

# AC949 Series



VIBRATION ANALYSIS HARDWARE

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



## Regulatory Information

Ex nA IIC T3C Gc  
 AEx nA IIC T3C Gc  
 CLI Groups A, B, C, D  
 CLII Groups E, F, G; CLIII  
 CLI, Zone 2

Ui = 28 Vdc Ii = 100 mA  
 Ci = 0µf Li = 51uH Pi = 100 mW  
 CSA 221421

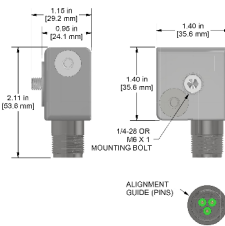
Sira 15ATEX2152X  
 Ex nA IIC T3 Gc

Operating Temperature Code: T3C  
 Ambient Temperature Range = -40 to 121°C

### AC949-1D

3 Pin Connector

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

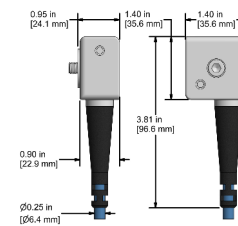


Stock Product

### AC949-2D

CB192 Integral Cable

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

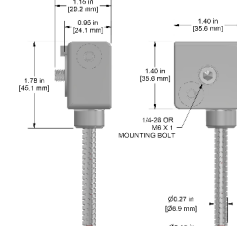


Built To Order

### AC949-3D

CB218 Armored Integral Cable

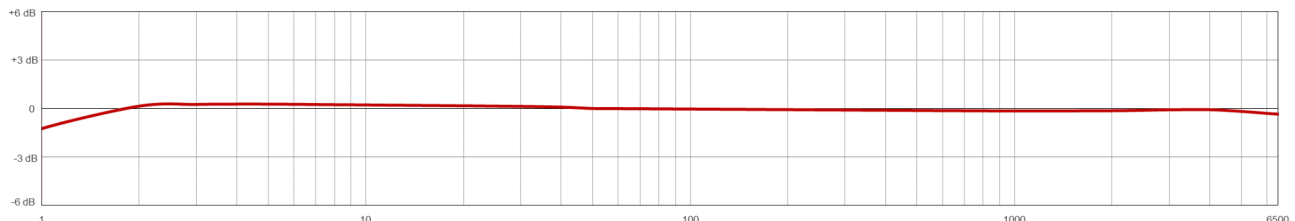
Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC949	M/AC949	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	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
<b>Electrical</b>			<b>Physical</b>		
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		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	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation		>10 <sup>8</sup> ohm	Calibration Certificate		CA10

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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