

Model Number 3713E112G	TRIAXIAL DC RESPONSE ACCELEROMETER	Revision: C ECN #: 46196
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Performance	<u>ENGLISH</u>	<u>SI</u>	
Sensitivity(± 3 %)	1000 mV/g	101.9 mV/(m/s ²)	[5]
Measurement Range	± 2 g pk	± 19.6 m/s ² pk	
Frequency Range(± 3 dB)	0 to 400 Hz	0 to 400 Hz	[2]
Frequency Range(± 3 dB)	0 to 200 Hz	0 to 200 Hz	[6]
Phase Response(10 Hz)	<3.0 °	<3.0 °	
Broadband Resolution(0.5 to 100 Hz)	.1 mg rms	.001 m/s ² rms	[2]
Non-Linearity	≤ 1 %	≤ 1 %	[7][4]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 2000 g pk	± 19,620 m/s ² 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	± 5 %	± 5 %	[3]
Zero g Offset Temperature Coefficient	± 4 % FSO	± 4 % FSO	[3][4]
Base Strain Sensitivity(Measured at 250 µε)	.001 g/µε	.01 (m/s ²)/µε	[2]
Magnetic Sensitivity	100 µg/gauss	9.8 (m/s ²)/Tesla	[2]
Electrical			
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)	± 160 mVDC	± 160 mVDC	[1]
Spectral Noise(1 to 100 Hz)	10 µg/√Hz	98.1 (µm/sec ²)/√Hz	[2]
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	
Physical			
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	

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.

NOTES:

[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 10 Hz, 1.0 pk
 [6] Minimum, verified with Calibration data.
 [7] Least-squares, straight line method, % FSO.
 [8] See PCB Declaration of Conformance PS027 for details.

SUPPLIED ACCESSORIES:

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: LK	Engineer: JJD	Sales: WDC	Approved: NJF	Spec Number:
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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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