

Model Number
605B11

LOW-COST BIAXIAL INDUSTRIAL ICP® ACCELEROMETER

Revision A
ECN #: 22961

	ENGLISH	SI	
Performance			
Sensitivity (±20 %)	100 mV/g	10.2 mV/(m/s ²)	[2]
Measurement Range	±50 g	±490 m/s ²	
Frequency Range (±3 dB)	30 to 300000 cpm	0.5 to 5000 Hz	
Resonant Frequency	600 kcpm	10 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	350 µg	3434 µm/sec ²	[1]
Non-Linearity	±1 %	±1 %	[3]
Transverse Sensitivity	≤5 %	≤5 %	
Environmental			
Overload Limit (Shock)	5000 g pk	49050 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 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	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)	>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)	4.0 oz	113.3 gm	
Mounting Thread	1/4-28 UNF	Not Applicable	[4]
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	Molded Integral Cable	Molded Integral Cable	
Electrical Connection Position	Side	Side	
Electrical Connections (Red)	X axis	X axis	
Electrical Connections (White)	Z axis	Z axis	
Electrical Connections (Black)	Ground	Ground	
Electrical Connections (Green)	Not Used	Not Used	
Cable Length	10 ft	3.0 m	
Cable Type	Polyurethane	Polyurethane	[5]

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

M - Metric Mount

Supplied Accessory: Model M081A68 Captive mounting bolt, 1/4-28 x 0.875" long (for Series 604, 605, and 606 accelerometers)

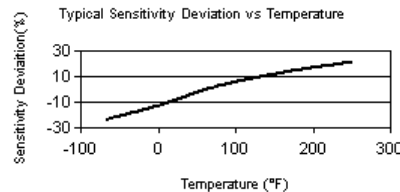
Notes

- [1] Typical.
- [2] Conversion Factor 1g = 9.81 m/s².
- [3] Zero-based, least-squares, straight line method.
- [4] 1/4-28 has no equivalent in S.I. units.
- [5] Twisted shielded 4-conductor cable.
- [6] See PCB Declaration of Conformance PS023 for details.

Supplied Accessories

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

Entered: LLH	Engineer: JEC	Sales: DPC	Approved: NJF	Spec Number:
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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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