AC365 Series

Modal/ODS Triaxial Accelerometer, 100 mV/g, ± 5%

CE

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

Product Features

Modal/ODS Triaxial Sensor

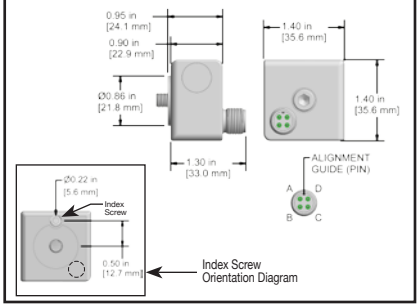
Collect 3 Axes of Data for Modal Analysis and ODS (Operating Deflection Shape)

- ***Premium 100 mV/g, ±5% Sensitivity***
- ***Phase conforms to Cartesian Coordinate System (Right Hand Rule)***

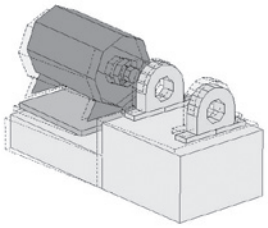
AC365-1D

4 Pin Connector

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



Operating Deflection Shape created from vibration and phase measurements.



Specifications	Standard	Metric
Part Number	AC365	M/AC365
Sensitivity (±5%)	100 mV/g	
Frequency Response (±3dB)	36-600,000 CPM	0,6-10000 Hz
Frequency Response (±10%)	60-390,000 CPM	1,0-6500 Hz
Frequency Response (±5%)	480-330,000 CPM	8,0-5500 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 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		
Temperature Range	-65 to 250°F	-54 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	IP68	
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	
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	AC365-1D (1/4-28 Captive Bolt)	Stock Product
Metric	M/AC365-1D (M6x1 Captive Bolt)	Stock Product

CTC multi-conductor cable

Red = Y axis
Green = X axis
White = Z axis
Black = Common

Cable Termination Options: E3C F3C L Z

Other Cable Termination Options Available, Please Contact CTC For Details