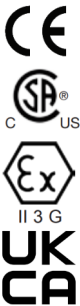


AC949 Series

Class I, Division 2 / Zone 2 Biaxial Accelerometer, Side Exit 3 Pin Connector, with X and Z Axis, 100 mV/g, ±10%



Regulatory Information

Ex nA IIC T3C Gc
AEx nA IIC T3C Gc
CLI Groups A, B, C, D
CLII Groups E, F, G; CLIII
CLI, Zone 2

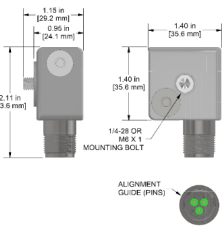
Ui = 28 Vdc li = 100 mA
Ci = 0µf Li = 51uH Pi =
100 mW
CSA 221421

Sira 15ATEX2152X
Ex nA IIC T3 Gc

Operating Temperature Code: T3C
Ambient Temperature Range = -40 to 121°C

AC949-1D
3 Pin Connector

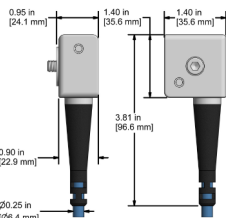
Connector Pin	Polarity
A (Axis X)	(+) Signal/Power
B (Axis Z)	(+) Signal/Power
C	(-) Common



Stock Product

AC949-2D
CB192 Integral Cable

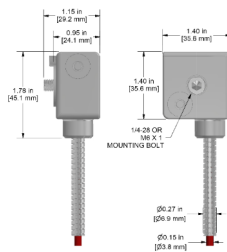
Conductor	Polarity
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common



Built To Order

AC949-3D
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	AC949	M/AC949	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	Maximum Shock Protection	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)	MIL-C-5015	
Output Impedance	<100 ohm		Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Bias Output Voltage	10-14 VDC		Mounting Hardware Supplied	Captive Bolt	M6x1 Captive Bolt
Case Isolation	>10 ⁸ ohm		Calibration Certificate	CA10	