


	ENGLISH	SI	
Performance			
Sensitivity(± 15 %)	100 mV/g	10.2 mV/(m/s ²)	[1]
Measurement Range	± 50 g	± 490 m/s ²	
Frequency Range(± 3 dB)	30 to 600,000 cpm	0.5 to 10,000 Hz	
Resonant Frequency	1,320 kcpm	22 kHz	[2]
Broadband Resolution(1 to 10,000 Hz)	350 µg	3,434 µm/sec ²	[2]
Non-Linearity	± 1 %	± 1 %	[3]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	5,000 g pk	49,050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[2]
Enclosure Rating	IP68	IP68	
Electrical			
Settling Time(within 1% of bias)	≤ 2.0 sec	≤ 2.0 sec	
Discharge Time Constant	≥ 0.3 sec	≥ 0.3 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 Ohm	< 150 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	8 µg/√Hz	78.5 (µm/sec ²)/√Hz	[2]
Spectral Noise(100 Hz)	5 µg/√Hz	49.1 (µm/sec ²)/√Hz	[2]
Spectral Noise(1 kHz)	4 µg/√Hz	39.2 (µm/sec ²)/√Hz	[2]
Electrical Isolation(Case)	> 10 ⁸ Ohm	> 10 ⁸ Ohm	
Physical			
Size (Hex x Height)	9/16 in x 2.5 in	14 mm x 64 mm	
Weight(with cable)	3.5 oz	99.3 gm	
Mounting	Stud	Stud	
Mounting Thread	1/4-28 Female	1/4-28 Female	[4]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Molded	Molded	
Electrical Connector	Molded Integral Cable	Molded Integral Cable	
Electrical Connection Position	Top	Top	
Cable Length	10 ft	3 m	
Cable Type	Polyurethane	Polyurethane	[5]

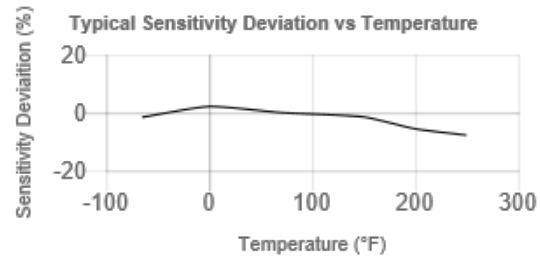
OPTIONAL VERSIONS		
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.		
EX - Hazardous Area Approval- contact factory for specific approvals		
LB - Low Bias Voltage	4.8 to 6.5 VDC	4.8 to 6.5 VDC
Output Bias Voltage	12 to 28 VDC	12 to 28 VDC
Excitation Voltage	± 10 g	± 98 m/s ²
Measurement Range		
M - Metric Mount Supplied Accessory: Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40		
TO - Temperature Output	+36 to +250 °F	+2 to +121 °C
Temperature Output Range	5.56 mV/°F + 32	+10 mV/°C
Temperature Scale Factor	Molded Integral Cable	Molded Integral Cable
Electrical Connector	Acceleration Output	Acceleration Output
Electrical Connections(Red)	Ground	Ground
Electrical Connections(Black)	Temperature Output	Temperature Output
Electrical Connections(White)		

NOTES:
 [1] Conversion Factor 1g = 9.81 m/s².
 [2] Typical.
 [3] Zero-based, least-squares, straight line method.
 [4] 1/4-28 has no equivalent in S.I. units.
 [5] Twisted shielded pair.
 [6] See PCB Declaration of Conformance PS023 or PS060 for details.
 [7] See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.

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

Entered: ND	Engineer: NJF	Sales: JL	Approved: NJF	Spec Number:
Date: 04/20/2026	Date: 04/20/2026	Date: 04/20/2026	Date: 04/20/2026	13273

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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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