

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%



Regulatory Information

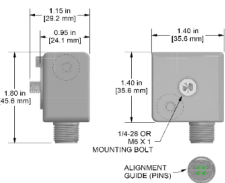
Ex ia IIC T3/T4 Ga
AEx is IIC T3/T4 Ga
CLI Groups A, B, C, D
CLII Groups E, F, G; CLIII
CLI, Zone 0

CSA 22 UKEX 1408X
Ex ia IIC T3/T4 Ga
Ex ia I Ma
Sira 15ATEX2152X
Ex ia IIC T3 Ga

Operating Temperature Code: T4 Ex ia I Ma
Ambient Temperature Range =
-40 to 80°C
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

AC982-1D
4 Pin Connector

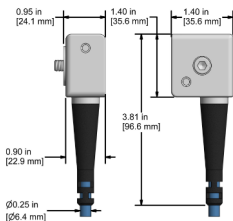
Connector	Polarity
Pin	
A (Axis Y)	(+) Signal/Power
B (Axis X)	(+) Signal/Power
C (Axis Z)	(+) Signal/Power
D	(-) Common



Stock Product

AC982-2D
CB192 Integral Cable

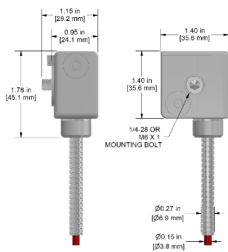
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



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		Sensing Element	PZT Ceramic	
Electrical			Sensing Structure	Shear Mode	
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	
Spectral Noise @ 10 Hz	27 μg/√Hz				