DJB Instruments
SENSING ENGINEERING INNOVATION

A/134/V, A/134/V-3 Triaxial Piezo-Tronic IEPE Accelerometer

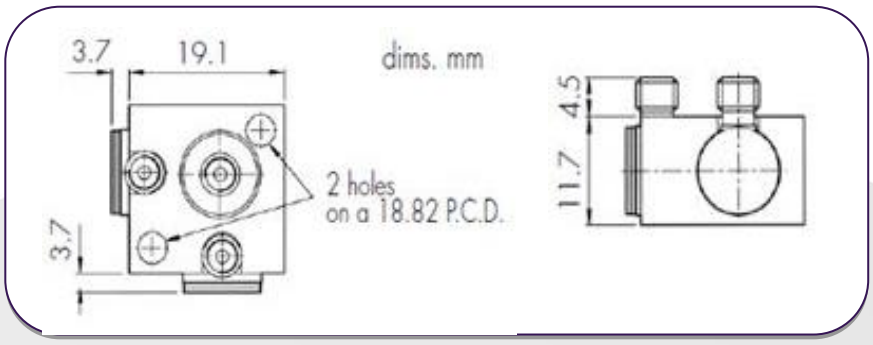
1mV/g up to 200mV/g ±10% 19/22gm Std Temp 125°C (185°C HT)

Lightweight triaxial vibration transducer compromising three, Konic shear IEPE, 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. Low impedance O/P provides a high degree of noise immunity (80dB 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. All the 3x10-32 UNF Microdot connectors are exiting in the same direction.

The d33 component suppression property of the Konic design, provides a minimization of cross axis error, and is particularly advantageous for three axis measurement integrity.

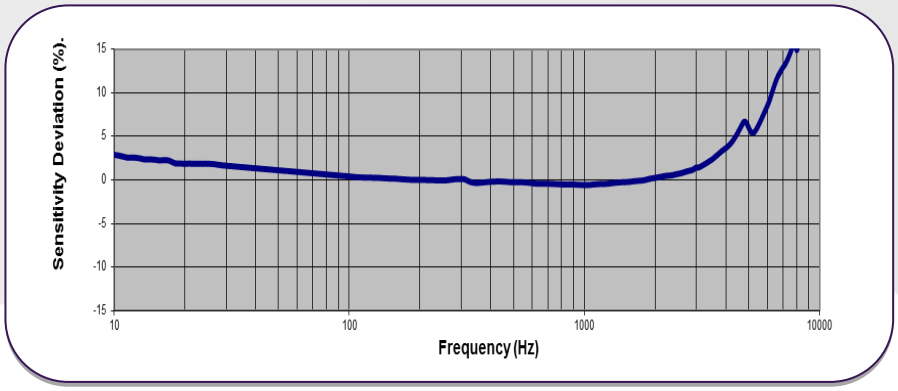
The multi sensor solution also offers the benefit of being repairable. If an insert is damaged it can usually be removed and replaced saving the cost of a new accelerometer.

