Model Number

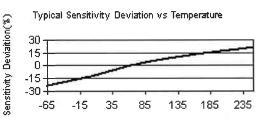
604B61

INDUSTRIAL ICP® ACCELEROMETER

Revision: A

ECN #: 29745

Performance		ENGLISH	SI	
Sensitivity(± 20 %)		100 mV/g	10.2 mV/(m/s²)	[2]
Measurement Range		± 50 g	± 490 m/s ²	
Frequency Range(± 3 dB)		30 to 300,000 cpm	0.5 to 5000 Hz	[3]
Resonant Frequency		600 kcpm	10 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)		350 µg	3434 µm/sec ²	[1]
Non-Linearity		± 1 %	± 1 %	[4]
Transverse Sensitivity		≤ 5 %	≤ 5 %	
Environmental				
Overload Limit(Shock)		5000 g pk	49,050 m/s ² pk	
Temperature Range		-65 to +250 °F	-54 to +121 °C	
Temperature Response		See Graph	See Graph	[1]
Enclosure Rating		IP68	IP68	
Electrical				
Settling Time(within 1%	of bias)	≤ 2.0 sec	≤ 2.0 sec	
Discharge Time Constar	nt	≥ 0.3 sec	≥ 0.3 sec	
Excitation Voltage		18 to 28 VDC	18 to 28 VDC	
Constant Current Excita	tion	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)		8 μg/√Hz	78.5 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)		5 μg/√Hz	49.1 (μm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)		4 μg/√Hz	39.2 (µm/sec ²)/√Hz	[1]
Electrical Isolation(Case	e)	>10 ⁸ ohm	>10 ⁸ ohm	
Physical				
Size (Diameter x Height)	1.38 in x 1.00 in	35.1 mm x 25.4 mm	
Weight(without cable)	•	4.4 oz	124 gm	
Mounting Thread		1/4-28 Male	Not Applicable	[5]
Mounting Torque		2 to 5 ft-lb	2.7 to 6.8 N-m	
Sensing Element		Ceramic	Ceramic	
Sensing Geometry		Shear	Shear	
Housing Material		Stainless Steel	Stainless Steel	
Sealing		Welded Hermetic	Welded Hermetic	
Electrical Connector		Integral Armored Cable	Integral Armored Cable	
Electrical Connection Po	osition	Side	Side	
Electrical Connections(F	Red)	X axis	X axis	
Electrical Connections(C		Y axis	Y axis	
Electrical Connections(White)		Z axis	Z axis	
Electrical Connections(E	Black)	Ground	Ground	
Cable Length		10 ft	3.0 m	***
Cable Type		Polyurethane	Polyurethane	[6]



Temperature (°F)

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.

CS - Canadian Standards Association Approved Intrinsically Safe

[8]

M - Metric Mount

Supplied Accessory: Model M081A68 Captive mounting bolt M6 x 1 (1)

NOTES:

- [1] Typical.
- [2] Conversion Factor 1g = 9.81 m/s².
- [3] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [4] Zero-based, least-squares, straight line method.
- [5] 1/4-28 has no equivalent in S.I. units.
- [6] Twisted shielded 4-conductor cable.
- [7] See PCB Declaration of Conformance PS023 for details.
- [8] Division 1; Class I; Group C & D; Temperature Code T4

SUPPLIED ACCESSORIES:

Model 081A68 Captive mounting bolt 1/4-28 x .90" (1)
Model ACS-2T NIST Traceable Single Point Calibration at 100 Hz for Each Axis (1)

Entered: St Engineer: AB Sales: Syx Approved: N Spec Number:

Date: 12-2 v8 Date: 12-1 v8 Date: 12-1



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