


Performance	ENGLISH	SI	
Measurement Range	0.0 to 5 g rms	0.0 to 49 m/s <sup>2</sup> rms	[1]
Output	4-20 mA	4-20 mA	
Frequency Range(± 10 %)	180 to 60 kcpm	3 to 1 kHz	[2][3]
Broadband Resolution	0.025 g rms	0.24 m/s <sup>2</sup> rms	[4]
Non-Linearity	± 1 %	± 1 %	
<b>Environmental</b>			
Temperature Range	-40 to 185 °F	-40 to 85 °C	
Enclosure Rating	IP68	IP68	
<b>Electrical</b>			
Excitation Voltage	12 to 30 VDC	12 to 30 VDC	
Load Resistance	50(Vs-12) Ohm	50(Vs-12) Ohm	
Settling Time(within 2% of value)	< 15 sec	< 15 sec	
Electrical Isolation(Case)	> 10 <sup>8</sup> Ohm	> 10 <sup>8</sup> Ohm	
<b>Physical</b>			
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 (-)	

<b>OPTIONAL VERSIONS</b>			
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.			
<b>EX</b> - Hazardous Area Approval- contact factory for specific approvals			
Hazardous Area Approval	DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4	DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4	
Hazardous Area Approval	EEx ia IIC T4, -40°C ≤ Ta ≤ 80°C, II 1 G	EEx ia IIC T4, -40°C ≤ Ta ≤ 80°C, II 1 G	
Hazardous Area Approval	EEx nL IIC T4, -40°C ≤ Ta ≤ 80°C, II 3 G	EEx nL IIC T4, -40°C ≤ Ta ≤ 80°C, II 3 G	
Hazardous Area Approval	DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4	DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4	
<b>M</b> - Metric Mount Supplied Accessory: Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40			
<b>RV</b> - Buffered Analog Signal Output - 100 mV/g (±20%)			
Electrical Connector	3-Pin MIL-C-5015	3-Pin MIL-C-5015	
Electrical Connections(Pin A)	4-20 mA Pos (+)	4-20 mA Pos (+)	
Electrical Connections(Pin B)	4-20 mA Neg/Signal Output Neg	4-20 mA Neg/Signal Output Neg	
Electrical Connections(Pin C)	Signal Output Pos	Signal Output Pos	

**NOTES:**  
 [1] Conversion Factor 1g = 9.81 m/s<sup>2</sup>.  
 [2] Current will fluctuate at frequencies below 5 Hz.  
 [3] 1Hz = 60 cpm (cycles per minute).  
 [4] Typical.  
 [5] 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)

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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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