

AC979 Series



VIBRATION ANALYSIS HARDWARE

Nonincendive Intrinsically Safe, CSA North America Class 1, Division 1 and IECEx/ATEX Zone 0,1 Approved Biaxial Accelerometer, Side Exit 3 Pin Connector, with X and Z Axis, 100 mV/g, ±10%

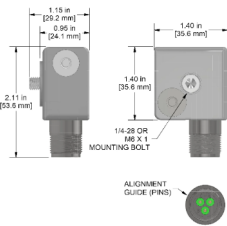


Regulatory Information

Ex ia IIC T3/T4 Ga	CSA 22 UKEX 1408X
AEx ia IIC T3/T4 Ga	Ex ia IIC T3/T4 Ga
CLI Groups A, B, C, D	Ex ia I Ma
CLII Groups E, F, G; CLIII	
CL I, Zone 0	Sira 15ATEX2152X
Operating Temperature Code: T4	Ex ia IIC T3 Ga
Ambient Temperature Range = -40 to 80°C	Ex ia I Ma
Operating Temperature Code: T3	IECEx SIR 15.0060X
Ambient Temperature Range = -40 to 121°C	Ex ia IIC T3 Ga
Control Drawing INS10012	Ex ia I Ma
Ui = 28 Vdc li = 112 mA	
Pi = 1W, Ci = 63.036nF, Li = 0µH	
CSA 221421	

AC979-1D 3 Pin Connector

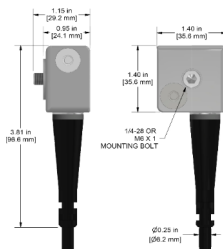
Connector Pin	Polarity
A (Axis X)	(+) Signal/Power
B (Axis Z)	(+) Signal/Power
C	(-) Common



Stock Product

AC979-2D CB192 Integral Cable

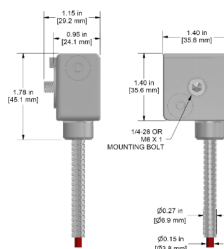
Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



Built To Order

AC979-3D CB218 Armored Integral Cable

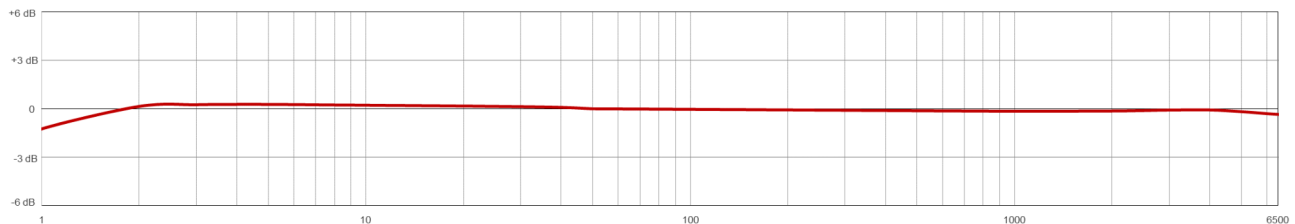
Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC979	M/AC979	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	Electromagnetic Sensitivity		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 ⁹ ohm	Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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