DJB Instruments
SENSING ENGINEERING INNOVATION

A/136 Tri-axial Piezo-Tronic IEPE Accelerometer

1mV/g up to 200mV/g ±10% 18gm Std 125˚C (HT 185˚C)

Triaxial vibration transducer comprising of three independent Konic Shear IEPE voltage output piezo-tronic accelerometers mounted orthogonally within a titanium block. Each sensor has a fully welded construction and each axis is calibrated individually in addition to the block calibration.

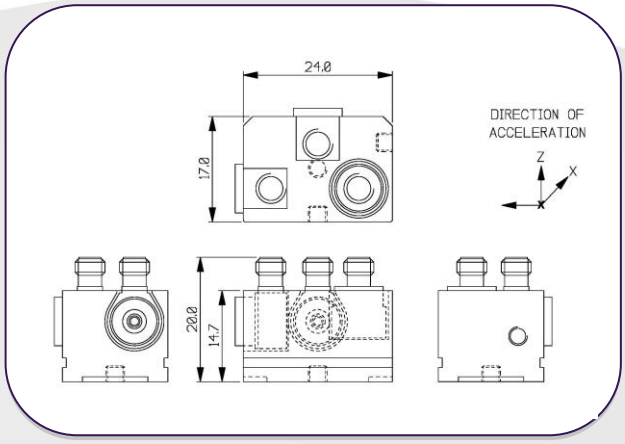
All the Microdot connectors are exiting in the same direction. Each insert is electrically insulated, individually from the housing, thus eliminating ground loop interference.

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.

The A/136 can be adhesive mounted or clip mounted.

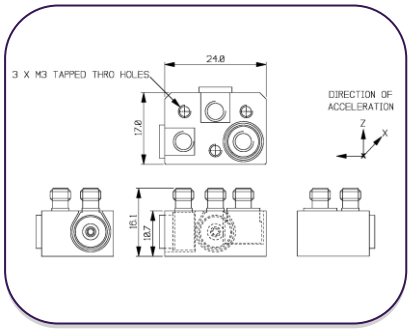
A/36-1 Features M3 cut through holes for mounting.

A/136 Drawing

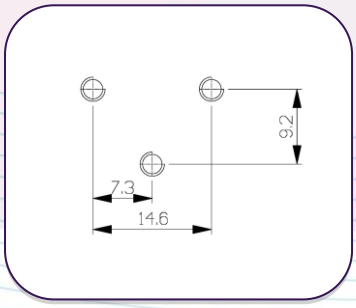


	Metric			Imperial		
Voltage Sensitivity ±10%	1.02 mV/(m/s²)	10.2 mV/(m/s²)	20.4 mV/(m/s²)	10mV/g	100mV/g	200mV/g
Supply Voltage VDC	15/35			15/35		
Supply Current mA	2/20			2/20		
Temperature Range	-50/ +125ºC (+185ºC HT)			-58/+257ºF (+365ºF HT)		
Voltage Sensitivity Deviation	-5% @ -50ºC +5% @ +125ºC ±10% @ +185ºC			-5% @-58 ºF +5% @+257ºF ±10% @+365 ºF		
Max Continuous accn.g sine	9,806m/s²			1000g		
Bias Voltage V DC	8/10			8/10		
Case Material	Titanium Grade 2			Titanium Grade 2		
Mounting	Adhesive/ 3x M3 Tapped Holes/Clip			Adhesive/ 3x M3 Tapped Holes/Clip		
Weight	18g			0.64oz		
Case Seal	Welded			Welded		
Connector	3 x 10-32 UNF Microdot			3 x 10-32 UNF Microdot		
Resonant Frequency kHz	Z Axis - ≈ 21	X/Y Axis- ≈15		Z Axis - ≈ 21	X/Y Axis- ≈15	
Frequency Response	X/Y Axis 1Hz – 4kHz ±5% Z Axis 1Hz – 7kHz ±5%			X/Y Axis 1Hz – 4kHz ±5% Z Axis 1Hz – 7kHz ±5%		
Saturation Limit	4,903m/s²	490.3m/s²	245.2m/s²	500g	50g	25g
Cross Axis Error % max	5			5		
Setting time to 90% final val. secs	<1 sec			<1 sec		
Size	24 x 17 x 14.7mm			0.95 x 0.66 x 0.58in		

