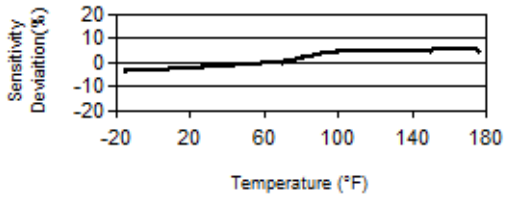
| Model Number | | Revision: H |
|---|---|---|
| 393B04 | | ECN #: 52850 |

| Performance | ENGLISH | SI | |
|---|---|---|---|
| Sensitivity(± 10 %) | 1,000 mV/g | 102 mV/(m/s²) | |
| Measurement Range | ± 5 g pk | ± 49 m/s² pk | |
| Frequency Range(± 5 %) | 0.06 to 450 Hz | 0.06 to 450 Hz | |
| Frequency Range(± 10 %) | 0.05 to 750 Hz | 0.05 to 750 Hz | |
| Frequency Range(± 3 dB) | 0.02 to 1,700 Hz | 0.02 to 1,700 Hz | |
| Resonant Frequency | ≥ 2,500 Hz | ≥ 2,500 Hz | |
| Broadband Resolution(1 to 10,000 Hz) | 0.000003 g rms | 0.00003 m/s² rms | [1] |
| Non-Linearity | ≤ 1 % | ≤ 1 % | [2] |
| Transverse Sensitivity | ≤ 5 % | ≤ 5 % | [3] |
| **Environmental** | | | |
| Overload Limit(Shock) | ± 300 g pk | ± 2,950 m/s² pk | |
| Temperature Range | -15 to +176 °F | -26 to +80 °C | |
| Temperature Response | See Graph | See Graph | |
| Base Strain Sensitivity | ≤ 0.0005 g/με | ≤ 0.005 (m/s²)/με | [1] |
| **Electrical** | | | |
| Excitation Voltage | 18 to 30 VDC | 18 to 30 VDC | |
| Constant Current Excitation | 2 to 10 mA | 2 to 10 mA | |
| Output Impedance | < 500 Ohm | < 500 Ohm | |
| Output Bias Voltage | 7 to 12 VDC | 7 to 12 VDC | |
| Discharge Time Constant | 5 to 15 sec | 5 to 15 sec | |
| Settling Time | < 100 sec | < 100 sec | |
| Spectral Noise(1 Hz) | 0.30 μg/√Hz | 2.9 (μm/sec²)/√Hz | [1] |
| Spectral Noise(10 Hz) | 0.10 μg/√Hz | 1.0 (μm/sec²)/√Hz | [1] |
| Spectral Noise(100 Hz) | 0.04 μg/√Hz | 0.4 (μm/sec²)/√Hz | [1] |
| Spectral Noise(1 kHz) | 0.04 μg/√Hz | 0.4 (μm/sec²)/√Hz | [1] |
| **Physical** | | | |
| Sensing Element | Ceramic | Ceramic | |
| Sensing Geometry | Flexural | Flexural | |
| Housing Material | Titanium | Titanium | |
| Sealing | Hermetic | Hermetic | |
| Size (Diameter x Height) | 0.99 in x 1.28 in | 25 mm x 32.5 mm | |
| Weight | 1.8 oz | 50 gm | [1] |
| Electrical Connector | 10-32 Coaxial Jack | 10-32 Coaxial Jack | |
| Electrical Connection Position | Top | Top | |
| Mounting Thread | 10-32 Female | 10-32 Female | |

CE[4]

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.

**T** - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4

**TLA** - TEDS LMS International - Free Format

**TLB** - TEDS LMS International - Automotive Format

**TLC** - TEDS LMS International - Aeronautical Format

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

| | | |
|---|---|---|
| Excitation Voltage | 20 to 30 VDC | 20 to 30 VDC |
| Output Bias Voltage | 7.5 to 13 VDC | 7.5 to 13 VDC |

**W** - Water Resistant Cable

| | | |
|---|---|---|
| Electrical Connection Position | Top | Top |
| Electrical Connector | Sealed Integral Cable | Sealed Integral Cable |

## NOTES:

[1]Typical.
[2]Zero-based, least-squares, straight line method.
[3]Transverse sensitivity is typically ≤ 3%.
[4]See PCB Declaration of Conformance PS023 for details.

## SUPPLIED ACCESSORIES:

Model 081B05 Mounting Stud (10-32 to 10-32) (1)
Model 085A41 Thermal Boot (1)
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
Model ACS-4 Single axis, low frequency phase and amplitude response cal from 0.5 to 10 Hz (1)
Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

| Entered: ND | Engineer: BAM | Sales: KK | Approved: BAM | Spec Number: |
|---|---|---|---|---|
| Date: 05/16/2022 | Date: 05/16/2022 | Date: 05/16/2022 | Date: 05/16/2022 | 17026 |

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