mounting Stud (1)	
Sensing Geometry	Shear	Shear		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)	
Housing Material	Stainless Steel	Stainless Steel		Entered: BLS Engineer: MJI Sales: BGT Approved: NF Spec Number:	
Sealing	Welded Hermetic	Welded Hermetic		Date: 10-18-04 Date: 10/18/04 Date: 10/18/04 Date: 10/21/04 28075	
Electrical Connector	Integral Cable	Integral Cable		IMI SENSORS	
Electrical Connection Position	Top	Top		A PCB PIEZOTRONICS DIV.	
Electrical Connections (Red)	4-20 mA Pos	4-20 mA Pos		3425 Walden Avenue, Depew, NY 14043	
Electrical Connections (Blue)	4-20 mA Neg	4-20 mA Neg		Phone: 800-959-4464	
Cable Length	10 ft	3.0 m		Fax: 716-684-3823	
Cable Type	Polyurethane	Polyurethane		E-Mail: imi@pcb.com	
					
[5]					
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.					



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