

DYNAMIC

	ENGLISH	SI	
Sensitivity (±5%)	100 mV/g	10,2 mV/(m/s ²)	[1]
Measurement Range	±50 g	±490 m/s ²	
Frequency Range: (±5%)	144 - 120,000 cpm	144 - 120 000 cpm	[2] [3]
(±10%)	102 - 300,000 cpm	102 - 300 000 cpm	
(±3 dB)	48 - 480,000 cpm	48 - 480 000 cpm	
Mounted Resonant Frequency	1,200 kcpm	1 200 kcpm	[4]
Amplitude Linearity	±1%	±1%	[5]
Transverse Sensitivity	≤5%	≤5%	

ENVIRONMENTAL

Shock Limit	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	[4]

ELECTRICAL

Settling Time (within 1% of bias)	≤3.0 sec	≤3,0 sec	
Discharge Time Constant	≥0.2 sec	≥0,2 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current	2 to 20 mA	2 to 20 mA	
Output Impedance	<100 ohms	<100 ohms	
Output Bias	8 to 12 VDC	8 to 12 VDC	
Broadband Electrical Noise (1-10 kHz)	100 µg	981 µm/s ²	[4]
Spectral Noise: (10 Hz)	7.0 µg/√Hz	68,7 (µm/s ²)/√Hz	[4]
(100 Hz)	2.8 µg/√Hz	27,5 (µm/s ²)/√Hz	[4]
(1 kHz)	1.0 µg/√Hz	9,8 (µm/s ²)/√Hz	[4]
Case Isolation	>10 ⁸ ohms	>10 ⁸ ohms	
Protection	RFI/ESD	RFI/ESD	

MECHANICAL

Size (length x width x height)	1.5 x 1.5 x 0.82 in	38,1 x 38,1 x 20,8 mm	
Weight (without cable)	4.9 oz	139 gm	
Mounting Thread	1/4-28 UNF-2A	Not Applicable	[6]
Mounting Torque	2 to 5 ft-lb	2,7 to 6,8 N-m	
Sensing Element/Geometry	Ceramic/Shear	Ceramic/Shear	
Case Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Connector Type/Position	Molded Integral Cable/Side	Molded Integral Cable/Side	[7]
Cable Type/Length	Polyurethane/10 Ft	Polyurethane/3,0 M	
Sensing Axis/Cable Color:	X/Red, Y/Green, Z/White, Ground/Black	X/Red, Y/Green, Z/White, Ground/Black	



All specifications are at room temperature unless otherwise specified.

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In the interest of constant product improvement, we reserve the right to change specifications without notice.

Form DD030 Rev.F 2/23/99

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.

<input type="checkbox"/> LB - Low Bias	6 to 8 VDC	6 to 8 VDC
Output Bias	12 to 28 VDC	12 to 28 VDC
Excitation Voltage	±35 g	±343 m/s ²
Measurement Range		

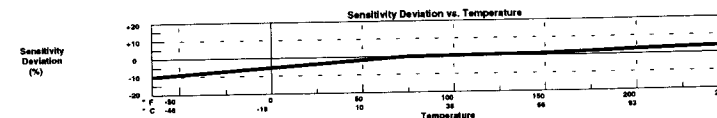
M - Metric
Supplied Accessories: M081A59 Captive Mounting Bolt replaces 081A56

NOTES:

- [1] Conversion Factor 1g = 9,81 m/s².
- [2] 1 Hz = 60 cpm (cycles per minute).
- [3] The high frequency tolerance is accurate within 10% of the specified frequency.
- [4] Typical value.
- [5] Zero-based, least-squares, straight line method.
- [6] 1/4-28 has no equivalent in S.I. units.
- [7] Twisted shielded four conductor.

SUPPLIED ACCESSORIES:

Calibration Certificate (600 to 120,000 cpm)
Model 081A56 Captive Mounting Bolt



Drawn: <i>[Signature]</i>	Engineer: <i>[Signature]</i>	Sales: <i>[Signature]</i>	Approved: <i>[Signature]</i>	Spec Number:
Date: <i>[Signature]</i>	Date: 6.3.99	Date: 6/3/99	Date: 6/3/99	8316



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