

Model Number 641B11	4-20 MA OUTPUT VELOCITY SENSOR			Revision B ECN #: 24962
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>		<b>Optional Versions</b> (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Measurement Range	0.0 to 1 in/sec rms	0.0 to 25.4 mm/s rms	[1][2]	for standard model except where noted below. More than one option maybe used.)
Output	4-20 mA	4-20 mA		<b>EX</b> - Hazardous Area Approval- contact factory for specific approvals
Frequency Range (±10 %)	600 to 60000 cpm	10 to 1 kHz	[3][4]	Hazardous Area Approval
Broadband Resolution	0.005 in/sec rms	0.13 mm/s rms	[5]	DIV II, CL I, GRPS
Non-Linearity	±1 %	±1 %		A-D, ExnL, AExnA, IIC T4
<b>Environmental</b>				A-D, ExnL, AExnA, IIC T4
Temperature Range	-40 to 185 °F	-40 to 85 °C		Ex d IIC T4 Gb, - 20°C ≤ Ta ≤ 80°C, II 2 G
<b>Electrical</b>				Ex d IIC T4 Gb, - 20°C ≤ Ta ≤ 80°C, II 2 G
Excitation Voltage	12 to 30 VDC	12 to 30 VDC		EEx nL IIC T4, - 40°C ≤ Ta ≤ 80°C, II 3 G
Settling Time (within 2% of value)	<15 sec	<15 sec		EEx nL IIC T4, - 40°C ≤ Ta ≤ 80°C, II 3 G
Electrical Isolation (Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm		G
<b>Physical</b>				DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4
Size (Hex x Height)	1.0 in x 4.2 in	25.4 mm x 107 mm		<b>M</b> - Metric Mount
Weight (without cable)	4.7 oz	131 gm		Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1 replaces Model 081A40
Mounting Thread	1/4-28 UNF	No Metric Equivalent		<b>RV</b> - Buffered Analog Signal Output - 100 mV/g (±20%)
Mounting Torque	3 to 5 ft-lb	4 to 7 Nm		Electrical Connector
Sensing Element	Ceramic	Ceramic		Integral Cable
Sensing Geometry	Shear	Shear		Electrical Connections (Red)
Housing Material	Stainless Steel	Stainless Steel		4-20 mA Pos (+)
Sealing	Welded Hermetic	Welded Hermetic		Electrical Connections (Black)
Electrical Connector	Integral Cable	Integral Cable		4-20 mA Neg (-)
Electrical Connection Position	Top	Top		Electrical Connections (White)
Electrical Connections (Red)	4-20 mA Pos (+)	4-20 mA Pos (+)		Signal Output Pos
Electrical Connections (Blue)	4-20 mA Neg (-)	4-20 mA Neg (-)		Signal Output Pos
Cable Length	10 ft	3.0 m		Electrical Connections (Green)
Cable Type	Polyurethane	Polyurethane		Signal Output Neg
				<b>Notes</b>
				[1] Conversion Factor 1 in/sec = 0.0254 m/sec.
				[2] Maximum frequency for 1 in/sec rms output, 700 Hz.
				[3] 1Hz = 60 cpm (cycles per minute).
				[4] Current will fluctuate at frequencies below 5 Hz.
				[5] Typical.
				[6] See PCB Declaration of Conformance PS039 or PS053 for details.
				<b>Supplied Accessories</b>
				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)



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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Entered: NJF				Spec Number:
Date:				27345
09/22/2006				



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