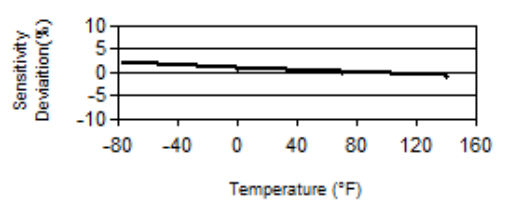


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|--------------------------------|------------------------------------|-----------------------------|
| Model Number 356M131 | TRIAxIAL ICP® ACCELEROMETER | Revision: C ECN #: 45989 |
|--------------------------------|------------------------------------|-----------------------------|

| Performance | <u>ENGLISH</u> | <u>SI</u> | |
|--------------------------------------|-----------------------------|-------------------------|-----|
| Sensitivity(± 15 %)(@ 80 Hz) | 10 mV/g | 1.02 mV/(m/s²) | |
| Measurement Range | ± 500 g pk | ± 4905 m/s² pk | |
| Frequency Range(± 5 %) | 2 to 3000 Hz | 2 to 3000 Hz | |
| Resonant Frequency | ≥ 40 kHz | ≥ 40 kHz | |
| Broadband Resolution(1 to 10,000 Hz) | 0.004 g rms | 0.04 m/s² rms | [1] |
| Non-Linearity | ≤ 1 % | ≤ 1 % | [2] |
| Transverse Sensitivity | ≤ 5 % | ≤ 5 % | |
| TEDS Compliant | Yes | Yes | [3] |
| Environmental | | | |
| Overload Limit(Shock) | ± 10,000 g pk | ± 98,100 m/s² pk | |
| Temperature Range(Operating) | -76 to +140 °F | -60 to +60 °C | |
| Temperature Range(Storage) | -310 to +250 °F | -190 to +121 °C | |
| Temperature Response | See Graph | See Graph | [1] |
| Base Strain Sensitivity | ≤ 0.001 g/με | ≤ 0.01 (m/s²)/με | [1] |
| Electrical | | | |
| Excitation Voltage | 20 to 30 VDC | 20 to 30 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | ≤ 100 Ohm | ≤ 100 Ohm | |
| Output Bias Voltage | 8 to 13 VDC | 8 to 13 VDC | |
| Discharge Time Constant | 0.25 to 1.5 sec | 0.25 to 1.5 sec | |
| Settling Time(within 10% of bias) | <10 sec | <10 sec | |
| Spectral Noise(1 Hz) | 1910 μg/√Hz | 18,737 (μm/sec²)/√Hz | [1] |
| Spectral Noise(10 Hz) | 336 μg/√Hz | 3296 (μm/sec²)/√Hz | [1] |
| Spectral Noise(100 Hz) | 75 μg/√Hz | 736 (μm/sec²)/√Hz | [1] |
| Spectral Noise(1 kHz) | 19 μg/√Hz | 186 (μm/sec²)/√Hz | [1] |
| Spectral Noise(10 kHz) | 13 μg/√Hz | 128 (μm/sec²)/√Hz | [1] |
| Physical | | | |
| Sensing Element | Quartz | Quartz | |
| Sensing Geometry | Shear | Shear | |
| Housing Material | Titanium | Titanium | |
| Sealing | Hermetic | Hermetic | |
| Size (Height x Length x Width) | 0.55 in x 0.80 in x 0.55 in | 14 mm x 20.3 mm x 14 mm | [1] |
| Weight | 0.32 oz | 9.0 gm | |
| Electrical Connector | 1/4-28 4-Pin | 1/4-28 4-Pin | |
| Electrical Connection Position | Side | Side | |
| Mounting Thread | 10-32 Female | 10-32 Female | |
| Mounting Torque | 10 to 20 in-lb | 113 to 225 N-cm | |

Typical Sensitivity Deviation vs Temperature



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.
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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.

TLA - TEDS LMS International - Free Format
TLB - TEDS LMS International - Automotive Format
TLC - TEDS LMS International - Aeronautical Format

Output Bias Voltage 8 to 13 VDC 8 to 13 VDC

TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4

NOTES:

[1] Typical.
 [2] Zero-based, least-squares, straight line method.
 [3] TEDS Capable Digital Memory and Communication, compliant with IEEE P1451.4

SUPPLIED ACCESSORIES:
 Model 080A178 Adhesive Mounting Base with Integral Stud (1)
 Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)

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|-----------------|-----------------|-----------------|-----------------|--------------|
| Entered: LK | Engineer: RB | Sales: RWM | Approved: BAM | Spec Number: |
| Date: 4/13/2017 | Date: 4/13/2017 | Date: 4/13/2017 | Date: 4/13/2017 | 22935 |

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