

A/130/V Triaxial Piezo-Tronic IEPE Accelerometer

10mV/g up to 500mV/g $\pm 10\%$

40.9gm

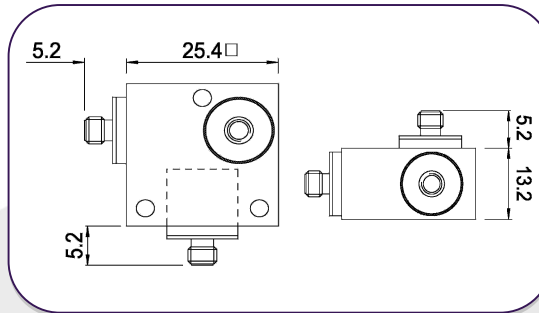
Std Temp 125°C



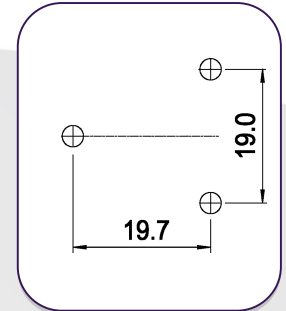
General purpose triaxial vibration transducer comprising three, Konic shear IEPE welded inserts, bonded orthogonally into hard anodized aluminum housing. The inserts are electrically insulated, individually and from the housing, thus eliminating ground loop interference. Low impedance O/P provides a high degree of noise immunity (80 db improvement vs. equiv, charge source device@ 50Hz) and allows use with low cost coaxial cable. The additional mechanical isolation implicit in the construction provides also near elimination of strain induced error.

The multi sensor solution also offers the benefit of being repairable. If an insert is damaged it can usually be removed and replaced saving the cost of a new accelerometer.

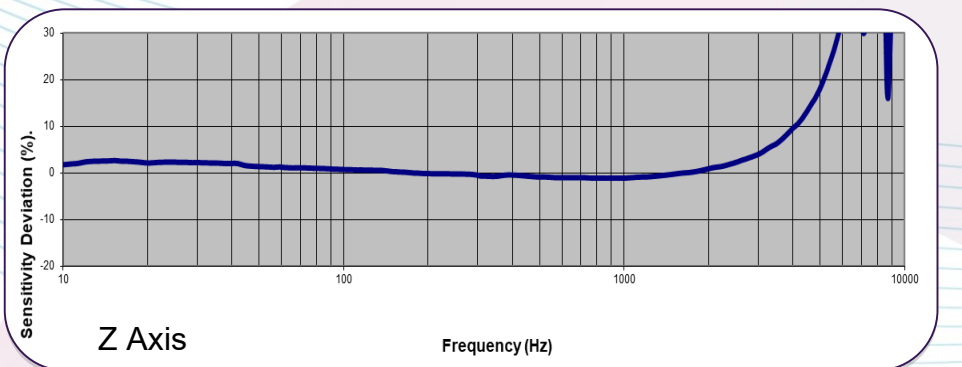
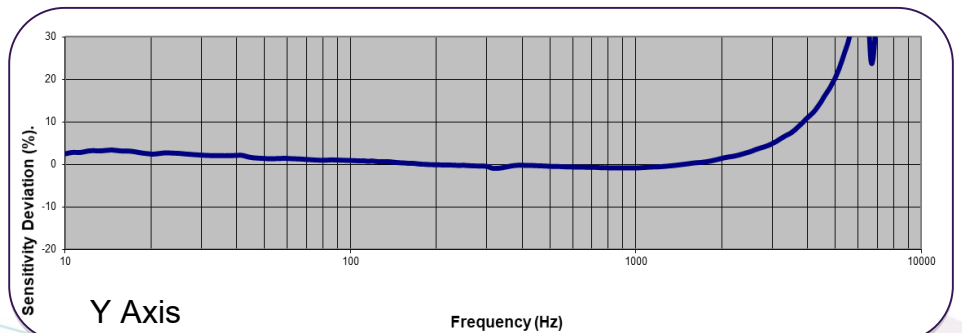
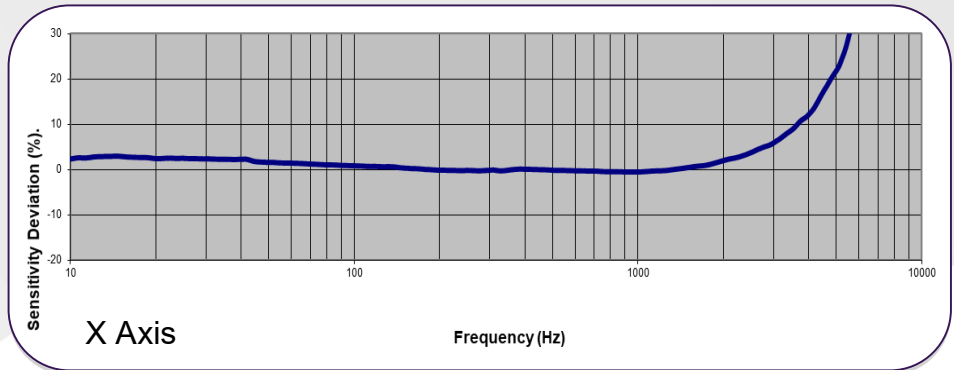
A/130/V



Fixing



Typical Frequency Response



Typical Spectral Noise 100mV/g

1Hz	761 μ g/ $\sqrt{\text{Hz}}$
10Hz	193 μ g/ $\sqrt{\text{Hz}}$
100Hz	37.8 μ g/ $\sqrt{\text{Hz}}$
1kHz	11.2 μ g/ $\sqrt{\text{Hz}}$
10kHz	4.2 μ g/ $\sqrt{\text{Hz}}$

Options:

A/130V
A/130V-1

Please note: For information and reference only. Data should not be used as pass / fail criteria for calibration purposes

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DJB Iss.4 2020



ISO 9001 – 00025363

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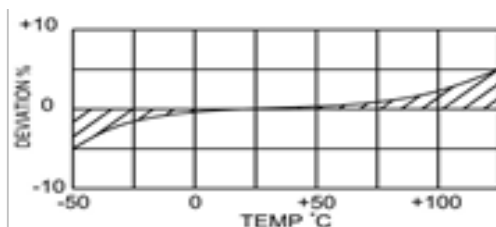
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Temperature Response



	Metric		Imperial	
Voltage Sensitivity ±10%	1.02 mV/(m/s²)	10.2 mV/(m/s²)	10 mV/g	100 mV/g
Resonant frequency	X/Y Axis 13kHz Z Axis 15 kHz			
Typical Frequency Response ±5% ±10%	1Hz - 3kHz 0.7Hz – 4kHz			
Cross axis error	≤5% max			
Temperature range	-50/ +125°C		-58/+257°F	
Voltage sensitivity deviation re (20°C/68°F)	-5% @-50°C +5% @+125°C		-5% @-58°F +5% @+257°F	
Supply voltage	15/35 V DC			
Supply current	2/20 mA			
Bias voltage (20°C/68°F)	10/14 V DC			
Settling time within 10% bias	<5 Sec			
Shock level	9806m/s²		1000g	
Saturation limit	4903m/s²	490.3m/s²	500g	50g
Base Strain Sensitivity	0.001g/μ strain			
Case/ Block Material	303 S31/ Aluminum			
Mounting	Through hole			
Weight	40.9g		1.44oz	
Case seal	Welded transducer inserts, bonded into hard anodized aluminum block			
Size	25.4 x 25.4 x 13.2mm		1 x 1 x 0.52in	
Connector	3 x 10-32 UNF Microdot			

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