

	ENGLISH	SI	
Performance			
Sensitivity (±20 %)	100 mV/g	10.2 mV/(m/s ²)	[2]
Measurement Range	±50 g	± 490 m/s ²	
Frequency Range (±3 dB)	16 to 600000 cpm	0.27 to 10000 Hz	[3]
Resonant Frequency	960 kcpm	16 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	50 µg	491 µm/s ²	[1]
Non-Linearity	±1 %	±1 %	[4]
Transverse Sensitivity	≤7 %	≤7 %	
Environmental			
Overload Limit (Shock)	5000 g pk	49050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Enclosure Rating	IP68	IP68	
Electrical			
Settling Time (within 1% of bias)	≤4.0 sec	≤4.0 sec	
Discharge Time Constant	≥0.6 sec	≥0.6 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<150 ohms	<150 ohms	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (10 Hz)	3.2 µg/√Hz	31.0 (µm/s ²)/√Hz	[1]
Spectral Noise (100 Hz)	1.0 µg/√Hz	9.81 (µm/s ²)/√Hz	[1]
Spectral Noise (1 kHz)	0.7 µg/√Hz	6.94 (µm/s ²)/√Hz	[1]
Electrical Isolation (Case)	>10 ⁸ ohms	>10 ⁸ ohms	
Physical			
Size (Hex x Height)	7/8 in x 4.5 in	22 mm x 114 mm	
Weight (without cable)	2.8 oz	80 gm	
Mounting	Stud	Stud	
Mounting Thread	1/4-28 Female	Not Applicable	[5]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 N-m	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Armor Jacketed Cable	Armor Jacketed Cable	
Electrical Connection Position	Top	Top	
Cable Length	10 ft	3.0 m	
Cable Type	Polyurethane	Polyurethane	[6]

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.

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

TO - Temperature Output

Temperature Output Range	+36 to +250 °F	+2 to +121 °C
Temperature Scale Factor	5.56 mV/°F + 32	+10 mV/°C
Electrical Connections (Red)	Acceleration Output	Acceleration Output
Electrical Connections (Black)	Ground	Ground
Electrical Connections (White)	Temperature Output	Temperature Output
Electrical Connections (Green)	Ground	Ground

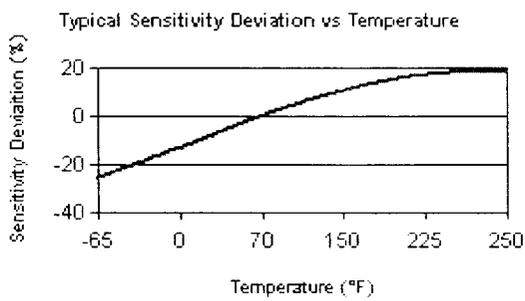
NOTES:

[1] Typical.
 [2] Conversion Factor 1g = 9.81 m/s².
 [3] The high frequency tolerance is accurate within ±10% of the specified frequency.
 [4] Zero-based, least-squares, straight line method.
 [5] 1/4-28 has no equivalent in S.I. units.
 [6] Stainless steel armor jacket over twisted shielded pair.
 [7] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 081A40 Mounting Stud (1)
 Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

Entered: <i>N.F.</i>	Engineer: <i>N.F.</i>	Sales: <i>EGY</i>	Approved: <i>MA</i>	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.
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