A/136-1 Drawing



A/136-1 Cut through holes



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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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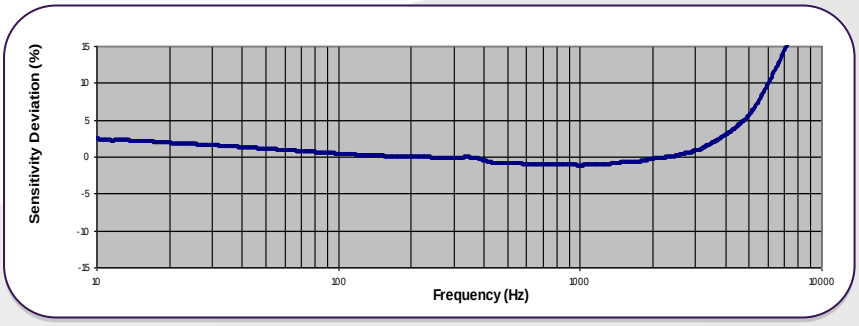
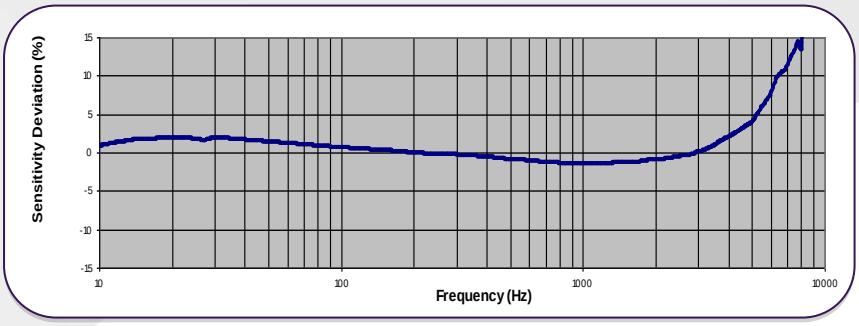
Typical Frequency Response

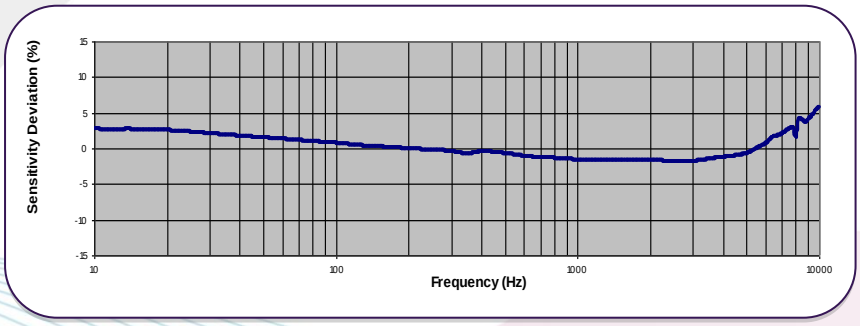
X Axis



Y Axis



Z Axis



Spectral Noise

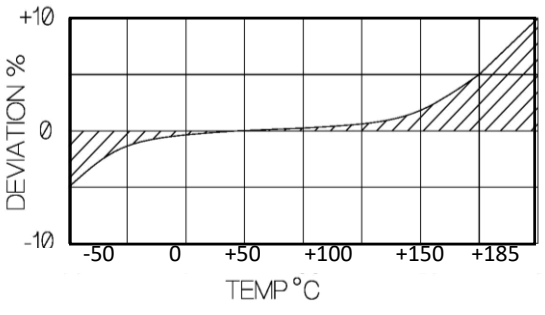
1Hz – 113µg/√Hz

10Hz – 29µg/√Hz

100Hz – 16µg/√Hz

1kHz – 6µg/√Hz

Temperature Response



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