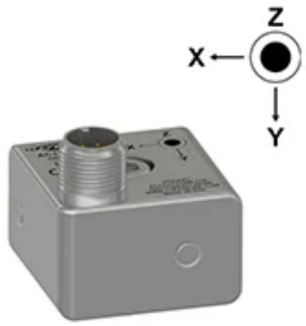
AC155 Series

Low Cost, Triaxial Accelerometer, Top Exit 4 Pin Mini-MIL Connector, Follows Cartesian Phase Coordinate System, for Modal & ODS Analysis, 100 mV/g, ±15%

VIBRATION ANALYSIS HARDWARE



Product Features

Collect Three Channels of Data Simultaneously for Faster Data Collection

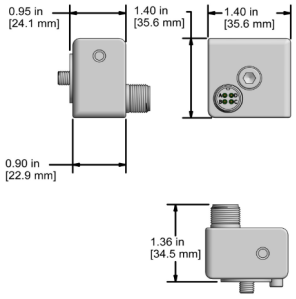
Follows Cartesian Coordinate Phase Configuration (Right-Hand Rule)

- Popularly Used for Modal Analysis and ODS (Operating Deflection Shape)
- Compatible with CTC J Series Mini-MIL Connectors

AC155-1D

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
Part Number	AC155	M/AC155
Sensitivity (±15%)	100 mV/g	
Frequency Response (±3dB)	36-390,000 CPM	0,6-6500 Hz
Dynamic Range	± 50 g, peak *Vsource ≥ 22V, 12Vbias	
Electrical		
Settling Time	<2.5 seconds	
Voltage Source	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	27 µg/√Hz	
Spectral Noise @ 100 Hz	6.5 µg/√Hz	
Spectral Noise @ 1000 Hz	2.5 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
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
SIL Rating	SIL 2	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	7.1 oz	200 grams
Case Material	316L Stainless Steel	
Mounting Thread	1/4-28 Blind Tapped Hole	
Connector (Non-Integral)	4 Pin Mini MIL Connector	
Resonant Frequency	1,380,000 CPM	23000 Hz
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