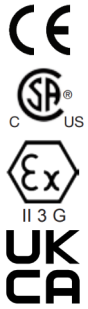


AC949 Series



VIBRATION ANALYSIS HARDWARE

Nonincendive, CSA North America Class I, Division 2 Approved
 Biaxial Accelerometer, Side Exit 3 Pin Connector, with X and Z Axis,
 100 mV/g, ±10%



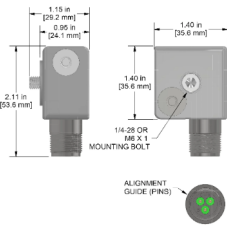
Product Features

CSA North America Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III

- ▶ NOTE: Class I, Division 2 / Ex nA IIC when installed using an approved Zone 2 / Division 2 rated cable in accordance with the CEC or the NEC.
- ▶ Suggested Approved Cabling: CB192 or CB298 Cable and Q3AB Connector

AC949-1D 3 Pin Connector

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

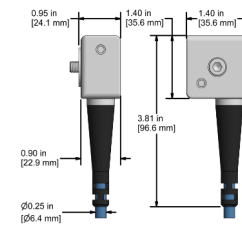


Stock Product

AC949-2D

CB192 Integral Cable

Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common

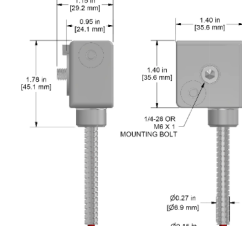


Built To Order

AC949-3D

CB218 Armored Integral Cable

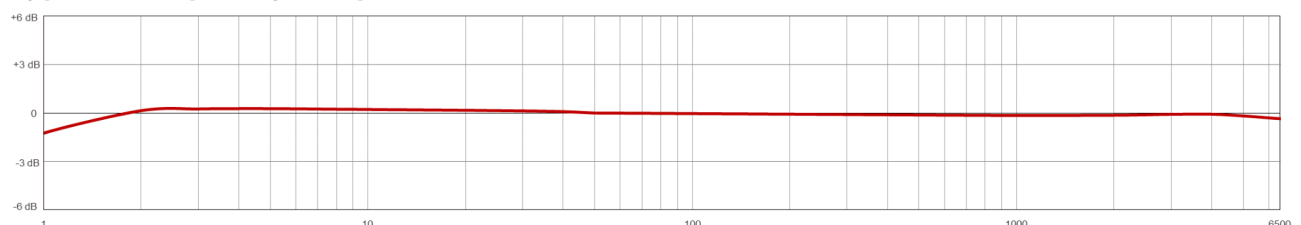
Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard		Metric		Specifications	Standard		Metric	
	AC949		M/AC949						
Part Number	AC949		M/AC949		Environmental				
Sensitivity (±10%)	100 mV/g				Operating Temperature Range	-58 to 250°F		-50 to 121°C	
Frequency Response (±3dB)	60-390,000 CPM		1.0-6500 Hz		Maximum Shock Protection	CE			
Dynamic Range	± 50 g, peak				Sealing	Welded, Hermetic			
Electrical					Physical				
Settling Time	<2.5 seconds				Sensing Element	PZT Ceramic			
Voltage Source (IEPE)	18-28 VDC				Sensing Structure	Shear Mode			
Constant Current Excitation	2-10 mA				Weight	6.9 oz		195 grams	
Spectral Noise @ 10 Hz	27 µg/√Hz				Case Material	316L Stainless Steel			
Spectral Noise @ 100 Hz	6.5 µg/√Hz				Mounting Thread	1/4-28			
Spectral Noise @ 1000 Hz	2.5 µg/√Hz				Connector (Non-Integral)	3 Pin MIL-C-5015			
Output Impedance	<100 ohm				Mounting Torque	1 to 2 ft. lbs.		1.4 to 2.7 Nm	
Bias Output Voltage	10-14 VDC				Mounting Hardware Supplied	1/4-28 Captive Bolt		M6x1 Captive Bolt	
Case Isolation	>10 ⁸ ohm				Calibration Certificate	CA10			

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

www.ctconline.com | sales@ctconline.com | 585-924-5900