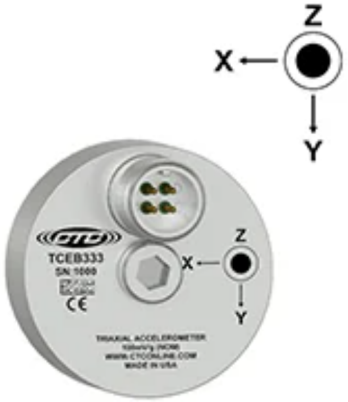
TCEB333 Series

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

VIBRATION ANALYSIS HARDWARE



Product Features

Collect Three Channels of Data Simultaneously for Faster Data Collection

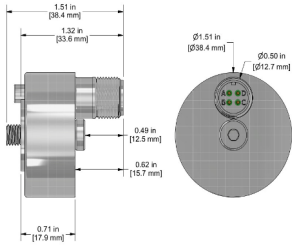
Follows Cartesian Coordinate Phase Configuration (Right-Hand Rule)

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

TCEB333

4 Pin Connector

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



Stock Product

Specifications	Standard	Metric
Part Number	TCEB333	M/TCEB333
Sensitivity (±15%)	100 mV/g	
Frequency Response (±3dB)	120 to 720,000 CPM	2 Hz to 12 kHz
Frequency Response (±10%)	240 to 600,000 CPM	4 Hz to 10 kHz
Dynamic Range	50 g *Vsource ≥ 22V, 12Vbias	
Transverse Sensitivity	≤5%	
Electrical		
Settling Time	<2.5 Seconds	
Voltage Source	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	
Case Isolation	>10^8 ohm	

Specifications	Standard	Metric
Environmental		
Operating Temperature Range	-65 to 250 °F	-54 to 121 °C
Maximum Shock Protection	10,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
SIL Rating	SIL 2	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	4.8 oz	136 grams
Case Material	316L Stainless Steel	
Connector (Non-Integral)	4 Pin Mini-MIL	
Resonant Frequency	1,020,000 CPM (±12,000 CPM)	17 kHz (±2kHz)
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