Model Number **640B71**	**4-20 MA OUTPUT VELOCITY SENSOR**	Revision C ECN #: 27692

Performance	**ENGLISH**	**SI**	
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	
Frequency Range (±3 dB)	180 to 60000 cpm	3 to 1000 Hz	[2][3]
Broadband Resolution	0.005 in/sec pk	0.13 mm/s pk	[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)	1.5 in x 3.7 in	38.1 mm x 94 mm	
Weight	19.5 oz	553 gm	
Mounting Thread	1/4 NPT	No Metric Equivalent	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Electrical Connector	Removable Screw Terminals	Removable Screw Terminals	
Electrical Connection Position	Top	Top	
Electrical Connections (Tab 1)	4-20 mA Pos (+)	4-20 mA Pos (+)	
Electrical Connections (Tab 2)	4-20 mA Neg (-)	4-20 mA Neg (-)	
Screw Terminal Wire Size	12-24 AWG	3.0 - .2mm^2	

CE[5]

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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Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

EP - Explosion-proof certified conduit housing with 1" pipe thread

RV - Buffered Analog Signal Output - 100 mV/g (±20%)

Electrical Connector	Removable Screw Terminals	Removable Screw Terminals
Electrical Connections (Tab 1)	4-20 mA Pos (+)	4-20 mA Pos (+)
Electrical Connections (Tab 2)	4-20 mA Neg (-)	4-20 mA Neg (-)
Electrical Connections (Tab 3)	Signal Output Pos	Signal Output Pos
Electrical Connections (Tab 4)	Signal Output Neg	Signal Output 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 for details.

Supplied Accessories

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: LLH	Engineer: MPN	Sales: NJF	Approved: LLH	Spec Number:
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