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

CE

Product Features

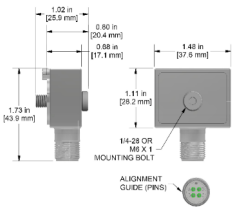
Collect 3 Channels of Data Simultaneously for Faster Data Collection

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

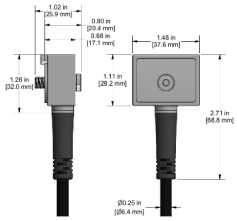
Connector Pin	Polarity
A (Axis Y)	(+) Signal/Power
B (Axis X)	(+) Signal/Power
C (Axis Z)	(+) Signal/Power
D	(-) Common/Grid



Stock Product

TREA431
CB105 Integral Cable

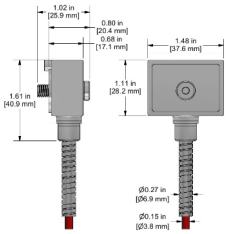
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common/Grid



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
Part Number	TREA331	M/TREA331
Sensitivity (±15%)	100 mV/g	
Frequency Response (±3dB)	30-600,000 CPM	0.5 Hz - 10kHz
Dynamic Range	± 80g, peak *Vsource ≥ 22V, 12Vbias	
Electrical		
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	30 µg/√Hz	
Spectral Noise @ 100 Hz	4 µg/√Hz	
Spectral Noise @ 1000 Hz	2 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	

Specifications	Standard	Metric
Environmental		
Operating Temperature Range	-65 to 250°F	-54 to 121°C
Maximum Shock Protection	10,000g peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Submersible Depth	200 ft.	60 m
SIL Rating	SIL 2	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.9 oz	110 grams
Case Material	316L Stainless Steel	
	4 Pin	