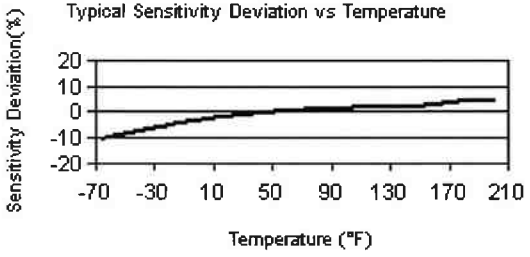
Model Number	ICP® ACCELEROMETER	Revision: F
355B04		ECN #: 29040

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	1000 mV/g	101.9 mV/(m/s²)	
Measurement Range	± 5 g pk	± 49 m/s² pk	
Frequency Range(± 5 %)	1 to 8000 Hz	1 to 8000 Hz	
Frequency Range(± 10 %)	0.6 to 12,000 Hz	0.6 to 12,000 Hz	
Frequency Range(± 3 dB)	0.3 to 17,000 Hz	0.3 to 17,000 Hz	
Resonant Frequency	≥ 30 kHz	≥ 30 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0001 g rms	0.001 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
Environmental			
Overload Limit	± 5000 g pk	± 49,000 m/s² pk	
Temperature Range	-65 to +200 °F	-54 to +93 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.05 g/με	0.49 (m/s²)/με	[1]
Electrical			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 4 mA	2 to 4 mA	
Output Impedance	≤ 1000 ohm	≤ 1000 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	
Spectral Noise(10 Hz)	4 μg/√Hz	39 (μm/s²)/√Hz	[1]
Spectral Noise(100 Hz)	2 μg/√Hz	20 (μm/s²)/√Hz	[1]
Spectral Noise(1 kHz)	0.5 μg/√Hz	4.9 (μm/s²)/√Hz	[1]
Electrical Isolation(Base)	>10^8 ohm	>10^8 ohm	
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Length x Width)	0.95 in x 0.63 in	24.1 mm x 16.0 mm	
Weight	0.4 oz	11.2 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting	Through Hole	Through Hole	

CE [4]

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.

M - Metric Mount
Supplied Accessory : Model M039A22 Allen wrench for use with M3 thread (1) replaces Model 039A22
Supplied Accessory : Model M081B45 off ground screw assembly (1) replaces Model 081B45

W - Water Resistant Cable

Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Side	Side

NOTES:

[1] Typical.
[2] Zero-based, least-squares, straight line method.
[3] Transverse sensitivity is typically ≤ 3%.
[4] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 039A22 Allen wrench, 7/64" hex (1)
Model 080A109 Petro Wax (1)
Model 081B45 off ground screw assembly (1)
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

Entered: BLS	Engineer: JF	Sales: WDC	Approved: BH	Spec Number:
Date: 7/8/08	Date: 7/7/08	Date: 7/1/08	Date: 7/2/08	12658

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