Industrial ICP®
Triaxial Accelerometers

Measures vibration in the horizontal, vertical and axial directions simultaneously.

Highlights
- Three concurrent readings reduce labor time and increase measurement consistency
- Through-bolt design ideal for spaces with limited clearance
- Wide variety of options available to accommodate most industrial applications:
  - 10 mV/g and 100 mV/g sensitivities
  - Top and side connector positions
  - Integral polyurethane and armored polyurethane cable options

Typical Applications
- Multi-axis route-based PdM with two or three channel data collector
- Machinery foundation troubleshooting
- Radial vs. axial motor bearing vibration monitoring
- Structural impulse and response studies

Hazardous Area Approvals

**CSA (Canada & US unless otherwise noted)**
- AEx/Ex ic IIC T4 Gc Class I, Div. 1, Groups A, B, C, D (EX629A11A/)
- AEx/Ex ic IIC T4 Gc Class I, Zone 2 (EX629A11A/)
- AEx/Ex ia IIC T4 Ga Class I, Division 1, Groups A, B, C, D (EX639A91)
- AEx/Ex ia IIC T4 Ga Class I, Division 2, Groups A, B, C, D (EX639A91)
- AEx/Ex ia IIC T4 Ga Class I, Zone 0 (EX639A91)
- Ex ia T4 Class I, Division 1, Groups C, D (Canada only) (CS604B31)

**ATEX**
- Ex ic IIC T4 Gc (EX629A11A/)
- Ex nA IIC T4 Gc (EX629A11A/)
**Industrial ICP® Triaxial Accelerometers**

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### Technical Specifications

**Model Number** | **EX629A11A**
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**Performance**
- **Sensitivity** | 100 mV/g
- **Measurement Range** | ± 50 g
- **Frequency Range: X (±3 dB)** | 0.5 to 5,000 Hz
- **Frequency Range: Y (±3 dB)** | 0.5 to 5,000 Hz
- **Frequency Range: Z (±3 dB)** | 0.5 to 5,000 Hz
- **Resonant Frequency** | 10 kHz
- **Broadband Resolution** | 350 μg
- **Non-Linearity** | ±1%
- **Transverse Sensitivity** | αX, αY, αZ

**Environmental**
- **Overload Limit (Shock)** | 5,000 g pk
- **Temperature Range** | -65 to +250 °F
- **Hazardous Area Approval** | N/A
- **Enclosure Rating** | IP68

**Electrical**
- **Current Limit** | 2 to 20 mA
- **Voltage Limit** | 18 to 28 VDC

**Physical**
- **Sensing Element** | Ceramic
- **Sensing Geometry** | Shear
- **Housing Material** | Stainless Steel
- **Sealing** | Welded Hermetic
- **Mounting Thread** | 1/4-28 Male
- **Mounting Torque** | 2 to 5 lb-ft
- **Electrical Connector** | 4-Pin Bayonet
- **Electrical Connector Position** | Side
- **Cable Type** | Polyurethane
- **Cable Length** | N/A
- **Size (W x L x H)** | 35.1 x 25.4 x 38.1 mm
- **Weight (Without Cable)** | 3.9 oz

**Similar Models**
- **100 mV/g & Int Cable** | EX629A11A
- **100 mV/g & Int Armored Cable** | EX629A11A
- **100 mV/g & 6 Pin Connector** | EX629A11A
- **10 mV/g & Int Cable** | EX629A11A
- **10 mV/g & Int Armored Cable** | EX629A11A

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IMI Sensors designs and manufactures a full line of accelerometers, sensors, vibration switches, vibration transmitters, cables and accessories for predictive maintenance, continuous vibration monitoring, and machinery equipment protection. Products include rugged industrial ICP® accelerometers, 4-20 mA industrial vibration sensors and transmitters for 24/7 monitoring, electronic and mechanical vibration switches, the patented Bearing Fault Detector, high temperature accelerometers to +1300 °F (+704 °C), 2-wire Smart Vibration Switch, and the patented Reciprocating Machinery Protector. CE approved and intrinsically safe versions are available for most products.

Visit [www.imi-sensors.com](http://www.imi-sensors.com) to locate your nearest sales office.

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**Note:** The information provided is for reference purposes only and should not be used for direct application without verification. Always consult the manufacturer’s specifications for the most accurate and up-to-date information.