604B31

LOW-COST TRIAXIAL INDUSTRIAL ICP® ACCELEROMETER

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[1] [4]

[1]

[5]

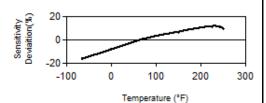
Revision: B

ECN #: 49214

004631						
Performance		ENGLISH	<u>SI</u>			
Sensitivity(± 20 %)		100 mV/g	10.2 mV/(m/s²)			
Measurement Range		± 50 g	± 490 m/s ²			
Frequency Range(± 3 dB)		30 to 300,000 cpm	0.5 to 5000 Hz			
Resonant Frequency		600 kcpm	10 kHz			
Broadband Resolution(1 to 10,000 Hz)		350 µg	3434 μm/sec ²			
Non-Linearity		± 1 %	± 1 %			
Transverse Sensitivity		≤ 5 %	≤ 5 %			
Environmental						
Overload Limit(Shock)		5000 g pk	49,050 m/s² pk			
Temperature Range		-65 to +250 °F	-54 to +121 °C			
Temperature Response		See Graph	See Graph			
Enclosure Rating		IP68	IP68			
Electrical						
Settling Time(within 1%		≤ 2.0 sec	≤ 2.0 sec			
Discharge Time Constant		≥ 0.3 sec	≥ 0.3 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)		8 μg/√Hz 5 μg/√Hz	78.5 (µm/sec ²)/√Hz			
Spectral Noise(100 Hz)	ctral Noise(100 Hz)		49.1 (µm/sec ²)/√Hz			
Spectral Noise(1 kHz)		4 μg/√Hz	39.2 (µm/sec ²)/√Hz			
Electrical Isolation(Case)		>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		4.4 oz	124 gm			
Mounting		Through Hole	Through Hole			
Mounting Thread		1/4-28 Male	Not Applicable			
Mounting Torque		2 to 5 ft-lb	2.7 to 6.8 Nm			
Sensing Element		Ceramic	Ceramic			
Sensing Geometry		Shear	Shear			
Housing Material		Stainless Steel	Stainless Steel			
Sealing		Welded Hermetic	Welded Hermetic			
Electrical Connector		4-Pin MIL-C-26482	4-Pin MIL-C-26482			
Electrical Connection Position		Side	Side			
Electrical Connections(Pin A)		X axis	X axis			
Electrical Connections(Pin B)		Y axis	Y axis			
Electrical Connections(Pin C)		Z axis	Z axis			
Electrical Connections(Pin D)		Ground	Ground			

Typical Sensitivity Deviation vs Temperature







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.

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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 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] See PCB Declaration of Conformance PS023 or PS098 for details.
- [7] See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements

SUPPLIED ACCESSORIES:

Model 081A68 Captive mounting bolt 1/4-28 x .90" (1)

Entered: LK	Engineer: gs	Sales: MC	Approved: BAM	Spec Number:
Date: 3/13/2019	Date: 3/13/2019	Date: 3/13/2019	Date: 3/13/2019	21814



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