

# AC979 Series



VIBRATION ANALYSIS HARDWARE

Intrinsically Safe Biaxial Accelerometer, Side Exit 3 Pin Connector, with X and Z Axis, 100 mV/g, ±10%



**IECEX**  
IECEX SIR 15.0060X



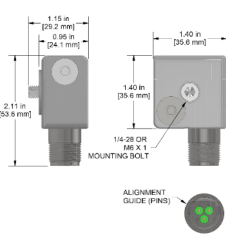
## Regulatory Information

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

### AC979-1D

3 Pin Connector

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

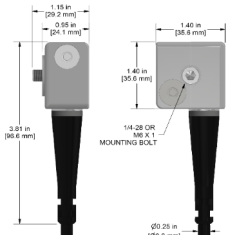


**Stock Product**

### AC979-2D

CB192 Integral Cable

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

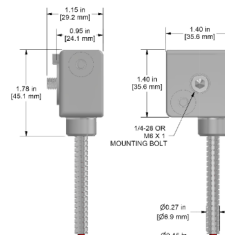


**Built To Order**

### AC979-3D

CB218 Armored Integral Cable

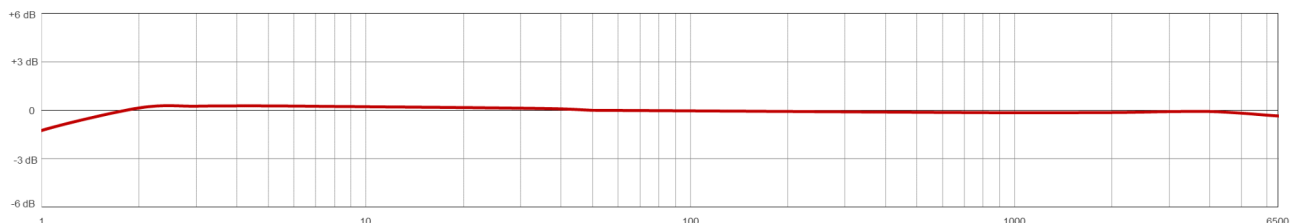
Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



**Built To Order**

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC979	M/AC979	<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	Electromagnetic Sensitivity	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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