



Model Number 640B72	4-20 MA OUTPUT VELOCITY SENSOR			Revision C ECN #: 33907
<b>Performance</b> Measurement Range Output Frequency Range (±3 dB) Broadband Resolution Non-Linearity	<b>ENGLISH</b> 0.0 to 2 in/sec pk 4-20 mA 180 to 60000 cpm 0.01 in/sec pk ±1 %	<b>SI</b> 0.0 to 50.8 mm/s pk 4-20 mA 3 to 1000 Hz 0.26 mm/s pk ±1 %	[1] [2][3] [4]	<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.) <b>EP</b> - Explosion-proof certified conduit housing with 1" pipe thread <b>HT</b> - High temperature, extends normal operation temperatures [6] Temperature Range -40 to 275 °F -40 to 125 °C <b>RV</b> - Buffered Analog Signal Output - 100 mV/g (±20%) Electrical Connector Removable Screw Terminals Removable Screw Terminals
<b>Environmental</b> Temperature Range <b>Electrical</b> Excitation Voltage Settling Time (within 2% of value) Electrical Isolation (Case)	-40 to 185 °F 12 to 30 VDC <15 sec >10 <sup>8</sup> Ohm	-40 to 85 °C 12 to 30 VDC <15 sec >10 <sup>8</sup> Ohm	Electrical Connections (Tab 1) 4-20 mA Pos (+) Electrical Connections (Tab 2) 4-20 mA Neg (-) Electrical Connections (Tab 3) Signal Output Pos Electrical Connections (Tab 4) Signal Output Neg	
<b>Physical</b> Size (Hex x Height) Weight Mounting Thread Sensing Element Sensing Geometry Housing Material Electrical Connector  Electrical Connection Position Electrical Connections (Tab 1) Electrical Connections (Tab 2) Screw Terminal Wire Size	1.5 in x 3.7 in 19.5 oz 1/4 NPT Ceramic Shear Stainless Steel Removable Screw Terminals Top 4-20 mA Pos (+) 4-20 mA Neg (-) 12-24 AWG	38.1 mm x 94 mm 553 gm No Metric Equivalent Ceramic Shear Stainless Steel Removable Screw Terminals Top 4-20 mA Pos (+) 4-20 mA Neg (-) 3.0 - .2mm <sup>2</sup>	<b>TO</b> - Temperature Output [7] Temperature Output Range -40 to +125 °C -40 to +125 °C Electrical Connector Removable Screw Terminals Removable Screw Terminals Electrical Connections (Tab 1) Vibration, 4-20 mA Pos. Electrical Connections (Tab 2) Vibration, 4-20 mA Neg. Electrical Connections (Tab 3) Temperature, 4-20 mA Pos. Electrical Connections (Tab 4) Temperature, 4-20 mA Neg. <b>VO</b> - Buffered Analog Signal Output 100 mV/in/sec (±20%) [8] Electrical Connector Terminal Block Terminal Block Electrical Connections (Tab 1) Vibration, 4-20 mA Pos. Electrical Connections (Tab 2) Vibration, 4-20 mA Neg. Electrical Connections (Tab 3) Signal Output Pos Electrical Connections (Tab 4) Signal Output Neg	
 [5]				<b>Notes</b> [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. [6] Can not be combined with EX or VO options. [7] Can not be combined with RV or VO options. [8] Can not be combined with EX, HT, TO, RV options.
<i>All specifications are at room temperature unless otherwise specified.</i> In the interest of constant product improvement, we reserve the right to change specifications without notice.				
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<b>Supplied Accessories</b> 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: DMW Date: 09/01/2010	Engineer: do Date: 09/01/2010	Sales: MPN Date: 09/01/2010	Approved: do Date: 09/01/2010	Spec Number: <b>34414</b>
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