

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

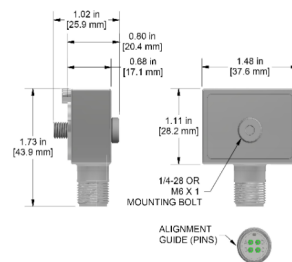
Cartesian Coordinate Phase Configuration

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

TREA331

4 Pin Connector

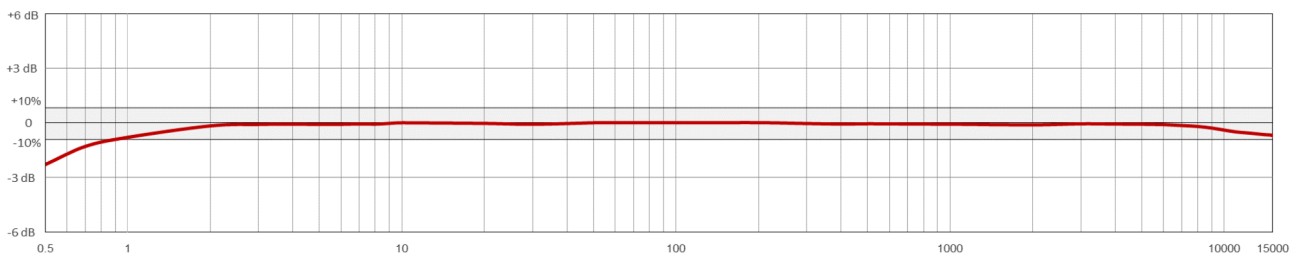
Connector Pin	Polarity
A (Axis Y)	(+) Signal/Power
B (Axis X)	(+) Signal/Power
C (Axis Z)	(+) Signal/Power
D	(-) Common/Grid



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TREA331	TREA341	Environmental		
Sensitivity (±15%)		100 mV/g	Temperature Range	-65 to 250°F	-54 to 121°C
Frequency Response (±3dB)	30-600,000 CPM	0.5 Hz - 10kHz	Maximum Shock Protection		10,000g peak
Dynamic Range		±50g, 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 µg/√Hz	Weight	3.9 oz	110 grams
Spectral Noise @ 100 Hz		4 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		2 µg/√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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