

AC982 Series



VIBRATION ANALYSIS HARDWARE

Nonincedive Intrinsically Safe, CSA North America Class 1, Division 1 and IECEx/ATEX Zone 0,1 Approved Triaxial Accelerometer, Follows Cartesian Phase Coordinate System for Modal/ODS Analysis, Side Exit 4 Pin Mini-MIL Connector, 100 mV/g, ±10%



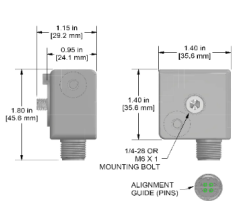
Regulatory Information

Ex ia IIC T3/T4 Ga	CSA 22 UKEX 1408X
AEx is 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	Sira 15ATEX2152X
CLI, Zone 0	Ex ia IIC T3 Ga
	Ex ia I Ma
Operating Temperature Code: T4	
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
Control Drawing INS10012	Ex ia I Ma
Ui = 28 Vdc li = 112 mA	
Pi = 1W, Ci = 63.036nF, Li = 0µH	
CSA 221421	

AC982-1D

4 Pin Connector

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

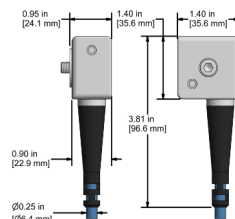


Stock Product

AC982-2D

CB192 Integral Cable

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

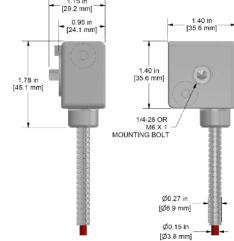


Built To Order

AC982-3D

CB218 Armored Integral Cable

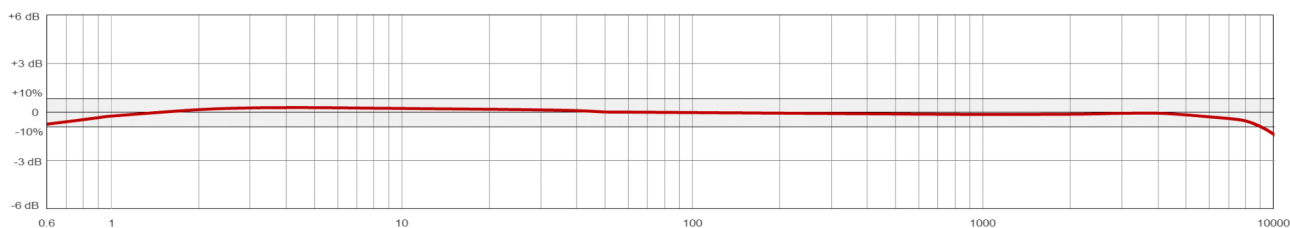
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC982	M/AC982	Environmental		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-65 to 250°F	-54 to 121°C
Frequency Response (±3dB)	30-600,000 CPM	0.6-10000 Hz	Electromagnetic Sensitivity	CE	
Frequency Response (±10%)	60-390,000 CPM	1.0-6500 Hz	Sealing	Welded, Hermetic	
Frequency Response (±5%)	480-330,000 CPM	8.0-5500 Hz	SIL Rating	SIL 2	
Dynamic Range		± 50g, peak	Physical		
Electrical			Sensing Element	PZT Ceramic	
Settling Time	<2.5 Seconds		Sensing Structure	Shear Mode	
Voltage Source (IEPE)	18-28 VDC		Weight	7.1 oz	200 grams
Constant Current Excitation	2-10 mA		Case Material	316L Stainless Steel	
Spectral Noise @ 10 Hz	27 µg/√Hz		Mounting Thread	1/4-28	
Spectral Noise @ 100 Hz	6.5 µg/√Hz		Connector (Non-Integral)	4 Pin, J Series	
Spectral Noise @ 1000 Hz	2.5 µg/√Hz		Mounting Torque	1 to 2 ft. lbs.	1.4 to 2.7 Nm
Output Impedance	<100 ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Bias Output Voltage	10-14 ohm		Calibration Certificate	CA10	
Case Isolation	>10 ⁸ ohm				

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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