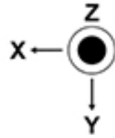


# TREA331 Series



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

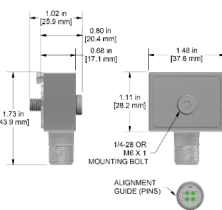
Cartesian Coordinate Phase Configuration

- ▶ 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

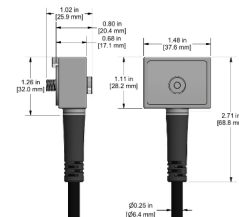


Stock Product

### TREA431

Integral Cable

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

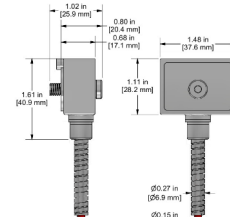


Built To Order

### TREA531

Armored Integral Cable

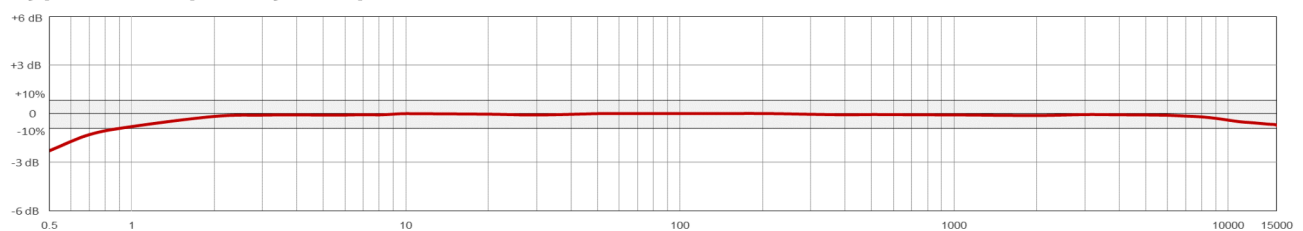
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common/Grid



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TREA331	M/TREA331	<b>Environmental</b>		
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
<b>Electrical</b>			Sealing		Welded, Hermetic
Settling Time		<2.5 seconds	Submersible Depth	200 ft.	60 m
Voltage Source (IEPE)		18-30 VDC	SIL Rating		SIL 2
Constant Current Excitation		2-10 mA	<b>Physical</b>		
Spectral Noise @ 10 Hz		30 µg/√Hz	Sensing Element		PZT Ceramic
Spectral Noise @ 100 Hz		4 µg/√Hz	Sensing Structure		Shear Mode
Spectral Noise @ 1000 Hz		2 µg/√Hz	Weight	3.9 oz	110 grams
Output Impedance		<100 ohm	Case Material		316L Stainless Steel
Bias Output Voltage		10-14 VDC	Mounting		1/4-28
Case Isolation		>10 <sup>8</sup> ohm	Connector (Non-Integral)		4 pin
			Resonant Frequency	2,640,000 CPM	44 kHz
			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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