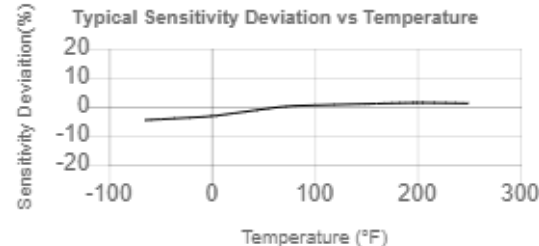


Model Number 639A91		INDUSTRIAL TRIAXIAL ICP® ACCELEROMETER		Revision: E ECN #: 56448	
Performance		ENGLISH		SI	
Sensitivity(± 10 %)		100 mV/g		10.2 mV/(m/s ²) [1]	
Measurement Range		± 50 g pk		± 491 m/s ² pk	
Frequency Range(± 5 %)		1.5 to 5,500 Hz		1.5 to 5,500 Hz	
Frequency Range(± 3 dB)		0.5 to 13 kHz		0.5 to 13 kHz	
Resonant Frequency		≥ 26 kHz		≥ 26 kHz	
Broadband Resolution(1 to 10,000 Hz)		.3 mg		3.0 mm/s ² rms [2]	
Non-Linearity		≤ 1 %		≤ 1 % [3]	
Transverse Sensitivity		≤ 5 %		≤ 5 %	
Environmental					
Overload Limit(Shock)		± 5,000 g pk		± 5,000 g pk	
Temperature Range(Operating)		-65 to 250 °F		-54 to 121 °C	
Temperature Response		See Graph		See Graph [2]	
Enclosure Rating		IP68, IP69K		IP68, IP69K	
Electrical					
Excitation Voltage		18 to 30 VDC		18 to 30 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	
Discharge Time Constant		≥ .32 sec		≥ .32 sec	
Settling Time(within 10% of bias)		< 2 sec		< 2 sec	
Spectral Noise(1 Hz)		90 µg/√Hz		883 (µm/sec ²)/√Hz [2][1]	
Spectral Noise(10 Hz)		20 µg/√Hz		196 (µm/sec ²)/√Hz [2][1]	
Spectral Noise(100 Hz)		10 µg/√Hz		98.1 (µm/sec ²)/√Hz [2][1]	
Spectral Noise(1 kHz)		3.0 µg/√Hz		29.4 (µm/sec ²)/√Hz [2][1]	
Electrical Isolation(Case)		≥ 10 ⁸ Ohm		≥ 10 ⁸ Ohm	
Physical					
Sensing Element		Ceramic		Ceramic	
Sensing Geometry		Shear		Shear	
Housing Material		Stainless Steel		Stainless Steel	
Sealing		Hermetic		Hermetic	
Size (Height x Length x Width)		.72 in x .95 in x .95 in		18.3 mm x 24.1 mm x 24.1 mm	
Weight(Maximum)		3.0 oz		85 gm	
Electrical Connector		4-Pin, M12		4-Pin, M12	
Electrical Connection Position		Side		Side	
Mounting		Through Hole		Through Hole	
Mounting Torque(Through Bolt)		2 to 5 ft-lb		2.7 to 6.8 n-M	
					
					
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 Piezotronics, 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. EX - Hazardous Area Approval- contact factory for specific approvals M - Metric Mount Supplied Accessory: Model M081A119 Supplied Accessories: M081A119 mounting bolt					
NOTES: [1]Conversion Factor 1g = 9.81 m/s ² . [2]Typical. [3]Zero-based, least-squares, straight line method. [4]See PCB Declaration of Conformance PS023 or PS140 for details. [5]See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.					
SUPPLIED ACCESSORIES: Model 081A119 Captive mounting bolt 1/4-28 x .625" (1) Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1) Model M081A119 Supplied Accessories: M081A119 mounting bolt					
Entered: ND		Engineer: gs		Sales: JL	
Date: 08/27/2026		Date: 08/27/2026		Date: 08/27/2026	
				Approved: BAM	
				Spec Number:	
				64198	
					
				IMI Sensors 3425 Walden Depew, NY 14043 UNITED STATES Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.com Web site: http://www.imi-sensors.com	