

Model Number 641B00	4-20 MA OUTPUT VELOCITY SENSOR			Revision ECN #:										
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 maybe used.)											
Measurement Range	0.0 to 0.5 in/sec rms	0.0 to 12.7 mm/s rms	EX - Hazardous Area Approval- contact factory for specific approvals											
Output	4-20 mA	4-20 mA	Hazardous Area Approval											
Frequency Range (±10 %)	600 to 60000 cpm	10 to 1 kHz	DIV II, CL I, GRPS											
Broadband Resolution	0.005 in/sec rms	0.13 mm/s rms	A-D, ExnL, AExnA, IIC T4											
Non-Linearity	±1 %	±1 %	EEx ia IIC T4, -40°C≤Ta≤80°C, II 1 G											
Environmental			Hazardous Area Approval											
Temperature Range	-40 to 185 °F	-40 to 85 °C	EEx nL IIC T4, -40°C≤Ta≤80°C, II 3 G											
Electrical			Hazardous Area Approval											
Excitation Voltage	12 to 30 VDC	12 to 30 VDC	DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4											
Load Resistance	50 (Vs-12) ohms	50 (Vs-12) ohms												
Settling Time (within 2% of value)	<15 sec	<15 sec												
Electrical Isolation (Case)	>10 ⁸ Ohm	>10 ⁸ Ohm												
Physical														
Size (Hex x Height)	1.0 in x 2.6 in	25.4 mm x 66 mm												
Weight	4.7 oz	131 gm												
Mounting Thread	1/4-28 UNF	No Metric Equivalent												
Mounting Torque	3 to 5 ft-lb	4 to 7 Nm												
Sensing Element	Ceramic	Ceramic												
Sensing Geometry	Shear	Shear												
Housing Material	Stainless Steel	Stainless Steel												
Sealing	Welded Hermetic	Welded Hermetic												
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015												
Electrical Connection Position	Top	Top												
Electrical Connections (Pin A)	4-20 mA Pos (+)	4-20 mA Pos (+)												
Electrical Connections (Pin B)	4-20 mA Neg (-)	4-20 mA Neg (-)												
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: NJF</td><td></td><td></td><td></td><td>Spec Number:</td></tr><tr><td>Date:</td><td></td><td></td><td></td><td></td></tr></table>					Entered: NJF				Spec Number:	Date:				
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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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