

Model Number EX603C10		LOW-COST INDUSTRIAL ICP® ACCELEROMETER		Revision: A ECN #: 56388	
Performance		ENGLISH		SI	
Sensitivity(± 20 %)		10 mV/g		1.02 mV/(m/s ²) [1]	
Measurement Range		± 500 g		± 4,905 m/s ²	
Frequency Range(± 3 dB)		30 to 600,000 cpm		0.5 to 10,000 Hz [2]	
Resonant Frequency		1,500 kcpm		25 kHz [3]	
Broadband Resolution(1 to 10,000 Hz)		2,000 µg		19,620 µm/sec ² [3]	
Non-Linearity		± 1 %		± 1 % [4]	
Transverse Sensitivity		≤ 7 %		≤ 7 %	
Environmental					
Overload Limit(Shock)		5,000 g pk		49,050 m/s ² pk	
Temperature Range		-65 to +250 °F		-54 to +121 °C	
Temperature Response		See Graph		See Graph [3]	
Enclosure Rating		IP68		IP68	
Electrical					
Settling Time(within 1% of bias)		≤ 3.0 sec		≤ 3.0 sec	
Discharge Time Constant		≥ 0.4 sec		≥ 0.4 sec	
Excitation Voltage		18 to 28 VDC		18 to 28 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	
Spectral Noise(10 Hz)		85 µg/√Hz		834 (µm/sec ²)/√Hz [3]	
Spectral Noise(100 Hz)		20 µg/√Hz		196 (µm/sec ²)/√Hz [3]	
Spectral Noise(1 kHz)		5 µg/√Hz		49.1 (µm/sec ²)/√Hz [3]	
Electrical Isolation(Case)		> 10 ⁸ Ohm		> 10 ⁸ Ohm	
Physical					
Size (Hex x Height)		11/16 in x 4.7 in		18 mm x 119 mm	
Weight(without cable)		1.8 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	
Mounting Torque(hex nut)		2 to 3 ft-lb		2.7 to 4.1 Nm	
Sensing Element		Ceramic		Ceramic	
Sensing Geometry		Shear		Shear	
Housing Material		Stainless Steel		Stainless Steel	
Sealing		Welded Hermetic		Welded Hermetic	
Electrical Connector		Molded Integral Cable		Molded Integral Cable	
Electrical Connection Position		Top		Top	
Cable Length		10 ft		3.0 m	
Cable Type		Polyurethane		Polyurethane [6]	
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