



Model Number <b>3713E1125G</b>		<b>TRIAxIAL DC RESPONSE ACCELEROMETER</b>		Revision: A ECN #: 43135
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b>
Sensitivity(± 3 %)	80 mV/g	8.15 mV/(m/s <sup>2</sup> )	[5]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range	± 25 g pk	± 245.2 m/s <sup>2</sup> pk		
Frequency Range(± 3 dB)	0 to 1500 Hz	0 to 1500 Hz	[2]	
Frequency Range(± 3 dB)	0 to 750 Hz	0 to 750 Hz	[6]	
Phase Response(100 Hz)	<10 °	<10 °		
Broadband Resolution(0.5 to 100 Hz)	.3 mg rms	.003 m/s <sup>2</sup> rms	[2]	
Non-Linearity	≤ 1 %	≤ 1 %	[7][4]	
Transverse Sensitivity	≤ 5 %	≤ 5 %		
<b>Environmental</b>				
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s <sup>2</sup> pk		
Temperature Range(Operating)	-65 to +250 °F	-54.0 to +121 °C		
Temperature Range(Storage)	-65 to +250 °F	-54.0 to +121 °C		
Temperature Coefficient of Sensitivity	± 3 %	± 3 %	[3]	
Zero g Offset Temperature Coefficient	± 2 % FSO	± 2 % FSO	[3][4]	
Base Strain Sensitivity	.001 g/με	.01 (m/s <sup>2</sup> )/με	[2]	
Magnetic Sensitivity	100 μg/gauss	9.8 (m/s <sup>2</sup> )/Tesla	[2]	
<b>Electrical</b>				
Excitation Voltage	6 to 30 VDC	6 to 30 VDC		
Current Consumption	≤ 30 mA	≤ 30 mA		
Output Impedance	≤ 120 Ohm	≤ 120 Ohm		
Offset Voltage(0 g)	± 80 mVDC	± 80 mVDC	[1]	
Spectral Noise(1 to 100 Hz)	100 μg/√Hz	981 (μm/sec <sup>2</sup> )/√Hz	[2]	
Electrical Isolation(Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm		
<b>Physical</b>				
Housing Material	Titanium	Titanium		
Sealing	Hermetic	Hermetic		
Size (Length x Width x Height)	0.85 in x 0.85 in x 0.85 in	21.6 mm x 21.6 mm x 21.6 mm		
Weight	0.8 oz	22.7 gm		
Electrical Connector	9-Pin	9-Pin		
Electrical Connection Position	Side	Side		
Mounting Thread	10-32 Female	10-32 Female		
 [8]				<b>NOTES:</b>
				[1]Offset tolerance is based on 10 ft of 037 test cable. [2]Typical. [3]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C) [4]FSO = Full Scale Output over the Measurement Range (4VDC). [5]Measured at 100 Hz. [6]Minimum, verified with Calibration data. [7]Least-squares, straight line method, % FSO. [8]See PCB Declaration of Conformance PS027 for details.
<b>SUPPLIED ACCESSORIES:</b> Model 080A12 Adhesive Mounting Base (1) Model 081B05 Mounting Stud (10-32 to 10-32) (1) Model ACS-145T Triaxial Calibration Phase and Magnitude from 2 Hz to ±3dB using Linear scale (1) Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)				Entered: AP
				Engineer: JJD
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				Approved: NJF
3425 Walden Avenue, Depew, NY 14043				Spec Number:
				Date: 8/20/2014
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				Date: 8/20/2014
<b>58433</b>				Date: 8/20/2014

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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