AC982 Series

Intrinsically Safe Triaxial Accelerometer, Follows Cartesian Phase Coordinate System for Modal/ODS Analysis, Side Exit 4 Pin Mini-MIL Connector, 100 mV/g, ±10%

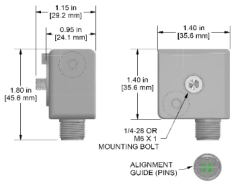
VIBRATION ANALYSIS HARDWARE

Regulatory Information

Ex ia IIC T3/T4 Ga	CSA 22 UKEX 1408X
AEx 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	
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 =	Ex ia I Ma
-40 to 121°C	
Control Drawing INS10012	
Ui = 28 Vdc Ii = 112 mA	
Pi = 1W, Ci = 63.036nF, Li = 0µH	
CSA 221421	

AC982-1D
4 Pin Connector

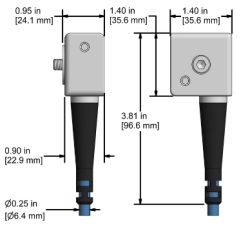
Connector Pin	Polarity
A (Axis Y)	(+) Signal/Power
B (Axis X)	(+) Signal/Power
C (Axis Z)	(+) Signal/Power
D	(-) Common



Stock Product

AC982-2D
CB192 Integral Cable

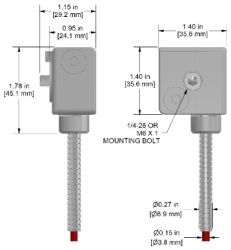
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



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
Part Number	AC982	M/AC982
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	30-600,000 CPM	0,6-10000 Hz
Frequency Response (±10%)	60-390,000 CPM	1,0-6500 Hz
Frequency Response (±5%)	480-330,000 CPM	8,0-5500 Hz
Dynamic Range	± 50g, peak	
Electrical		
Settling Time	<2.5 Seconds	
Voltage Source (IEPE)	18-28 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	27 µg/√Hz	

Specifications	Standard	Metric
Environmental		
Operating Temperature Range	-65 to 250°F	-54 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
SIL Rating	SIL 2	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	7.1 oz	200 grams
Case Material	316L Stainless Steel	
Mounting Thread	1/4-28	