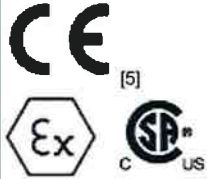


Model Number <b>646B60</b>	<b>LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR</b>			Revision: NR ECN #:
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b>
Measurement Range	0 to 10 g rms	0.0 to 98.1 m/s <sup>2</sup> rms	[1]	Optional versions have identical specifications 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		
Frequency Range(± 10 %)	180 to 60,000 cpm	3 to 1 kHz	[2][3]	
Broadband Resolution	0.05 g rms	0.5 m/s <sup>2</sup> rms	[4]	
Non-Linearity	± 1 %	± 1 %		<b>EX - ATEX or ATEX and CSA Hazardous Area Approval</b>
<b>Environmental</b>				Hazardous Area Approval EEx ia IIC T4, -40°CsTas80° EEx ia IIC T4, -40°CsTas80° C, II 1 G C, II 1 G
Temperature Range	-40 to 185 °F	-40 to 85 °C		Hazardous Area Approval EEx nL IIC T4, -40°CsTas80° EEx nL IIC T4, -40°CsTas80° C, II 3 G C, II 3 G
<b>Electrical</b>				Hazardous Area Approval DIV I, CL I, II, III, GRPS A-G, DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4 Exia, AExia, IIC T4
Excitation Voltage	12 to 30 VDC	12 to 30 VDC		Hazardous Area Approval DIV II, CL I, GRPS A-D, DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4 ExnL, AExnA, IIC T4
Settling Time(within 2% of value)	<15 sec	<15 sec		
Electrical Isolation(Case)	>10 <sup>8</sup> ohm	>10 <sup>8</sup> ohm		
<b>Physical</b>				<b>M - Metric Mount</b> Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40
Size (Hex x Height)	1.0 in x 4.2 in	25.4 mm x 107 mm		<b>RV - Buffered Analog Signal Output - 100 mV/g (±20%)</b>
Weight(without cable)	4.7 oz	131 gm		Electrical Connector Integral Armored Cable Integral Armored Cable
Mounting Thread	1/4-28 UNF	Not Applicable		Electrical Connections(Red) 4-20 mA Pos (+) 4-20 mA Pos (+)
Mounting Torque	3 to 5 ft-lb	4 to 7 N-m		Electrical Connections(Black) 4-20 mA Neg (-) 4-20 mA Neg (-)
Sensing Element	Ceramic	Ceramic		Electrical Connections(White) Signal Output Pos Signal Output Pos
Sensing Geometry	Shear	Shear		Electrical Connections(Green) Signal Output Neg Signal Output Neg
Housing Material	Stainless Steel	Stainless Steel		
Sealing	Welded Hermetic	Welded Hermetic		
Electrical Connector	Integral Armored Cable	Integral Armored 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		
				<b>NOTES:</b> [1] Conversion Factor 1g = 9.81 m/s <sup>2</sup> . [2] Current will fluctuate at frequencies below 5 Hz. [3] 1Hz = 60 cpm (cycles per minute). [4] Typical. [5] See PCB Declaration of Conformance PS039 or PS053 for details.
				<b>SUPPLIED ACCESSORIES:</b> 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 (1)
				Entered: <i>[Signature]</i> Engineer: <i>[Signature]</i> Sales: <i>[Signature]</i> Approved: <i>[Signature]</i> Spec Number:
				Date: <i>6/16/08</i> Date: <i>6/16/08</i> Date: <i>6/16/08</i> Date: <i>6/16/08</i> <b>40467</b>
				<b>IMI SENSORS</b> 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.  
In the interest of constant product improvement, we reserve the right to change specifications without notice.

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