

Performance
Sensitivity (± 5 %) 10.2 mV/(m/s²) [2]
Measurement Range ± 50 g ± 490 m/s² [3]
Frequency Range (± 10 %) 1.7 to 12,000 Hz
Frequency Range (± 3 dB) 0.8 to 15,000 Hz
Resonant Frequency 30 kHz [1]
Broadband Resolution (1 to 10,000 Hz) 2354 µm/s² [1]
Non-Linearity ± 1 % [4]
Transverse Sensitivity ≤ 5 %

Environmental
Overload Limit (Shock) 49,050 m/s² pk
Temperature Range -65 to +325 °F See Graph
Temperature Response See Graph
Enclosure Rating IP68 [1]

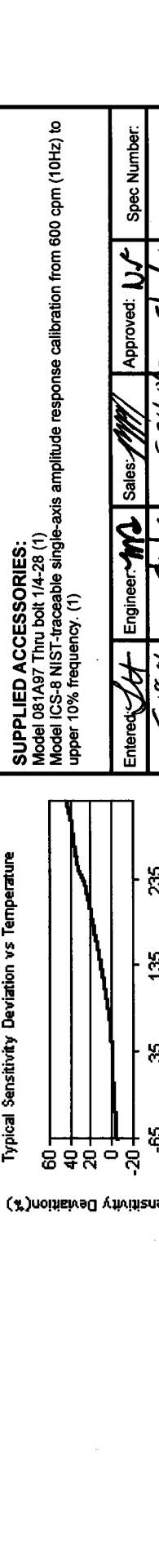
Electrical
Settling Time (within 1% of bias) ≤ 2 sec
Discharge Time Constant ≥ 0.2 sec
Excitation Voltage 18 to 28 VDC
Constant Current Excitation 2 to 10 mA
Output Impedance <150 ohm
Output Bias Voltage 8 to 15 VDC
Spectral Noise (10 Hz) 8 µg/√Hz [1]
Spectral Noise (100 Hz) 2 µg/√Hz [1]
Spectral Noise (1 kHz) 1 µg/√Hz [1]
Electrical Isolation >10⁸ ohm

Physical
Size (Diameter x Height) 1.13 in x 0.82 in 28.7 mm x 20.8 mm
Weight 3 oz 86 gm
Mounting Stud
Mounting Thread 1/4-28 Male
Mounting Torque 2 to 5 ft-lb 2.7 to 6.8 N-m
Sensing Element Ceramic
Sensing Geometry Shear
Housing Material Stainless Steel
Sealing Welded Hermetic
Electrical Connector 2-Pin MIL-C-5015
Electrical Connector Position Side

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] 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.

SUPPLIED ACCESSORIES:
Model 081A97 Thru bolt 1/4-28 (1)
Model ICS-8 NIST-traceable single-axis amplitude response calibration from 600 cpm (10Hz) to upper 10% frequency. (1)



IMI SENSORS
A PCB PIEZOTRONICS DIV.
3425 Walden Avenue, Depew, NY 14043

Phone: 800-959-4464
Fax: 716-684-3823
E-Mail: imi@pcb.com

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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. ICP® is a registered trademark of PCB Group, Inc.