

AC365 Series

Premium, Triaxial Accelerometer, Top Exit 4 Pin Mini-MIL Connector, Follows Cartesian Phase Coordinate System, for Modal & ODS Analysis, 100 mV/g, $\pm 5\%$



VIBRATION ANALYSIS HARDWARE



Product Features

Collect Three Channels of Data Simultaneously for Faster Data Collection

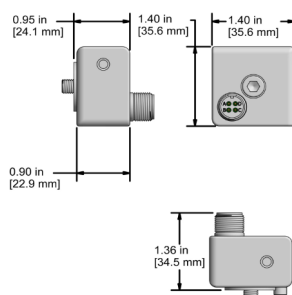
Follows Cartesian Coordinate Phase Configuration (Right-Hand Rule)

- ▶ High-Performance Triaxial Sensor with High End Frequency Response of 10 kHz (+3dB)
- ▶ Popularly Used for Modal Analysis and ODS (Operating Deflection Shape)
- ▶ Compatible with CTC J Series Mini-MIL Connectors

AC365-1D

4 Pin Connector

Connector Pin	Polarity
A (Axis Y/3)	(+) Signal/Power
B (Axis X/2)	(+) Signal/Power
C (Axis Z/1)	(+) Signal/Power
D	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC365	M/AC365	Environmental		
Sensitivity ($\pm 5\%$)	100 mV/g		Operating Temperature Range	-65 to 250 °F	-54 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	36-600,000 CPM	0.6-10000 Hz	Electromagnetic Sensitivity	CE	
Frequency Response ($\pm 10\%$)	60-390,000 CPM	1.0-6500 Hz	Sealing	IP68	
Frequency Response ($\pm 5\%$)	480-330,000 CPM	8.0-5500 Hz	SIL Rating	SIL 2	
Dynamic Range	± 50 g, peak		Physical		
	*V _{source} $\geq 22\text{V}$, 12Vbias		Sensing Element	PZT Ceramic	
Transverse Sensitivity	$\leq 5\%$		Sensing Structure	Shear Mode	
Electrical			Weight	7.1 oz	200 grams
Settling Time	<2.5 seconds		Case Material	316L Stainless Steel	
Voltage Source	18-30 VDC		Mounting Thread	1/4-28 Blind Tapped Hole	
Constant Current Excitation	2-10 mA		Connector (Non-Integral)	4 Pin Mini MIL Connector	
Spectral Noise @ 10 Hz	27 $\mu\text{g}/\sqrt{\text{Hz}}$		Resonant Frequency	1,380,000 CPM	23000 Hz
Spectral Noise @ 100 Hz	6.5 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting Torque	1 to 2 ft. lbs	1.4 to 2.7 Nm
Spectral Noise @ 1000 Hz	2.5 $\mu\text{g}/\sqrt{\text{Hz}}$		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