A/134

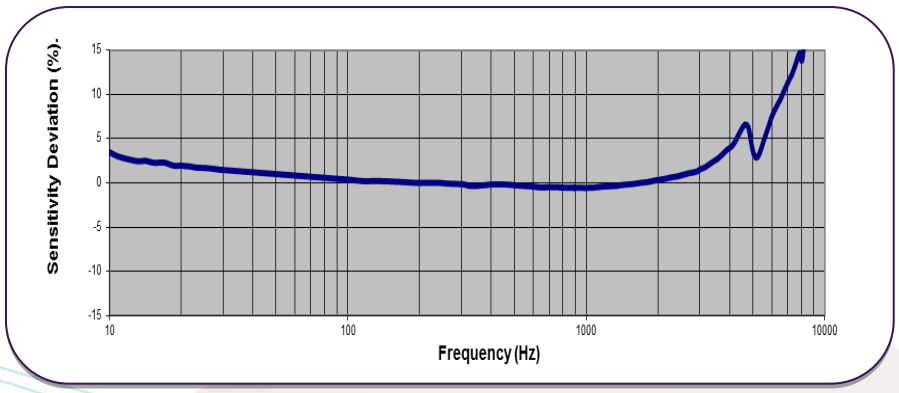


Typical Frequency Response

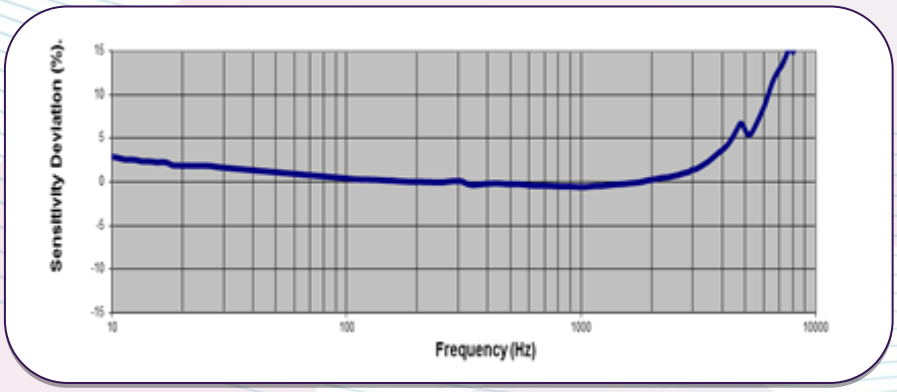
X



Y



Z



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

bsi. ISO 9001 Quality Management

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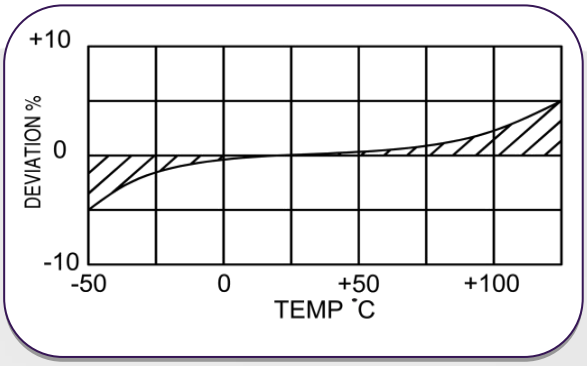
Options

- Wideband temperature calibration

Temperature Response



	Metric	Imperial
Sensitivity mV/g ±10%	1.02mV/(m/s^2) 10.2mV/(m/s^2)	10mV/g 100mV/g
Resonant Frequency (X, Y, Z)	25,25,28	25, 25, 28
Frequency Response	1Hz – 4kHz +/- 5% 1Hz – 6 kHz +/- 10%	1Hz – 4kHz +/- 5% 1Hz – 6 kHz +/- 10%
Cross Axis Error % max	5	5
Temperature Range	-50/ +185ºC	-58/ +365ºF
Charge Sensitivity Deviation re 20ºC	-5% @ -50ºC +5% @ +185ºC	-5% @ -58ºF +5% @ +365ºF
Bias voltage V DC	9/10	9/10
Base Strain Sensitivity/Strain	<0.001	<0.001
Max Continuous accn. g sine	9,806m/s^2	1000g
Bias Voltage V (20ºC)	9/10	9/10
Supply Voltage V DC	15/35	15/35
Supply Current	2/20	2/20
Case Seal	Welded transducer inserts, bonded into hard anodised aluminium, block	Welded transducer inserts, bonded into hard anodised aluminium, block
Mounting	2 x 3.57 mm through holes (A/134/V) 1 x M4 Ø through hole + 3 x tapped UNF x 4mm deep (A/134/V-3)	2 x 3.57 mm through holes (A/134/V) 1 x M4 Ø through hole + 3 x tapped UNF x 4mm deep (A/134/V-3)
Weight	19g A/134V, 22g A/134/V-3	0.67oz A/134/V, 0.78oz A/134/V-3
Connector	10-32 UNF Microdot	10-32 UNF Microdot .
Size	19.1 x 19.1 x 11.7mm	0.75 x 0.75 x 0.46in

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