Model Number 605B11

INDUSTRIAL ICP® ACCELEROMETER

Revision: A

ECN #: 22961

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Performance	ENGLISH	SI	
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 300,000 cpm	0.5 to 5000 Hz	i i
Resonant Frequency	600 kcpm	10 kHz	[1]
Broadband Resolution (1 to 10,000 Hz)	350 µg	3434 μm/s ²	[1] [1]
Non-Linearity	± 1 %	± 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	15.
Environmental			- 1
Overload Limit (Shock)	5000 g pk	49,050 m/s ² pk	1.0
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	
Enclosure Rating	IP68	IP68	100
Electrical			1
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/s²)/√Hz	[1]
Spectral Noise (100 Hz)	5 μg/√Hz	49.1 (μm/s ²)/√Hz	[1]
Spectral Noise (1 kHz)	4 μg/√Hz	39.2 (µm/s²)/√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]
	Typical Sensitivity Deviation vs Temperature		
	30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 -		<u> </u>
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Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

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] 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.

100 200 -100 0 300 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.

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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)

Approved: Spec Number: 22686



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