

Model Number 624B01	INDUSTRIAL ICP [®] ACCELEROMETER	Revision: NR ECN #:
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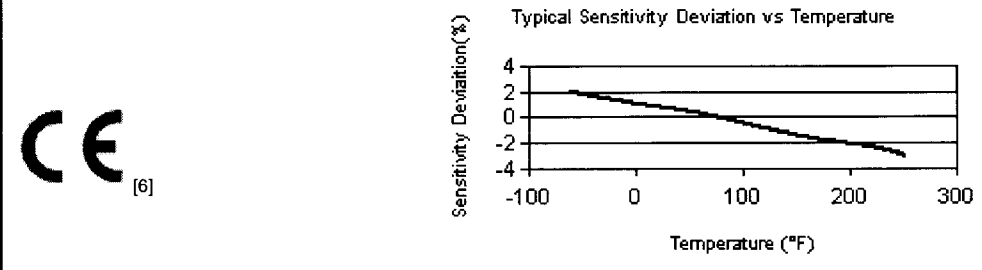
	ENGLISH	SI	
Performance			
Sensitivity (±5 %)	100 mV/g	10.2 mV/(m/s ²)	[2]
Measurement Range	±50 g	± 490 m/s ²	
Frequency Range (±5 %)	144 to 300000 cpm	2.4 to 5000 Hz	[3]
Frequency Range (±10 %)	102 to 420000 cpm	1.7 to 7000 Hz	
Frequency Range (±3 dB)	48 to 600000 cpm	0.8 to 10000 Hz	
Resonant Frequency	1080 kcpm	18 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	1000 µg	9810 µm/s ²	[1]
Non-Linearity	±1 %	±1 %	[4]
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	
Enclosure Rating	IP68	IP68	
Electrical			
Settling Time (within 1% of bias)	≤10 sec	≤10 sec	
Discharge Time Constant	≥0.2 sec	≥0.2 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<100 ohms	<100 ohms	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (10 Hz)	50 µg/√Hz	491 (µm/s ²)/√Hz	[1]
Spectral Noise (100 Hz)	20 µg/√Hz	196 (µm/s ²)/√Hz	[1]
Spectral Noise (1 kHz)	6 µg/√Hz	59 (µm/s ²)/√Hz	[1]
Electrical Isolation (Case)	>10 ⁸ ohms	>10 ⁸ ohms	
Electrical Protection	RFI/ESD	RFI/ESD	
Physical			
Size (Diameter x Height)	1.37 in x .955 in	34.8 mm x 24.3 mm	
Weight	4.2 oz	120 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	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Side	Side	

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.		
LB - Low Bias Voltage		
Output Bias Voltage	6 to 8 VDC	6 to 8 VDC
Excitation Voltage	12 to 28 VDC	12 to 28 VDC
Measurement Range	±35 g	± 343 m/s ²
M - Metric Mount		
Supplied Accessory : Model M081A67 Captive mounting bolt M6 x 1 (1) replaces Model 081A67		
TO - Temperature Output		
Temperature Output Range	+36 to +250 °F	+2 to +121 °C
Temperature Scale Factor	5.56 mV/°F + 32	+10 mV/°C
Electrical Connector	3-Pin MIL-C-5015	3-Pin MIL-C-5015
Electrical Connections (Pin A)	Acceleration Output	Acceleration Output
Electrical Connections (Pin B)	Ground	Ground
Electrical Connections (Pin C)	Temperature Output	Temperature Output

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 for details.

SUPPLIED ACCESSORIES:
 Model 081A67 Captive mounting bolt 1/4-28 x 1.12" (1)
 Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency

Entered: <i>me</i>	Engineer: <i>me</i>	Sales: <i>BB7</i>	Approved: <i>N.F</i>	Spec Number:
Date: <i>9/17/02</i>	Date: <i>9/17/02</i>	Date: <i>10/7/02</i>	Date: <i>10/7/02</i>	20639



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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