IMI SENSORS
A PCB PIEZOTRONICS DIV.

MODELS **608A11**

# LOW COST, INDUSTRIAL ICP® ACCELEROMETER

- Small Size (9/16 inch footprint); 100 mV/g Sensitivity
- Integral Cable
- Submersible and Chemically Resistant
- Withstands Temperatures to +250 °F (+121 °C)
- 30 to 600k cpm Frequency Range (0.5 to 10k Hz)
- Intrinsically Safe Models Available

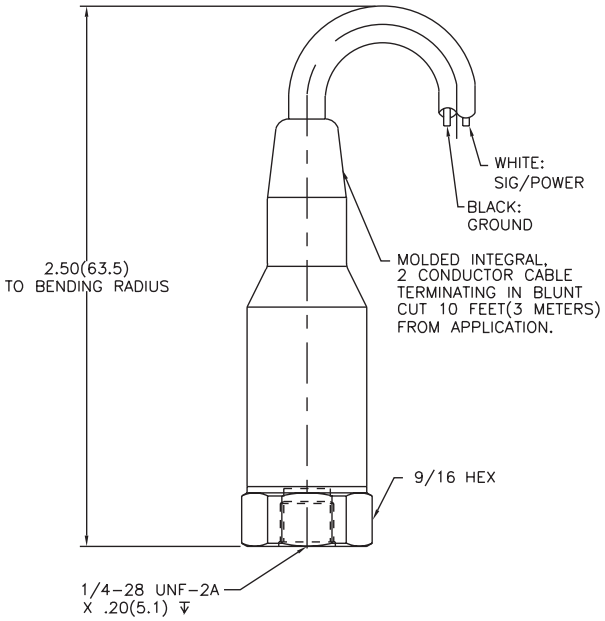
## SMALL SIZE CONVENIENTLY INSTALLS INTO TIGHT PLACES

Smaller, lower-cost vibration sensors are making permanent installation for online monitoring of critical industrial machinery a more attractive undertaking. Whether new to predictive maintenance, or already benefitting from reduced downtime and maintenance costs, many will now find it easier to implement additional measurement points. Model 608A11 industrial ICP® accelerometer offers features most requested by Vibration Technologists and Reliability Engineers.

The small size permits installation into confined locations. Durable stainless steel construction and hermetic sealing withstand chemical contamination and submerged installations. The integral cable facilitates easy connection to junction boxes or collection point switch boxes. The 100 mV/g, low-noise signal is accurate through 600k cpm (10k Hz), is isolated from ground noise, and can be transmitted over long distances. Together with its competitive price, Model 608A11 represents one of the best value for sensors in the industry.

As with all equipment from PCB®, these sensors are complemented with toll-free applications assistance, 24-hour customer service, and are backed by a no-risk policy that guarantees satisfaction or your money refunded.

| SPECIFICATIONS | |
|---|---|
| **Model** | **608A11** |
| **Performance** | |
| Sensitivity (± 15 %) | 100 mV/g<br>10.2 mV/(m/s²) |
| Measurement Range | ± 50 g<br>± 490 m/s² |
| Frequency Range (± 3 dB) | 30 to 600k cpm<br>0.5 to 10k Hz |
| Resonant Frequency | 1320 kcpm<br>22 kHz |
| Broadband Resolution (1 to 10,000 Hz) | 350 mg<br>3434 mm/s² |
| Non-Linearity | ± 1% |
| Transverse Sensitivity | ≤ 7% |
| **Environmental** | |
| Overload Limit (Shock) | 5000 g pk<br>49,050 m/s² pk |
| Temperature Range | -65 to +250 °F<br>-54 to +121 °C |
| Enclosure Rating | IP68 |
| **Electrical** | |
| Settling Time (within 1% of bias) | ≤ 2.0 sec |
| Discharge Time Constant | ≥ 0.3 sec |
| Excitation Voltage | 18 to 28 VDC |
| Constant Current Excitation | 2-20 mA |
| Output Impedance | < 150 ohms |
| Output Bias Voltage | 8 to 12 VDC |
| Spectral Noise (10 Hz) | 8 µg/√Hz<br>78.5 (µm/s²)/√Hz |
| Spectral Noise (100 Hz) | 5 µg/√Hz<br>49.1 (µm/s²)/√Hz |
| Spectral Noise (1k Hz) | 4 µg/√Hz<br>39.2 (µm/s²)/√Hz |
| Electrical Isolation (Case) | >108 ohms |
| Mechanical | |
| Size (Hex x Height) | 9/16 in x 2.5 in<br>9/16 in x 64 mm |
| Weight (with cable) | 3.5 oz<br>99.3 gm |
| Mounting Thread | 1/4-28 Female<br>1/4-28 Female |
| Mounting Torque | 2 to 5 ft-lb<br>2.7 to 6.8 N-m |
| Sensing Element / Geometry | Ceramic Shear |
| Housing Material | Stainless Steel |
| Electrical Connection / Position | Molded Integral Cable / Top |
| Cable Length | 10 ft<br>3 m |
| Cable Type | 042 Polyurethane |
| **Optional Versions (specify using prefix letter shown)** | |
| M — Metric Mount | Via supplied Model M081A61 Mounting Stud 1/4-28 to M6 x 1 |
| TO — Temperature Output | Adds third cable conductor with +10 mV/°C (5.56 mV/ °F + 32) output signal |
| EX — Intrinsically Safe | ATEX and CSA Certified |




## Available Versions

**Model 608A11** — Standard 10 ft (3m) integral cable
**Model 608A11/020BZ** — 20 ft (6m) integral cable

## Accessories

(supplied with standard version)

Model 081A40 mounting stud with 1/4-28 thread Single point NIST traceable calibration at 6000 cpm (100 Hz)

CE These products conform to applicable European Directives for CE marking.


IMI SENSORS
A PCB PIEZOTRONICS DIV.

**3425 Walden Avenue, Depew, NY 14043-2495 USA**
Toll-Free in the USA: **1 800 959 4464**
Phone: **1 716 684 0003** | Email: **imi@pcb.com**


IMI Sensors, a division of PCB Piezotronics, Inc. manufactures industrial vibration monitoring instrumentation, such as accelerometers, vibration transmitters and switches that feature rugged stainless steel housings and survive in harsh environments like paper and steel mills, mines, gas turbines, water treatment facilities and power plants. Integrating with portable analyzers and PLC's, IMI instrumentation helps maintenance departments reduce downtime and protect critical machinery. Visit IMI Sensors at www.pcb.com. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corporation. Additional information on MTS can be found at www.mts.com.




IMI-VIB-608A11-0919