

Performance	ENGLISH	SI	
Measurement Range	0.0 to 2 in/s rms	0.0 to 50.8 mm/s rms	[1]
Output	4-20 mA	4-20 mA	
Frequency Range ( $\pm 10\%$ )	600 to 60,000 cpm	10 to 1 kHz	[2][3]
Broadband Resolution	0.01 in/s rms	0.26 mm/s rms	[4]
Non-Linearity	$\pm 1\%$	$\pm 1\%$	
<b>Environmental</b>			
Temperature Range	-40 to 185 °F	-40 to 85 °C	
<b>Electrical</b>			
Excitation Voltage	12 to 30 VDC	12 to 30 VDC	
Settling Time (within 2% of value)	<15 sec	<15 sec	
Electrical Isolation (Case)	>10 <sup>8</sup>	>10 <sup>8</sup>	
<b>Physical</b>			
Size (Hex x Height)	1.0 in x 4.2 in	25.4 mm x 107 mm	
Weight (without cable)	4.7 oz	131 gm	
Mounting Thread	1/4-28 UNF	Not Applicable	
Mounting Torque	3 to 5 ft-lb	4 to 7 N-m	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Integral Armored Cable	Integral Armored 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	[5]



[6]



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 the standard model except where noted below. More than one option may be used.

**EX** - ATEX or ATEX and CSA Hazardous Area Approval

Hazardous Area Approval	EEx ia IIC T4, -40°C≤T <sub>a</sub> ≤80°C, II 1 G
Hazardous Area Approval	EEx nL IIC T4, -40°C≤T <sub>a</sub> ≤80°C, II 3 G
Hazardous Area Approval	DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4
Hazardous Area Approval	DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4

**M** - Metric Mount

Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40

**RV** - Buffered Analog Signal Output - 100 mV/g ( $\pm 20\%$ )

Electrical Connector	Integral Armored Cable
Electrical Connections (Red)	4-20 mA Pos (+)
Electrical Connections (Black)	4-20 mA Neg (-)
Electrical Connections (White)	Signal Output Pos
Electrical Connections (Green)	Signal Output Neg

**NOTES:**

- [1] Conversion Factor 1 in/sec = 0.0254 m/sec.
- [2] Current will fluctuate at frequencies below 5 Hz.
- [3] 1 Hz = 60 cpm (cycles per minute).
- [4] Typical.
- [5] Stainless steel armor jacket over twisted shielded pair.
- [6] See PCB Declaration of Conformance PS039 or PS053 for details.

**SUPPLIED ACCESSORIES:**

Model 081A40 Mounting Stud (1)  
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)

Entered: <i>SP</i>	Engineer: <i>mf</i>	Sales: <i>gplm</i>	Approved: <i>DF</i>	Spec Number:
Date: 9-22-06	Date: 9/22/06	Date: 9/22/06	Date: 9/22/06	28084

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