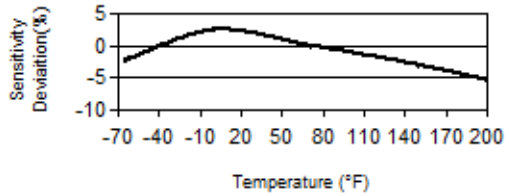
| Model Number | INDUSTRIAL 3-WIRE ACCELEROMETER | Revision: A |
|---|---|---|
| **66103PPZ1** | | ECN #: 46956 |

| **Performance** | **ENGLISH** | **SI** | |
|---|---|---|---|
| Sensitivity(± 20 %) | 10 mV/g | 1.02 mV/(m/s²) | [2][3] |
| Measurement Range | ± 200 g | ± 2000 m/s² | [4] |
| Frequency Range(± 3 dB) | 0.5 to 10k Hz | 0.5 to 10k Hz | [5][6] |
| Resonant Frequency | >25 kHz | >25 kHz | [6] |
| Broadband Resolution | 0.0049 g rms | 0.048069 m/s² rms | [1] |
| Non-Linearity | ≤ 1 % | ≤ 1 % | [7] |
| Transverse Sensitivity | ≤ 7 % | ≤ 7 % | |
| **Environmental** | | | |
| Overload Limit(Shock) | 5000 g pk | 49k m/s² pk | |
| Temperature Range(Operating) | -65 to +185 °F | -54 to +85 °C | |
| Temperature Response | See Graph | See Graph | [1] |
| **Electrical** | | | |
| Settling Time(within 1% of bias) | ≤ 2.5 sec | ≤ 2.5 sec | |
| Discharge Time Constant | ≥ 0.3 sec | ≥ 0.3 sec | |
| Excitation Voltage | 3 to 12 VDC | 3 to 12 VDC | |
| Output Impedance | <100 Ohm | <100 Ohm | |
| Current Draw | 0.75 mA | 0.75 mA | [1] |
| Output Bias Voltage(± 10 %) | 0.5 x Excitation Voltage | 0.5 x Excitation Voltage | |
| Spectral Noise(10 Hz) | 103 µg/√Hz | 1010 (µm/sec$^2$)/√Hz | [1] |
| Spectral Noise(100 Hz) | 56 µg/√Hz | 549 (µm/sec$^2$)/√Hz | [1] |
| Spectral Noise(1 kHz) | 46 µg/√Hz | 451 (µm/sec$^2$)/√Hz | [1] |
| **Physical** | | | |
| Size (Lip Diameter x Height) | 0.36 in x 0.26 in | 9.1 mm x 6.6 mm | |
| Weight | 0.08 oz | 2.2 gm | |
| Mounting | Adhesive/Solder | Adhesive/Solder | |
| Sensing Element | Ceramic | Ceramic | |
| Sensing Geometry | Shear | Shear | |
| Housing Material | Stainless Steel | Stainless Steel | |
| Sealing | Welded Hermetic | Welded Hermetic | |
| Electrical Connector | Header Pins | Header Pins | |
| Electrical Connection Position | Bottom | Bottom | |
| Electrical Connections(Pin 1) | Acceleration Output | Acceleration Output | |
| Electrical Connections(Pin 2) | Neg (-) Ground | Neg (-) Ground | |
| Electrical Connections(Pin 3) | Pos (+) VDC | Pos (+) VDC | |

CE[8]

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.*

ICP® is a registered trademark of PCB Group, Inc.

**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.

**HT** - High temperature, extends normal operation temperatures

| | | |
|---|---|---|
| Temperature Range(Operating) | -65 to 250 °F | -54 to 121 °C |

**RH** - RoHS Compliant

**NOTES:**

[1] Typical.
[2] Positive output along Z-axis (in upward direction when pin mounted).
[3] Conversion Factor 1g = 9.81 m/s².
[4] Measurement range achieved is dependent upon excitation voltage.
[5] The high frequency tolerance is accurate within ±10% of the specified frequency.
[6] Performance depends on mounting
[7] Zero-based, least-squares, straight line method.
[8] See PCB Declaration of Conformance PS023 or PS060 for details.

**SUPPLIED ACCESSORIES:**

Model ICS-2 NIST-traceable single-point amplitude response calibration at 6000 cpm (100 Hz) for each axis (1)

| Entered: LK | Engineer: BAM | Sales: WDC | Approved: BAM | Spec Number: |
|---|---|---|---|---|
| Date: 8/8/2017 | Date: 8/8/2017 | Date: 8/8/2017 | Date: 8/8/2017 | **56240** |


IMI SENSORS
A PCB PIEZOTRONICS DIV.
3425 Walden Avenue, Depew, NY 14043

**Phone: 800-959-4464**
**Fax: 716-684-3823**
**E-Mail: imi@pcb.com**