

TREA331 Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

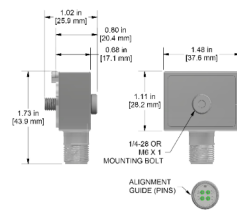
Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

- ▶ Cost Effective, High Performance Triaxial Sensor
- ▶ Low Profile, Side Exit Case is Ideally Suited for Route Based Measurements
- ▶ Compatible with CTC J Series Mini-MIL Connectors

TREA331

4 Pin Mini-MIL Connector

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

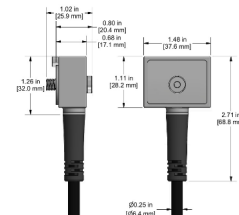


Stock Product

TREA431

CB105 Integral Cable

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

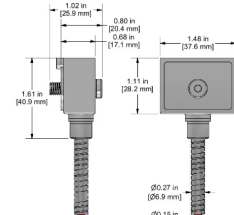


Built To Order

TREA531

CB218 Armored Integral Cable

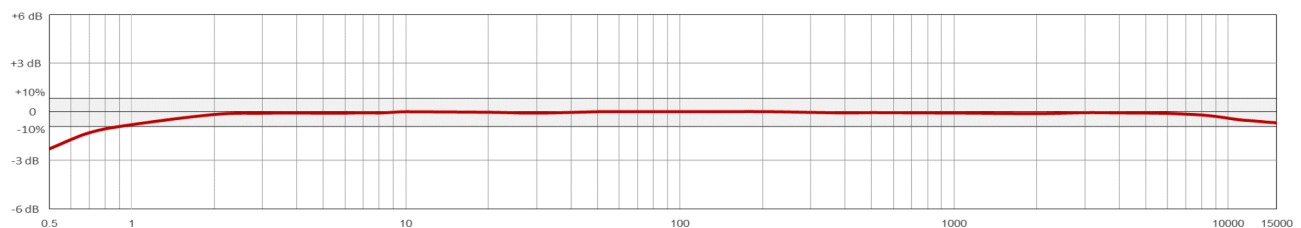
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common/Grid



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TREA331	M/TREA331	Environmental		
Sensitivity (±15%)	100 mV/g		Operating 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	± 80g, peak		Electromagnetic Sensitivity	CE	
	*Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<2.5 seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	30 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	4 µg/√Hz		Weight	3.9 oz	110 grams
Spectral Noise @ 1000 Hz	2 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Connector (Non-Integral)	4 Pin Mini-MIL	
Bias Output Voltage	10-14 VDC		Resonant Frequency	2,640,000 CPM	44 kHz
Case Isolation	>10 ⁹ ohm		Mounting Torque	1 to 2 ft. lbs	1,4 to 2,7 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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