

AC980 Series

Intrinsically Safe Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE

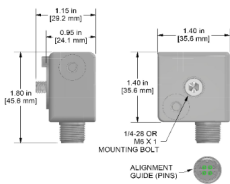


Regulatory Information

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	

AC980-1D 4 Pin Connector

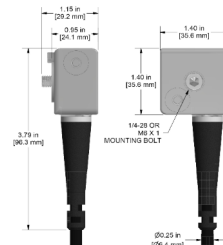
Connector Pin	Polarity
A (Axis Y)	(+) Signal/Power
B (Axis X)	(+) Signal/Power
C (Axis Z)	(+) Signal/Power
D	(-) Common



Stock Product

AC980-2D CB192 Integral Cable

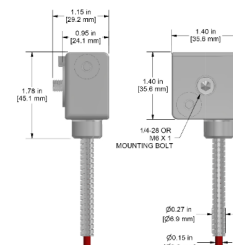
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



Built To Order

AC980-3D CB218 Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC980	M/AC980	<u>Environmental</u>		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-65 to 250°F	-54 to 121°C
Frequency Response (±3dB)	36-600,000 CPM	0,6-10000 Hz	Electromagnetic Sensitivity		CE
Frequency Response (±10%)	60-390,000 CPM		Sealing		Welded, Hermetic
Dynamic Range		± 50 g, peak	<u>Physical</u>		
<u>Electrical</u>			Sensing Element		PZT Ceramic
Settling Time		<2.5 seconds	Weight	7.1 oz	200 grams
Voltage Source (IEPE)		18-28 VDC	Case Material		316L Stainless Steel
Constant Current Excitation		2-10 mA	Mounting Thread		1/4-28 Captive Bolt
Spectral Noise @ 10 Hz		27 µg/√Hz	Connector (Non-Integral)		4 Pin J Connector
Spectral Noise @ 100 Hz		6.5 µg/√Hz			
Spectral Noise @ 1000 Hz		2.5 µg/√Hz			