

	ENGLISH	SI	
Performance			
Sensitivity(± 5 %)	100 mV/g	10.2 mV/(m/s ²)	[1]
Measurement Range	± 50 g	± 490 m/s ²	
Frequency Range(± 5 %)	30 to 390,000 cpm	0.5 to 6,500 Hz	[2]
Frequency Range(± 10 %)	22 to 450,000 cpm	0.37 to 7,500 Hz	
Frequency Range(± 3 dB)	12 to 630,000 cpm	0.2 to 10,500 Hz	
Resonant Frequency	1,500 kcpm	25 kHz	[3]
Broadband Resolution(1 to 10,000 Hz)	50 µg	491 µm/sec ²	[3]
Non-Linearity	± 1 %	± 1 %	[4]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	5,000 g pk	49,050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	[3]
Temperature Response	See Graph	See Graph	
Enclosure Rating	IP68	IP68	
Electrical			
Settling Time(within 1% of bias)	≤ 8.0 sec	≤ 8.0 sec	
Discharge Time Constant	≥ 1.0 sec	≥ 1.0 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	< 100 Ohm	< 100 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	2.5 µg/√Hz	24.5 (µm/sec ²)/√Hz	[3]
Spectral Noise(100 Hz)	0.8 µg/√Hz	7.8 (µm/sec ²)/√Hz	[3]
Spectral Noise(1 kHz)	0.5 µg/√Hz	4.9 (µm/sec ²)/√Hz	[3]
Electrical Protection	RF/ESD	RF/ESD	
Electrical Isolation(Case)	> 10 ⁸ Ohm	> 10 ⁸ Ohm	
Physical			
Size (Diameter x Height)	1.38 in x 1.13 in	35.1 mm x 28.7 mm	
Weight(without cable)	4.7 oz	133 gm	
Mounting	Through Hole	Through Hole	
Mounting Thread	1/4-28 Male	Not Applicable	[5]
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	Welded Hermetic	Welded Hermetic	
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.		
EX - Hazardous Area Approval- contact factory for specific approvals		
LB - Low Bias Voltage	6 to 8 VDC	6 to 8 VDC
Output Bias Voltage	12 to 28 VDC	12 to 28 VDC
Excitation Voltage	± 35 g	± 343 m/s ²
Measurement Range		
M - Metric Mount Supplied Accessory: Model M081A73 Mounting Bolt M6 x 1.00		
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 Connector	5-Pin, M12	5-Pin, M12
Electrical Connections(Red)	Acceleration Output Ground	Acceleration Output Ground
Electrical Connections(Black)	Temperature Output Ground	Temperature Output Ground
Electrical Connections(White)	Temperature Output Ground	Temperature Output Ground
Electrical Connections(Green)	Temperature Output Ground	Temperature Output Ground

NOTES:

[1] Conversion Factor 1g = 9.81 m/s².

[2] The high frequency tolerance is accurate within ±10% of the specified frequency.

[3] Typical.

[4] Zero-based, least-squares, straight line method.

[5] 1/4-28 has no equivalent in S.I. units.

[6] Twisted shielded pair.


[7] See PCB Declaration of Conformance PS023 or PS061 for details.

[8] See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.

SUPPLIED ACCESSORIES:

Model 080B45 Thermal Boot (1)
 Model 081A73 Captive mounting bolt 1/4-28 x 1.34" (1)
 Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)
 Model M081A73 Mounting Bolt M6 x 1.00

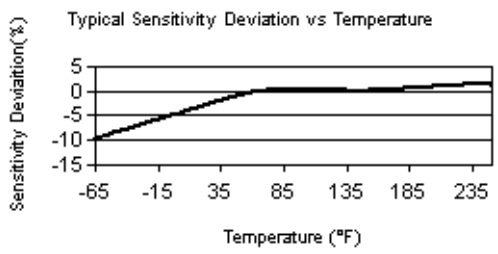
Entered: ND	Engineer: gs	Sales: JL	Approved: BAM	Spec Number:
Date: 05/19/2026	Date: 05/19/2026	Date: 05/19/2026	Date: 05/19/2026	9911



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All specifications are at room temperature unless otherwise specified.
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