

A/31 Piezoelectric Triaxial Accelerometer

7pC/g nom. 18gm 220°C Max



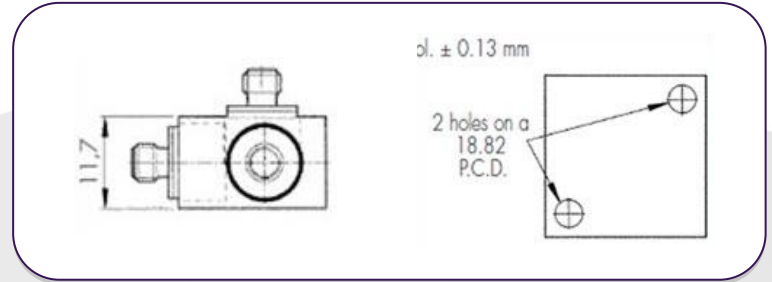
A/31 Fixing Centers

Lightweight triaxial vibration transducer comprising three Konic shear sensing elements all welded inserts bonded orthogonally into hard anodized aluminum housing.

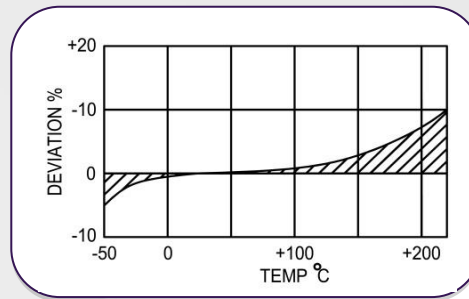
The inserts are electrically insulated, individually and from the housing, thus eliminating ground loop interference. The additional mechanical isolation implicit in the construction provides near elimination of strain induced error.

The spatial response of a structure to dynamic forcing may lead to erroneous single axis vibration or shock measurement due to the inherent directional property of the transducer. In cases where this is deemed to be a problem, an orthogonal three axis measurement, allowing computation of absolute value and direction offers a solution.

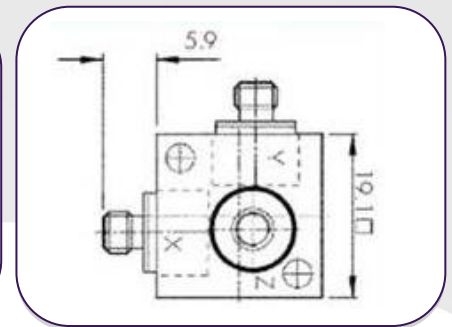
The d33 component suppression property of the Konic shear design, resulting in minimization of cross axis error, is particularly advantageous for three axis measurement integrity.



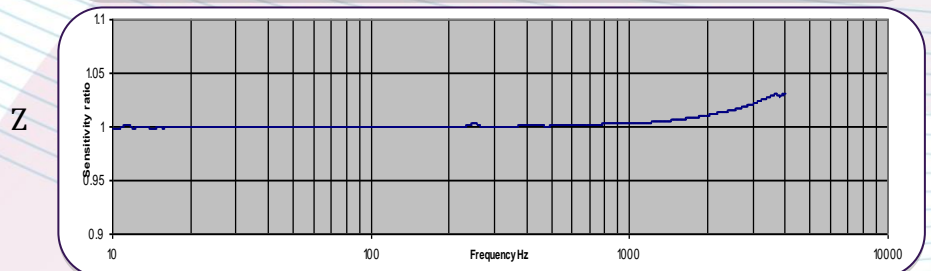
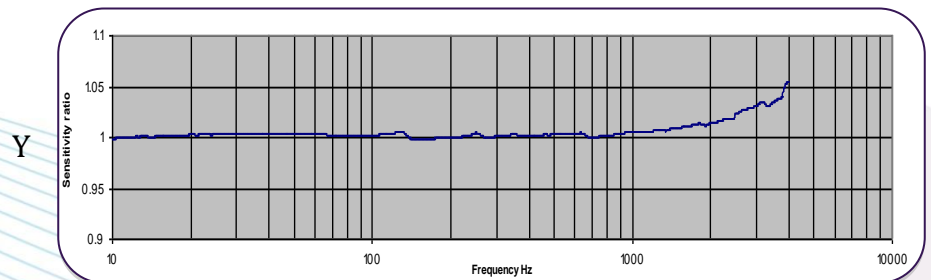
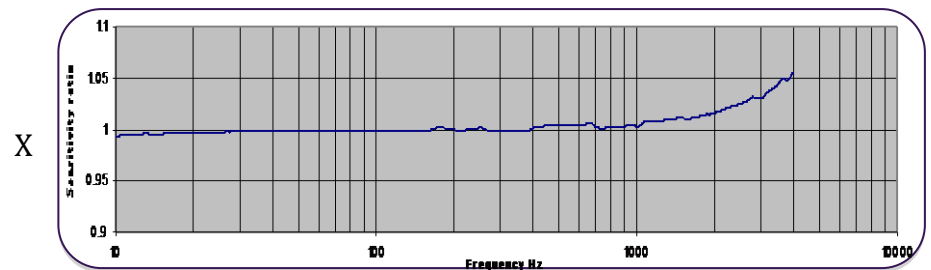
Temperature Response



A/31



Typical Frequency Response



Options

- Wideband temperature calibration

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A UK company with UK-based manufacturing, assembly and calibration in-house.

DJB Iss.1





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	Metric			Imperial		
Charge sensitivity nom.	0.71pC/(m/s ²)			7pC/g		
Capacitance pF	1150			1150		
Resonant Frequency KHz	X (25)	Y (25)	Z (28)	X (25)	Y (25)	Z (28)
Cross Axis error % max	5			5		
Temperature Range	-50/ +220°C			-58/ + 428°F		
Charge sensitivity deviation re 20°C/68°F	-5% @ -50°C (-58 °F) +10% @ +220°C (+428 °F)			-5% @ -50°C (-58 °F) +10% @ +220°C (+428 °F)		
Frequency Response	1Hz – 4kHz @ ±5% 1Hz – 6kHz @ ±10%			1Hz – 4kHz @ ±5% 1Hz – 6kHz @ ±10%		
Maximum Continuous g/oz level	9,807m/s ²			1000g		
Mounting	3 x 2.5mm Ø through holes			3 x 0.098in Ø through holes		
Case Material	s/steel 303 S31 inserts Hard anodized al. alloy mounting block			s/steel 303 S31 inserts Hard anodized al. alloy mounting block		
Connector	10-32UNF Microdot			10-32UNF Microdot		
Weight	18g			0.63oz		
Size	19.1 x 19.1 x 11.7mm			0.75 x 0.75 x 0.46in		

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