

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 Three Channels of Data Simultaneously for Faster Data Collection

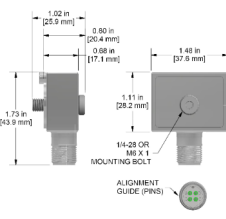
Follows Cartesian Coordinate Phase Configuration (Right-Hand Rule)

- ▶ 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

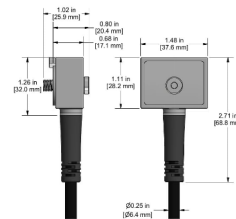
Connector Pin	Polarity
A (Axis Y)	(+) Signal/Power
B (Axis X)	(+) Signal/Power
C (Axis Z)	(+) Signal/Power
D	(-) Common



TREA430

CB105 Integral Cable

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

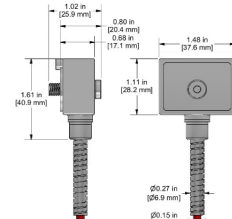


Built To Order

TREA530

CB218 Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TREA330	M/TREA330	Environmental		
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	Submersible Depth	200 ft.	60 m
Non-Linearity		*V _{source} ≥ 22V, 12V _{bias}	SIL Rating		SIL 2
Electrical		+/-1%	Physical		
Settling Time		<2.5 Seconds	Sensing Element		PZT Ceramic
Voltage Source		18-30 VDC	Sensing Structure		Shear Mode
Constant Current Excitation		2-10 mA	Weight	3.9 oz	110 grams
Spectral Noise @ 10 Hz		30 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 100 Hz		4 µg/√Hz	Connector (Non-Integral)		4 Pin Mini-MIL
Spectral Noise @ 1000 Hz		2 µg/√Hz	Resonant Frequency	2,640,000 CPM	44 kHz
Output Impedance		<100 ohm	Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Bias Output Voltage		10-14 VDC	Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation		>10 ⁹ ohm	Calibration Certificate		CA10

Typical Frequency Response

