# 9000A Sensor

## General Purpose

### SPECIFICATIONS

#### DYNAMIC
- **Sensitivity, ±5%, 25°C**: 100 mV/g
- **Acceleration Range**: 50 g peak
- **Amplitude Nonlinearity**: 1%
- **Frequency Response, nominal**: 1.2 - 5,000 Hz, 0.9 - 8,000 Hz, 0.4 - 10,000 Hz
- **Resonance Frequency**: 28 kHz
- **Transverse Sensitivity, max**: 5% of axial
- **Temperature Response**: See graph

#### ELECTRICAL
- **Power Requirement**: 18 - 28 VDC, 2 - 20 mA
- **Electrical Noise, equiv. g, nominal**: 300 µg (1 Hz to 10 kHz), 8 µg/√Hz (10 Hz), 3 µg/√Hz (100 Hz), 2.5 µg/root Hz (1,000 Hz)
- **Output Impedance, max**: 150 Ohms
- **Bias Output Voltage, nominal**: 8 - 12 VDC
- **Grounding**: Case isolated, internally shielded

#### ENVIRONMENTAL
- **Temperature Range**: -54 to 121°C
- **Shock Limit**: 5,000 g peak

#### PHYSICAL
- **Weight**: 48.6 grams
- **Case Material**: Stainless steel
- **Mounting**: 1/4 - 28 tapped hole
- **Output Connector**: MIL-C-5015 style, 2-pin
- **Pin A**: Signal, Power
- **Pin B**: Common

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[Diagram of the sensor]
NOTES:
1. To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables.
2. A maximum current of 6 mA is recommended for operating temperatures in excess of 100 °C.

ACCESSORIES SUPPLIED: mounting stud, Calibration Data

* Ordering Information

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<tr>
<th>Model</th>
<th>Description</th>
<th>P/N</th>
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<td>9000A</td>
<td>General Purpose Accelerometer - 100 mV/g, Top Exit, Mil Spec connector.</td>
<td>E43781i</td>
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