Model 787A
Low profile, general purpose accelerometer

**Dynamic**
- Sensitivity, ±10%, 25°C: 100 mV/g
- Acceleration range: 80 g peak
- Amplitude nonlinearity: 1%
- Frequency response:
  - ±10%: 1.0 - 5,000 Hz
  - ±3 dB: 0.7 - 10,000 Hz
- Resonance frequency: 22 kHz
- Transverse sensitivity, max: 5% of axial
- Temperature response:
  - -50°C: -5%
  - +120°C: +5%

**Electrical**
- Power requirement: voltage source: 18 - 30 VDC
- current regulating diode: 2 - 10 mA
- Electrical noise, equiv. g:
  - Broadband: 700 µg
  - Spectral:
    - 2.5 Hz to 25 kHz: 10 µg/VHz
    - 10 Hz to 100 Hz: 5 µg/VHz
    - 1000 Hz: 5 µg/VHz
- Output impedance, max: 100 Ω
- Bias output voltage: 12 VDC
- Grounding: case isolated, internally shielded

**Environmental**
- Temperature range: -50 to 120°C
- Vibration limit: 500 g
- Shock limit, min: 5,000 g
- Electromagnetic sensitivity, equiv. g, max: 70 µg/gauss
- Sealing: hermetic
- Base strain sensitivity, max: 0.002 g/µstrain

**Physical**
- Sensing element design: PZT ceramic / shear
- Weight: 145 grams
- Case material: 316L stainless steel
- Mounting: 1/4 - 28 captive hex head screw with 0.046” diameter safety wire hole
- Output connector: 2 pin, MIL-C-5015 style
- Mating connector: R6 type
- Recommended cabling: J10 / J9T2A

<table>
<thead>
<tr>
<th>Connector pin</th>
<th>Function</th>
<th>Cable conductor color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell</td>
<td>ground</td>
<td>Shield</td>
</tr>
<tr>
<td>A</td>
<td>power/ signal</td>
<td>White</td>
</tr>
<tr>
<td>B</td>
<td>common</td>
<td>Black</td>
</tr>
</tbody>
</table>

**Features**
- Corrosion resistant
- Hermetic design
- Ground isolated
- ESD protection
- Reverse wiring protection
- Mounts in any orientation

Accessories supplied: #80165-01 captive hex head screw; calibration data (level 2).