

AC950 Series

Class I, Division 2/Zone 2 Accelerometer, For Use In "Non-Arcing, Non-Sparking" Environments, Triaxial Accelerometer, Connector/Cable, 100 mV/g

CSA/ATEX Approved

Actual Product Size Shown



Must Use "Class I, Division 2" CB192 or CB218 Cable and J4Q Connector

REGULATORY INFORMATION

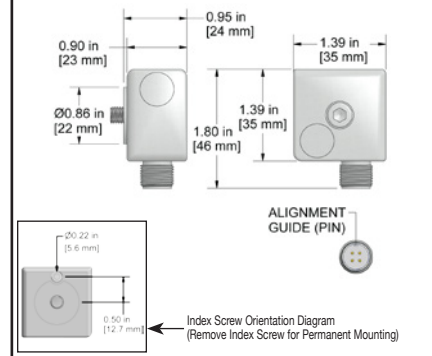
Ex nA IIC T3C Gc
 AEx nA IIC T3C Gc
 CLI Groups A, B, C, D
 CLII Groups E, F, G; CLIII
 CLI, Zone 2

Operating Temperature Code: T3C
 Ambient Temperature Range = -40°C to +121°C
 Ui = 28 Vdc li = 100 mA
 CSA 221421
 Sira 15ATEX2152X
 Ex nA IIC T3 Ga

AC950-1D

4 Pin Connector

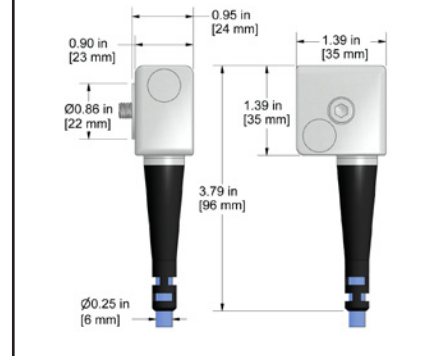
Connector Pin	Polarity
A	Axis Y (+) Signal/Power
B	Axis X (+) Signal/Power
C	Axis Z (+) Signal/Power
D	(-) Common



AC950-2D

Integral Cable

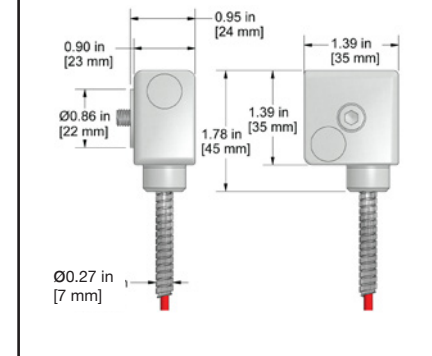
Conductor	Polarity
Red	Axis Y (+) Signal/Power
Green	Axis X (+) Signal/Power
White	Axis Z (+) Signal/Power
Black	(-) Common



AC950-3D

Armored Integral Cable

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



Specifications	Standard	Metric
Part Number	AC950	M/AC950
Vibration		
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	36-600,000 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	± 50 g, 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	
Spectral Noise @ 100 Hz	6.5 µg/√Hz	
Spectral Noise @ 1000 Hz	2.5 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-65 to 250°F	-54 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	7.1 oz	200 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (AC950-1D)	4 Pin mini-MIL, J Series Connectors	
Integral Cable (AC950-2D)	Blue TPE Cable	
Armored Cable (AC950-3D)	Armor Jacketed Cable	
Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Indexing Screw	Provided for consistent axis orientation, may be removed in permanent installations	
Calibration Certificate	CA10	

Ordering Information

Standard	AC950-1D	AC950-2D /	AC950-3D /
	(1/4-28 Captive Bolt) Stock Product	(1/4-28 Captive Bolt) Build To Order	(1/4-28 Captive Bolt) Build To Order
	[Diagram]	[Diagram]	[Diagram]
	[Diagram]	[Diagram]	[Diagram]
Metric	M/AC950-1D (M6x1 Captive Bolt) Stock Product	M/AC950-2D / (M6x1 Captive Bolt) Build To Order	M/AC950-3D / (M6x1 Captive Bolt) Build To Order
	[Diagram]	[Diagram]	[Diagram]
	[Diagram]	[Diagram]	[Diagram]

CTC multi-conductor cable

Red = Y axis
 Green = X axis
 White = Z axis
 Black = Common

Read Before Purchasing
 Important information on Regulatory Approvals and Requirements on Page 87



VIBRATION ANALYSIS HARDWARE

Backed by our Unconditional Lifetime Warranty