

Model Number 640B11	4-20 MA OUTPUT VELOCITY SENSOR				Revision B ECN #: 30338										
Performance	ENGLISH	SI	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option may be used.)												
Measurement Range	0.0 to 1 in/sec pk	0.0 to 25.4 mm/s pk	[1]												
Output	4-20 mA	4-20 mA	[2]												
Frequency Range (±10 %)	180 to 60000 cpm	3 to 1 kHz	[3]												
Broadband Resolution	0.005 in/sec pk	0.13 mm/s pk	[4]												
Non-Linearity	±1 %	±1 %													
Environmental			EX - Hazardous Area Approval- contact factory for specific approvals												
Temperature Range	-40 to 185 °F	-40 to 85 °C	Hazardous Area Approval												
Electrical			Hazardous Area Approval												
Excitation Voltage	12 to 30 VDC	12 to 30 VDC	Hazardous Area Approval												
Settling Time (within 2% of value)	<15 sec	<15 sec	Hazardous Area Approval												
Electrical Isolation (Case)	>10 ⁸ Ohms	>10 ⁸ Ohms	Hazardous Area Approval												
Physical			M - Metric Mount												
Size (Hex x Height)	1.0 in x 4.2 in	25.4 mm x 107 mm	Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1 replaces Model 081A40												
Weight (without cable)	4.7 oz	131 gm	RV - Buffered Analog Signal Output - 100 mV/g (±20%)												
Mounting Thread	1/4-28 UNF	No Metric Equivalent	Electrical Connector												
Mounting Torque	3 to 5 ft-lb	4 to 7 Nm	Electrical Connections (Red)												
Sensing Element	Ceramic	Ceramic	Electrical Connections (Black)												
Sensing Geometry	Shear	Shear	Electrical Connections (White)												
Housing Material	Stainless Steel	Stainless Steel	Electrical Connections (Green)												
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													
			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.												
			[5] See PCB Declaration of Conformance PS039 or PS053 for details.												
			Supplied Accessories												
			081A40 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><tr><td>Entered: BLS</td><td>Engineer: LAB</td><td>Sales: EGY</td><td>Approved: BLS</td><td>Spec Number:</td></tr><tr><td>Date: 03/30/2009</td><td>Date: 03/23/2009</td><td>Date: 03/23/2009</td><td>Date: 03/30/2009</td><td>27447</td></tr></table>			Entered: BLS	Engineer: LAB	Sales: EGY	Approved: BLS	Spec Number:	Date: 03/30/2009	Date: 03/23/2009	Date: 03/23/2009	Date: 03/30/2009	27447
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			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												


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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.
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