

# TREA330 Series



VIBRATION ANALYSIS HARDWARE

Premium Miniature Industrial Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, Follows Cartesian Phase Coordinate System, 100 mV/g, ±5%



## Product Features

Collect 3 Channels of Data Simultaneously for Faster Data Collection

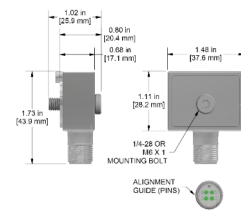
Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

- ▶ High Performance Triaxial Sensor with High End Frequency Response of 15 kHz (+3dB)
- ▶ Low Profile Side Exit Case is Ideally Suited for Route Based Measurements
- ▶ Compatible with CTC J Series Mini-MIL Connectors

### TREA330

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

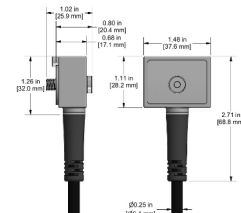


Stock Product

### TREA430

CB105 Integral Cable

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

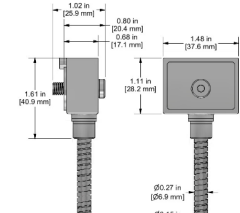


Built To Order

### TREA530

CB218 Armored Integral Cable

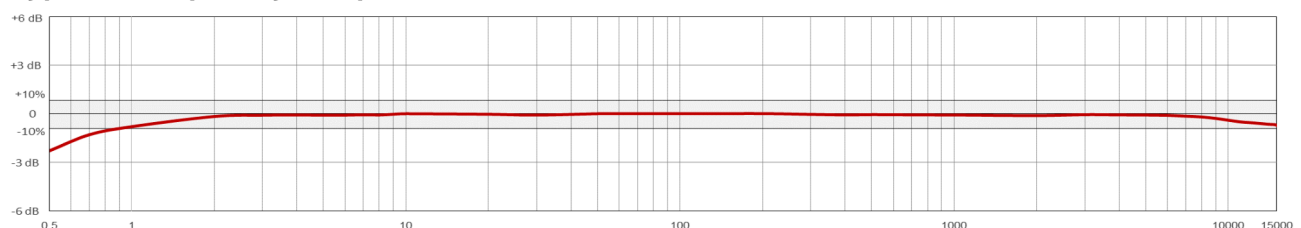
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common/Grid



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TREA330	M/TREA330	<b>Environmental</b>		
Sensitivity (±5%)		100 mV/g	Operating Temperature Range	-65 to 250°F	-54 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0.5 Hz-15 kHz	Maximum Shock Protection	10,000 g, peak	
Frequency Response (±10%)	60-480,000 CPM	1 Hz-8 kHz	Electromagnetic Sensitivity	CE	
Frequency Response (±5%)	480-330,000 CPM	8 Hz-5.5 kHz	Sealing	Welded, Hermetic	
Dynamic Range		± 80g, peak *Vsource ≥ 22V, 12Vbias	Submersible Depth	200 ft.	60 m
<b>Electrical</b>			SIL Rating	SIL 2	
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 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		Connector (Non-Integral)	4 Pin Mini-MIL	
Output Impedance	<100 ohm		Resonant Frequency	2,640,000 CPM	44 kHz
Bias Output Voltage	10-14 VDC		Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Case Isolation	>10 <sup>8</sup> ohm		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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