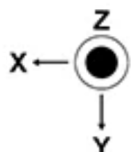


TREA330 Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

Collect Three Channels of Data Simultaneously for Faster Data Collection

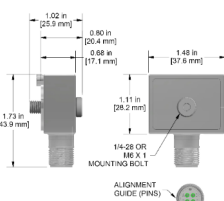
Follows Cartesian Coordinate Phase Configuration (Right-Hand Rule)

- ▶ 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

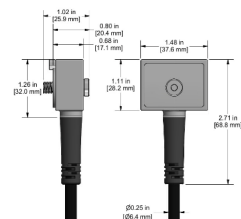


Stock Product

TREA430

CB105 Integral Cable

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

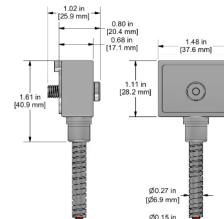


Built To Order

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	<u>Environmental</u>		
Sensitivity ($\pm 5\%$)		100 mV/g	Operating Temperature Range	-65 to 250 °F	-54 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	30-900,000 CPM	0.5 Hz-15 kHz	Maximum Shock Protection		10,000 g, peak
Frequency Response ($\pm 10\%$)	60-480,000 CPM	1 Hz-8 kHz	Electromagnetic Sensitivity		CE
Frequency Response ($\pm 5\%$)	480-330,000 CPM	8 Hz-5.5 kHz	Sealing		Welded, Hermetic
Dynamic Range		$\pm 80\text{g}$, peak	Submersible Depth	200 ft.	60 m
		*Vsource $\geq 22\text{V}$, 12Vbias	SIL Rating		SIL 2
Non-Linearity		$\pm 1\%$	<u>Physical</u>		
Transverse Sensitivity		$\leq 5\%$	Sensing Element		PZT Ceramic
<u>Electrical</u>			Sensing Structure		Shear Mode
Settling Time		<2.5 Seconds	Weight	3.9 oz	110 grams
Voltage Source		18-30 VDC	Case Material		316L Stainless Steel
Constant Current Excitation		2-10 mA	Connector (Non-Integral)		4 Pin Mini-MIL
Spectral Noise @ 10 Hz		30 $\mu\text{g}/\sqrt{\text{Hz}}$	Resonant Frequency	2,640,000 CPM	44 kHz
Spectral Noise @ 100 Hz		4 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting Torque	1 to 2 ft. lbs.	1.4 to 2.7 Nm
Spectral Noise @ 1000 Hz		2 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Output Impedance		<100 ohm	Calibration Certificate		CA10
Bias Output Voltage		10-14 VDC			
Case Isolation		>10 ⁸ ohm			

Typical Frequency Response

