

| | ENGLISH | SI | |
|--------------------------------------|-----------------------|-------------------------------|-----|
| Performance | | | |
| Sensitivity (±20 %) | 100 mV/g | 10.2 mV/(m/s ²) | [2] |
| Measurement Range | ±50 g | ± 490 m/s ² | |
| Frequency Range (±3 dB) | 16 to 600000 cpm | 0.27 to 10000 Hz | [3] |
| Resonant Frequency | 960 kcpm | 16 kHz | [1] |
| Broadband Resolution (1 to 10000 Hz) | 50 µg | 491 µm/s ² | [1] |
| Non-Linearity | ±1 % | ±1 % | [4] |
| Transverse Sensitivity | ≤7 % | ≤7 % | |
| Environmental | | | |
| Overload Limit (Shock) | 5000 g pk | 49050 m/s ² pk | |
| Temperature Range | -65 to +250 °F | -54 to +121 °C | |
| Enclosure Rating | IP68 | IP68 | |
| Electrical | | | |
| Settling Time (within 1% of bias) | ≤4.0 sec | ≤4.0 sec | |
| Discharge Time Constant | ≥0.6 sec | ≥0.6 sec | |
| Excitation Voltage | 18 to 28 VDC | 18 to 28 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | <150 ohms | <150 ohms | |
| Output Bias Voltage | 8 to 12 VDC | 8 to 12 VDC | |
| Spectral Noise (10 Hz) | 3.2 µg/√Hz | 31.0 (µm/s ²)/√Hz | [1] |
| Spectral Noise (100 Hz) | 1.0 µg/√Hz | 9.81 (µm/s ²)/√Hz | [1] |
| Spectral Noise (1 kHz) | 0.7 µg/√Hz | 6.94 (µm/s ²)/√Hz | [1] |
| Electrical Isolation (Case) | >10 ⁸ ohms | >10 ⁸ ohms | |
| Physical | | | |
| Size (Hex x Height) | 7/8 in x 4.2 in | 22 mm x 107 mm | |
| Weight (without cable) | 2.8 oz | 80 gm | |
| Mounting Thread | 1/4-28 Female | Not Applicable | [5] |
| Mounting Torque | 2 to 5 ft-lb | 2.7 to 6.8 N-m | |
| Sensing Element | Ceramic | Ceramic | |
| Sensing Geometry | Shear | Shear | |
| Housing Material | Stainless Steel | Stainless Steel | |
| Sealing | Welded Hermetic | Welded Hermetic | |
| Electrical Connector | Molded Integral Cable | Molded Integral Cable | |
| Electrical Connection Position | Top | Top | |
| Cable Length | 10 ft | 3 m | |
| Cable Type | Polyurethane | Polyurethane | [6] |

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.

M - Metric Mount
Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)

TO - Temperature Output

| | | |
|--------------------------------|---------------------|---------------------|
| Temperature Output Range | +36 to +250 °F | +2 to +121 °C |
| Temperature Scale Factor | 5.56 mV/°F + 32 | +10 mV/°C |
| Electrical Connections (Red) | Acceleration Output | Acceleration Output |
| Electrical Connections (Black) | Ground | Ground |
| Electrical Connections (White) | Temperature Output | Temperature Output |
| Electrical Connections (Green) | Ground | Ground |

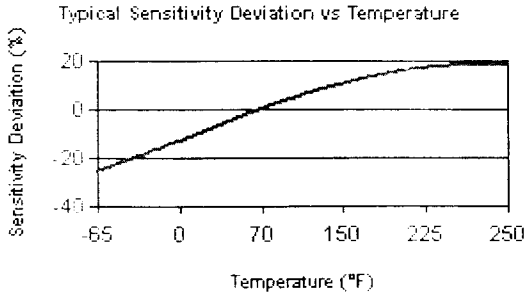
NOTES:

[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.
 [6] Twisted shielded pair.
 [7] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 081A40 Mounting Stud (1)
 Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

| | | | | |
|----------------------|-----------------------|----------------------|----------------------|-------------|
| Entered: <i>N.F.</i> | Engineer: <i>N.F.</i> | Sales: <i>BTJ</i> | Approved: <i>MA</i> | Spec Number |
| Date: <i>6/21/02</i> | Date: <i>6/21/02</i> | Date: <i>6/21/02</i> | Date: <i>6/24/02</i> | 5583 |



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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