

Model Number 643A12	4-20 MA OUTPUT VELOCITY SENSOR			Revision: C ECN #: 43341																									
Performance	ENGLISH	SI		<p>OPTIONAL VERSIONS</p> <p>Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.</p> <p>M - Metric Mount Supplied Accessory : Model M080A163A (1) replaces Model 080A162</p> <p>RV - Buffered Analog Signal Output - 100 mV/g (±20%)</p> <table border="0"> <tr> <td>Electrical Connector</td> <td>Integral Cable</td> <td>Integral Cable</td> </tr> <tr> <td>Electrical Connections(Red)</td> <td>4-20 mA Pos (+)</td> <td>4-20 mA Pos (+)</td> </tr> <tr> <td>Electrical Connections(Black)</td> <td>4-20 mA Neg (-)</td> <td>4-20 mA Neg (-)</td> </tr> <tr> <td>Electrical Connections(White)</td> <td>Signal Output Pos</td> <td>Signal Output Pos</td> </tr> <tr> <td>Electrical Connections(Green)</td> <td>Signal Output Neg</td> <td>Signal Output Neg</td> </tr> </table> <p>NOTES:</p> <p>[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]1/8" hex Allen key required for English version, 3mm hex Allen key required for metric version. [6]Stud torque must exceed sensor hex nut torque to ensure proper dismantling. [7]See PCB Declaration of Conformance PS039 for details.</p> <p>SUPPLIED ACCESSORIES:</p> <p>Model 080A162 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</p> <table border="1"> <tr> <td>Entered: AP</td> <td>Engineer: DK</td> <td>Sales: EGY</td> <td>Approved: BAM</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 10/10/2014</td> <td>Date: 10/10/2014</td> <td>Date: 10/10/2014</td> <td>Date: 10/10/2014</td> <td>25776</td> </tr> </table> <p>IMI SENSORS A PCB PIEZOTRONICS DIV. 3425 Walden Avenue, Depew, NY 14043</p> <p>Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.com</p>	Electrical Connector	Integral Cable	Integral Cable	Electrical Connections(Red)	4-20 mA Pos (+)	4-20 mA Pos (+)	Electrical Connections(Black)	4-20 mA Neg (-)	4-20 mA Neg (-)	Electrical Connections(White)	Signal Output Pos	Signal Output Pos	Electrical Connections(Green)	Signal Output Neg	Signal Output Neg	Entered: AP	Engineer: DK	Sales: EGY	Approved: BAM	Spec Number:	Date: 10/10/2014	Date: 10/10/2014	Date: 10/10/2014	Date: 10/10/2014	25776
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Measurement Range	0.0 to 2 in/sec rms	0 to 50.8 mm/s rms	[1]																										
Output	4-20 mA	4-20 mA																											
Frequency Range(± 10 %)	600 to 60,000 cpm	10 to 1 kHz	[2][3]																										
Broadband Resolution	0.005 in/sec rms	0.13 mm/s rms	[4]																										
Non-Linearity	± 1 %	± 1 %																											
Environmental																													
Temperature Range	-40 to 185 °F	-40 to 85 °C																											
Electrical																													
Excitation Voltage	12 to 30 VDC	12 to 30 VDC																											
Settling Time(within 2% of value)	<15 sec	<15 sec																											
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm																											
Physical																													
Size (Hex x Height)	7/8 in x 1.41 in	22.2 mm x 35.8 mm																											
Weight(without cable)	3.8 oz	108 gm																											
Mounting Thread	1/4-28 UNF	1/4-28 UNF																											
Mounting Torque(Stud)	3 to 4 ft-lb	4.1 to 5.4 Nm	[5][6]																										
Mounting Torque(hex nut)	2 to 3 ft-lb	2.7 to 4.1 Nm																											
Sensing Element	Ceramic	Ceramic																											
Sensing Geometry	Shear	Shear																											
Housing Material	Stainless Steel	Stainless Steel																											
Sealing	Welded Hermetic	Welded Hermetic																											
Electrical Connector	Integral Cable	Integral Cable																											
Electrical Connection Position	Side	Side																											
Cable Termination	Pigtail Ends	Pigtail Ends																											
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																											



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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