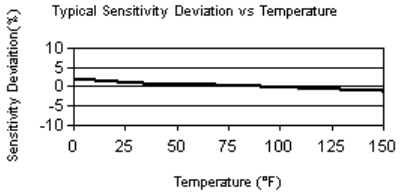
Model Number **350B03**	**SHEAR ICP® SHOCK SENSOR**	Revision E ECN #: 28655

Performance	**ENGLISH**	**SI**	
Sensitivity (±30 %)	0.5 mV/g	0.05 mV/(m/s²)	
Measurement Range	±10000 g pk	±98000 m/s² pk	
Frequency Range (±1 dB)	0.4 to 10000 Hz	0.4 to 10000 Hz	
Frequency Range (-3 dB)	0.2 to 25000 Hz	0.2 to 25000 Hz	[2]
Electrical Filter Corner Frequency (-3 dB)	13 kHz	13 kHz	[1][3]
Mechanical Filter Resonant Frequency	23 kHz	23 kHz	[1][4]
Resonant Frequency	≥100 kHz	≥100 kHz	
Broadband Resolution (1 to 10000 Hz)	0.04 g rms	0.39 m/s² rms	[1]
Non-Linearity	≤2.0 %	≤2.0 %	
Transverse Sensitivity	≤7 %	≤7 %	
Environmental			
Overload Limit (Shock)	±50000 g pk	±490000 m/s² pk	
Temperature Range (Operating)	0 to +150 °F	-18 to +66 °C	
Temperature Range (Storage)	-40 to +200 °F	-40 to +93 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.002 g/με	0.02 (m/s²)/με	[1]
Electrical			
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤200 ohm	≤200 ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Discharge Time Constant	1.0 to 2.0 sec	1.0 to 2.0 sec	
Settling Time (within 10% of bias)	<10 sec	<10 sec	
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	0.375 in x 1.02 in	9.5 mm x 25.9 mm	
Weight	0.16 oz	4.5 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	1/4-28 Male	1/4-28 Male	



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 standard model except where noted below. More than one option maybe used.)

M - Metric Mount		
Mounting Thread	M6 x 0.75 Male	(M6 x 0.75 Male)
W - Water Resistant Cable		
Electrical Connector	Sealed Attached Cable	Sealed Attached Cable

Notes

[1] Typical.
[2] Typical corner frequency for coupled electrical and mechanical filters.
[3] Electrical filter is a second order filter.
[4] Amplitude at resonance is +9 dB.
[5] See PCB Declaration of Conformance PS023 for details.

Supplied Accessories

ACS-22 NIST Traceable frequency response (100Hz to ±1 dB point) (1)

Entered: BLS	Engineer: BAM	Sales: WDC	Approved: JJB	Spec Number:
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