

AC155 Series

Low Cost Modal/ODS Triaxial Accelerometer, Top Exit Connector, 100 mV/g

SECTION 1 - VIBRATION SENSORS
Accelerometers



Actual Product Size Shown



Must Use J4A, J4C or J4N Connectors
Must Use CB105, CB117, CB119 or CB218 Cables

Product Features

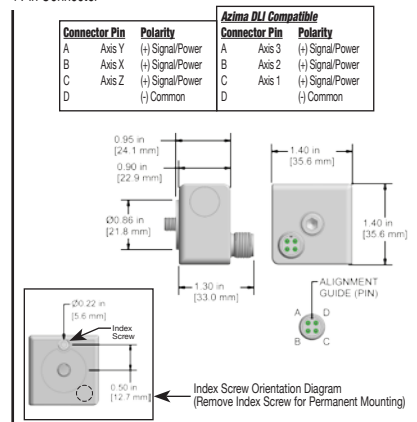
Modal/ODS Triaxial Sensor

Collect 3 Axes of Data for Modal Analysis and ODS (Operating Deflection Shape)

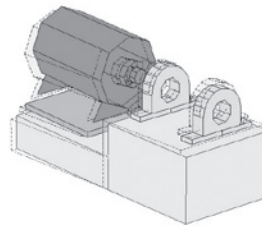
- 100 mV/g, $\pm 15\%$ Sensitivity
- Phase conforms to Cartesian Coordinate System (Right Hand Rule)

AC155-1D

4 Pin Connector



Operating Deflection Shape created from vibration and phase measurements.



Specifications	Standard	Metric
Part Number	AC155	M/AC155
Sensitivity ($\pm 15\%$)	100 mV/g	
Frequency Response ($\pm 3\text{dB}$)	36-390,000 CPM	0,6-6500 Hz
Dynamic Range	± 50 g, peak	
Electrical		
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	27 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 100 Hz	6.5 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 1000 Hz	2.5 $\mu\text{g}/\sqrt{\text{Hz}}$	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-65 to 250°F	-54 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	7.1 oz	200 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	4 Pin, J Series Connector	
Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Mounting Hardware*	1/4-28 Captive Bolt	M6x1 Captive Bolt
Indexing Screw	Provided for consistent axis orientation, may be removed in permanent installations	
Calibration Certificate	CA10	

*MH108-11B Adapter Screw 10-32 is Optional

Ordering Information

Standard	AC155-1D (1/4-28 Captive Bolt)	
Metric	M/AC155-1D (M6x1 Captive Bolt)	

Backed by our Unconditional Lifetime Warranty

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