

TREA331 Series

Low Cost, Compact Triaxial Accelerometer, 100 mV/g



VIBRATION ANALYSIS HARDWARE



Product Features

Uses J4A, J4C, or J4N Connectors and CB105, CB117, CB119, or CB218 Cables

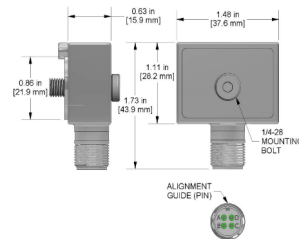
Cartesian Coordinate Phase Configuration

- ▶ Low Cost
- ▶ Low Profile Side Exit Case
- ▶ 100 mV/g, $\pm 15\%$ Sensitivity Tolerance

TREA331

4 Pin Connector

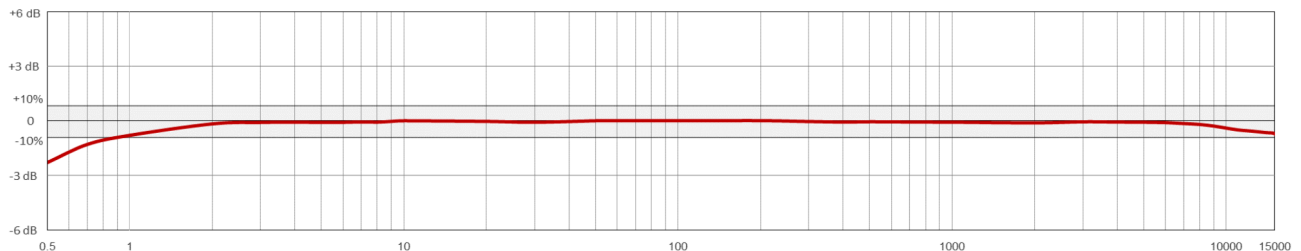
Connector Pin	Polarity
A (Axis Y)	(+) Signal/Power
B (Axis X)	(+) Signal/Power
C (Axis Z)	(+) Signal/Power
D	(-) Common/Grid



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TREA331	M/TREA331	Environmental		
Sensitivity ($\pm 15\%$)	100 mV/g		Temperature Range	-65 to 250°F	-54 to 121°C
Frequency Response ($\pm 3\text{dB}$)	30-600,000 CPM	0.5 Hz - 10kHz	Maximum Shock Protection	10,000g peak	
Dynamic Range	$\pm 50\text{g}$, peak		Electromagnetic Sensitivity	CE	
Electrical			Sealing	Welded, Hermetic	
Settling Time	<2.5 seconds		Physical		
Voltage Source (IEPE)	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	30 $\mu\text{g}/\sqrt{\text{Hz}}$		Weight	3.9 oz	110 grams
Spectral Noise @ 100 Hz	4 $\mu\text{g}/\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting	1/4-28	
Output Impedance	<100 ohm		Connector (Non-Integral)	4 pin	
Bias Output Voltage	10-14 VDC		Resonant Frequency	2,640,000 CPM	44 kHz
Case Isolation	>10 ⁸ ohm		Mounting Torque	1 to 2 ft. lbs	1.4 to 2.7 Nm
			Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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