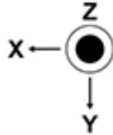


# TREA331 Series



VIBRATION ANALYSIS HARDWARE

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



## Product Features

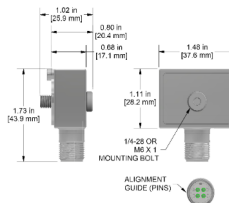
Uses J4A, J4C, or J4N Connectors and CB105, CB117, CB119, or CB218 Cables

Cartesian Coordinate Phase Configuration

- ▶ Low Cost
- ▶ Low Profile Side Exit Case
- ▶ 100 mV/g,  $\pm 15\%$  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	TREA341	<b>Environmental</b>		
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
<b>Electrical</b>			Sealing		Welded, Hermetic
Settling Time	<2.5 seconds		<b>Physical</b>		
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 <sup>8</sup> ohm		Mounting Torque	1 to 2 ft. lbs	1,4 to 2,7 Nm