



Model Number HT641B12	LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR			Revision: NR ECN #:										
Performance	ENGLISH	SI		OPTIONAL VERSIONS										
Measurement Range	0.0 to 2 in/s rms	0.0 to 50.8 mm/s rms	[1]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.										
Output	4-20 mA	4-20 mA		M - Metric Mount Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40										
Frequency Range(± 10 %)	600 to 60,000 cpm	10 to 1 kHz	[2][3]	RV - Buffered Analog Signal Output - 100 mV/g (±20%)										
Broadband Resolution	0.01 in/s rms	0.26 mm/s rms	[4]	Electrical Connector Integral Armored Cable Integral Armored Cable										
Non-Linearity	± 1 %	± 1 %		Electrical Connections(Red) 4-20 mA Pos (+) 4-20 mA Pos (+)										
Environmental				Electrical Connections(Black) 4-20 mA Neg (-) 4-20 mA Neg (-)										
Temperature Range	-40 to 257 °F	-40 to 125 °C		Electrical Connections(White) Signal Output Pos Signal Output Pos										
Electrical				Electrical Connections(Green) Signal Output Neg Signal Output Neg										
Excitation Voltage	12 to 30 VDC	12 to 30 VDC		NOTES:										
Settling Time(within 2% of value)	<15 sec	<15 sec		[1] Conversion Factor 1 in/sec = 0.0254 m/sec.										
Electrical Isolation(Case)	>10 ⁸ ohm	>10 ⁸ ohm		[2] Current will fluctuate at frequencies below 5 Hz.										
Physical				[3] 1Hz = 60 cpm (cycles per minute).										
Size (Hex x Height)	1.0 in x 4.2 in	25.4 mm x 107 mm		[4] Typical.										
Weight(without cable)	4.7 oz	131 gm		[5] See PCB Declaration of Conformance PS039 for details.										
Mounting Thread	1/4-28 UNF	Not Applicable		SUPPLIED ACCESSORIES:										
Mounting Torque	3 to 5 ft-lb	4 to 7 N-m		Model 081A40 Mounting Stud (1)										
Sensing Element	Ceramic	Ceramic		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 (1)										
Sensing Geometry	Shear	Shear												
Housing Material	Stainless Steel	Stainless Steel												
Sealing	Welded Hermetic	Welded Hermetic												
Electrical Connector	Integral Cable	Integral Cable												
Electrical Connection Position	Top	Top												
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												
<table border="1"> <tr> <td>Entered: <i>JH</i></td> <td>Engineer: <i>MJE</i></td> <td>Sales: <i>MRS</i></td> <td>Approved: <i>NR</i></td> <td>Spec Number:</td> </tr> <tr> <td>Date: <i>8-16-07</i></td> <td>Date: <i>8/17/07</i></td> <td>Date: <i>8/17/07</i></td> <td>Date: <i>8/17/07</i></td> <td>38329</td> </tr> </table>					Entered: <i>JH</i>	Engineer: <i>MJE</i>	Sales: <i>MRS</i>	Approved: <i>NR</i>	Spec Number:	Date: <i>8-16-07</i>	Date: <i>8/17/07</i>	Date: <i>8/17/07</i>	Date: <i>8/17/07</i>	38329
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 [5]		<p><i>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.</i></p> <p>ICP® is a registered trademark of PCB Group, Inc.</p>												
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