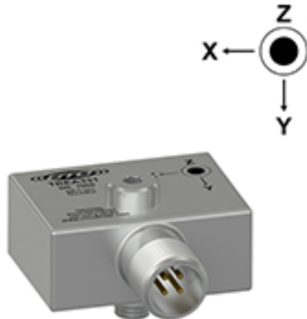


TREA331 Series



VIBRATION ANALYSIS HARDWARE

Low Cost Miniature Industrial Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, Follows Cartesian Phase Coordinate System, 100 mV/g, ±15%



Product Features

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

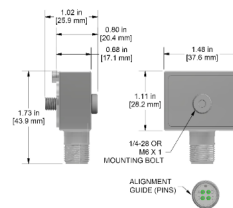
Cartesian Coordinate Phase Configuration

- ▶ 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

