

| | ENGLISH | SI | |
|--------------------------------------|----------------------|---------------------------------|-----|
| Performance | | | |
| Sensitivity (±5 %) | 100 mV/g | 10.2 mV/(m/s ²) | [2] |
| Measurement Range | ±50 g | ±490 m/s ² | |
| Frequency Range (±5 %) | 144 to 480000 cpm | 2.4 to 8000 Hz | [3] |
| Frequency Range (±10 %) | 102 to 600000 cpm | 1.7 to 10000 Hz | |
| Frequency Range (±3 dB) | 48 to 900000 cpm | 0.8 to 15000 Hz | |
| Resonant Frequency | 2400 kcpm | 40 kHz | [1] |
| Broadband Resolution (1 to 10000 Hz) | 100 µg | 981 µm/sec ² | [1] |
| Non-Linearity | ±1 % | ±1 % | [4] |
| Transverse Sensitivity | ≤5 % | ≤5 % | |
| 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) | ≤2.0 sec | ≤2.0 sec | |
| Discharge Time Constant | ≥0.2 sec | ≥0.2 sec | |
| Excitation Voltage | 18 to 28 VDC | 18 to 28 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | <100 Ohm | <100 Ohm | |
| Output Bias Voltage | 8 to 12 VDC | 8 to 12 VDC | |
| Spectral Noise (10 Hz) | 7.0 µg/√Hz | 68.7 (µm/sec ²)/√Hz | [1] |
| Spectral Noise (100 Hz) | 2.8 µg/√Hz | 27.5 (µm/sec ²)/√Hz | [1] |
| Spectral Noise (1 kHz) | 0.9 µg/√Hz | 8.8 (µm/sec ²)/√Hz | [1] |
| Electrical Protection | RFI/ESD | RFI/ESD | |
| Electrical Isolation | >10 ⁸ Ohm | >10 ⁸ Ohm | |
| Physical | | | |
| Size (Hex x Height) | 11/16 in x 1.97 in | 17.5 mm x 50 mm | |
| Weight | 1.80 oz | 51 gm | |
| Mounting Thread | 1/4-28 Female | 1/4-28 Female | [5] |
| Mounting Torque | 2 to 5 ft-lb | 2.7 to 6.8 Nm | |
| 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.)

CS - Canadian Standards Association Approved Intrinsically Safe

| | | |
|-------------------------|---|---|
| | 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 | 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 |

EX - Hazardous Area Approval- contact factory for specific approvals

| | | |
|--|--|--|
| | EEx ia IIC T4, - 54°C≤Ta≤121°C, II 1 G | EEx ia IIC T4, - 54°C≤Ta≤121°C, II 1 G |
|--|--|--|

LB - Low Bias Voltage

| | | |
|---------------------|--------------|-----------------------|
| | 6 to 8 VDC | 6 to 8 VDC |
| Output Bias Voltage | 12 to 28 VDC | 12 to 28 VDC |
| Excitation Voltage | ±35 g | ±343 m/s ² |
| Measurement Range | | |

M - Metric Mount
Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1 replaces Model 081A40

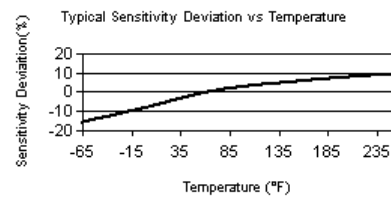
MS - Mine Safety & Health Administration Certification

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 PS061 for details.

Supplied Accessories
 081A40 Mounting Stud (1)
 ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)

| | | | | |
|------------------|------------------|------------------|------------------|--------------|
| Entered: BLS | Engineer: JEC | Sales: NJF | Approved: BLS | Spec Number: |
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3425 Walden Avenue
 Depew, NY 14043
 UNITED STATES
 Phone: 716-684-0003
 Fax: 716-684-3823
 E-mail: imi@pcb.com
 Web site: www.imi-sensors.com

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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