

| | ENGLISH | SI | |
|--------------------------------------|----------------------|---------------------------------|-----|
| Performance | | | |
| Sensitivity (±10 %) | 100 mV/g | 10.2 mV/(m/s ²) | [2] |
| Measurement Range | ±50 g | ±490 m/s ² | |
| Frequency Range (±3 dB) | 30 to 600000 cpm | 0.5 to 10000 Hz | [3] |
| Resonant Frequency | 1500 kcpm | 25 kHz | [1] |
| Broadband Resolution (1 to 10000 Hz) | 350 µg | 3434 µm/sec 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 | [1] |
| Temperature Response | See Graph | See Graph | |
| Enclosure Rating | IP68 | IP68 | |
| Electrical | | | |
| Settling Time (within 1% of bias) | ≤2.0 sec | ≤2.0 sec | |
| Discharge Time Constant | ≥0.3 sec | ≥0.3 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 ohm | <150 ohm | |
| Output Bias Voltage | 8 to 12 VDC | 8 to 12 VDC | |
| Spectral Noise (10 Hz) | 8 µg/√Hz | 78.5 (µm/sec ²)/√Hz | [1] |
| Spectral Noise (100 Hz) | 5 µg/√Hz | 49.1 (µm/sec ²)/√Hz | [1] |
| Spectral Noise (1 kHz) | 4 µg/√Hz | 39.2 (µm/sec ²)/√Hz | [1] |
| Electrical Isolation (Case) | >10 ⁸ ohm | >10 ⁸ ohm | |
| Physical | | | |
| Size (Hex x Height) | 11/16 in x 1.65 in | 18 mm x 42.2 mm | |
| Weight | 1.8 oz | 51 gm | |
| Mounting Thread | 1/4-28 Female | No Metric Equivalent | [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 | 2-Pin MIL-C-5015 | 2-Pin MIL-C-5015 | |
| Electrical Connection Position | Top | Top | |

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

| | | |
|---|---|---|
| EX - Hazardous Area Approval- contact factory for specific approvals | | |
| Hazardous Area Approval | CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4 | CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4 |
| Hazardous Area Approval | EEx nL IIC T4, - 40°C≤Ta≤121°C, II 1 G | EEx nL IIC T4, - 40°C≤Ta≤121°C, II 1 G |
| Hazardous Area Approval | CI I, Div I, Groups A, B, C, D; CI II, Div I, Groups E, F, G; CI III, Div I | CI I, Div I, Groups A, B, C, D; CI II, Div I, Groups E, F, G; CI III, Div I |
| Hazardous Area Approval | Exia IIC T4, AExia IIC, T4 | Exia IIC T4, AExia IIC, T4 |
| Hazardous Area Approval | EEx nL IIC T4, - 40°C≤Ta≤121°C, II 3 G | EEx nL IIC T4, - 40°C≤Ta≤121°C, II 3 G |

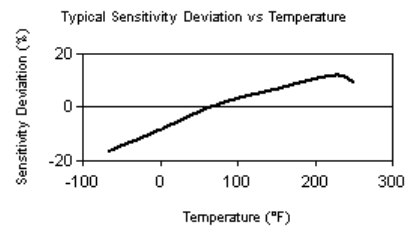
M - Metric Mount
Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1

| | | |
|--------------------------------|------------------|------------------|
| 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 Connector | 3-Pin MIL-C-5015 | 3-Pin MIL-C-5015 |
| Electrical Connections (Pin A) | Acceleration | Acceleration |
| | Output | Output |
| Electrical Connections (Pin B) | Ground | Ground |
| Electrical Connections (Pin C) | Temperature | Temperature |
| | Output | Output |
| Size (Height) | 1.86 in | 47.2 in |
| Weight | 2.0 oz | 56.7 oz |

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] See PCB Declaration of Conformance PS023 or PS060 for details.

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

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|------------------|------------------|------------------|------------------|--------------|
| Entered: LLH | Engineer: JEC | Sales: NJF | Approved: LLH | Spec Number: |
| Date: 01/29/2007 | Date: 01/31/2007 | Date: 01/31/2007 | Date: 02/02/2007 | 13145 |



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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