

AC979 Series

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



VIBRATION ANALYSIS HARDWARE



IECEx
IECEx SIR 15.0060X

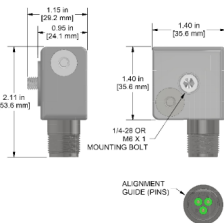


Regulatory Information

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	
CLI, Zone 0	Sira 15ATEX2152X
	Ex ia IIC T3 Ga
Operating Temperature Code: T4 Ex ia I Ma	
Ambient Temperature Range = -40 to 80°C	
	IECEx SIR 15.0060X
Operating Temperature Code: T3 Ex ia IIC T3 Ga	
Ambient Temperature Range = -40 to 121°C	
Control Drawing INS10012	
Ui = 28 Vdc li = 112 mA	
Pi = 1W, Ci = 63.036nF, Li = 0µH	
CSA 221421	

AC979-1D 3 Pin Connector

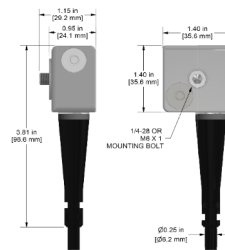
Connector Pin	Polarity
A (Axis X)	(+) Signal/Power
B (Axis Z)	(+) Signal/Power
C	(-) Common



Stock Product

AC979-2D CB192 Integral Cable

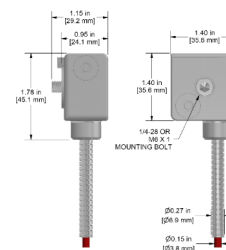
Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



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.	1,4 to 2,7
Bias Output Voltage		10-14 VDC			
Case Isolation		>10 ⁸ ohm			