

Performance	ENGLISH	SI	
Sensitivity(± 3 %)	270 mV/g	27.5 mV/(m/s <sup>2</sup> )	[1]
Measurement Range	± 10 g pk	± 98.1 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	0 to 1,000 Hz	0 to 1,000 Hz	
Frequency Range(± 10 %)	0 to 1,500 Hz	0 to 1,500 Hz	
Resonant Frequency	3.2 kHz	3.2 kHz	[2]
Phase Response(100 Hz)	< 10 °	< 10 °	
Non-Linearity(Typical)	0.3 %	0.3 %	[3]
Non-Linearity(Max)	1 %	1 %	[3]
Broadband Resolution(0.5 to 100 Hz)	0.3 mg rms	0.003 m/s <sup>2</sup> rms	[2]
Transverse Sensitivity(Typical)	1 %	1 %	
Transverse Sensitivity(Max)	3 %	3 %	
Environmental			
Overload Limit(Shock)	± 5,000 g pk	± 49,050 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to 250 °F	-54.0 to 121 °C	
Temperature Range(Storage)	-65 to 250 °F	-54.0 to 121 °C	
Temperature Coefficient of Sensitivity	± 1 %	± 1 %	[2][4]
Zero g Offset Temperature Coefficient	± 1 % FSO	± 1 % FSO	[5][4][2]
Base Strain Sensitivity	.001 g/με	.01 (m/s <sup>2</sup> )/με	[2]
Magnetic Sensitivity	40 μg/gauss	3.9 (m/s <sup>2</sup> )/Tesla	[2]
Electrical			
Excitation Voltage	5 to 32 VDC	5 to 32 VDC	
Current Consumption	≤ 5 mA	≤ 5 mA	
Output Impedance	≤ 120 Ohm	≤ 120 Ohm	
Offset Voltage(0 g)	± 20 mVDC	± 20 mVDC	[6]
Common Mode Voltage(± 0.1 VDC)	+ 1.65 VDC	+ 1.65 VDC	
Spectral Noise(1 Hz)	30 μg/√Hz	294 (μm/s <sup>2</sup> )/√Hz	[2]
Spectral Noise(10 Hz)	30 μg/√Hz	294 (μm/s <sup>2</sup> )/√Hz	[2]
Spectral Noise(100 Hz)	30 μg/√Hz	294 (μm/s <sup>2</sup> )/√Hz	[2]
Electrical Isolation(Case)	> 10 <sup>8</sup> Ohm	> 10 <sup>8</sup> Ohm	[7]
Physical			
Housing Material	Anodized Aluminum	Anodized Aluminum	
Sealing	Epoxy	Epoxy	
Size (Height x Length x Width)	0.30 in x 1.00 in x .85 in	7.62 mm x 25.4 mm x 21.6 mm	
Weight(without cable)	0.35 oz	9.92 gm	[2]
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Side	Side	
Cable Termination	Pigtail Ends	Pigtail Ends	
Cable Type	010 4-cond Shielded	010 4-cond Shielded	
Cable Length	10 ft	3 m	
Mounting	Through Holes (2)	Through Holes (2)	

**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.

**NOTES:**

[1] Measured at 100 Hz, 1 grms.  
 [2] Typical.  
 [3] Zero-based, least-squares, straight line method.  
 [4] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)  
 [5] FSO= Full Scale Output over the Measurement Range  
 [6] Offset tolerance is based on manufacturers supplied cable length.  
 [7] Case and shield to mounting surface or cable leads.  
 [8] See PCB Declaration of Conformance PS027 for details.

**SUPPLIED ACCESSORIES:**

Model 081A103 Mounting screw (2)  
 Model ACS-172 Phase and Amplitude Calibration from 5 Hz to +5% frequency range (1)  
 Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2)

**OPTIONAL ACCESSORIES:**

Model 080A208 Triaxial mounting block

Entered: ND	Engineer: NJF	Sales: JM	Approved: BAM	Spec Number:
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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.