

AC979 Series

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



Regulatory Information

Ex ia IIC T3/T4 Ga

AEx ia IIC T3/T4 Ga

CLI Groups A, B, C, D

CLII Groups E, F, G; CLIII

CLI, Zone 0

Operating Temperature Code: T4

Ambient Temperature Range = -40 to 80°C

Operating Temperature Code: T3

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

CSA 22 UKEX 1408X

Ex ia IIC T3/T4 Ga

Ex ia I Ma

Sira 15ATEX2152X

Ex ia IIC T3 Ga

Ex ia I Ma

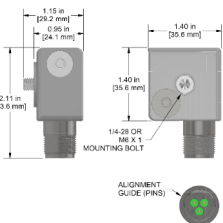
IECEX SIR 15.0060X

Ex ia IIC T3 Ga

Ex ia I Ma

AC979-1D
3 Pin Connector

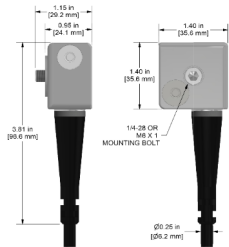
Connector	Polarity
Pin	
A (Axis X)	(+) Signal/Power
B (Axis Z)	(+) Signal/Power
C	(-) Common



Stock Product

AC979-2D
CB192 Integral Cable

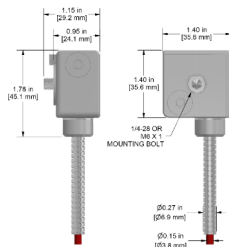
Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



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