AC950 Series

Nonincendive, CSA North America Class I, Division 2, ATEX/IECEx Zone 2 Approved Triaxial Accelerometer, Side Exit 4 Pin Mini-MIL Connector, 100 mV/g, ±10%

VIBRATION ANALYSIS HARDWARE

Regulatory Information

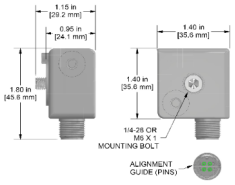
CSA 221421
Ex nA IIC T3 Gc
Cl, Z2, AEx nA IIC T3 Gc
Cl, D2, Gr A -D, Cll, D1, CLll T3
-40°C ≤ Ta ≤ +121°C
Control Drawing INS10035
Ui = 28VDC, Ii = 100mA, Pi = 100mW, Ci = 0nF, Li = 51µH

Approved Cabling: CB192* and CB298 (*Approved for Use in T4 Applications Only)

CSACa 24ATEX1004X
IECEx CSA 240015X
Ex ec IIC T* °C Gc
Ex tc IIIC T135 °C Dc
Temperature code for gas for ambient range:
T4 for ambient range of -40 °C to +80 °C
T3 for ambient range of -40 °C to +121 °C
V = 28VDC I = 10mA

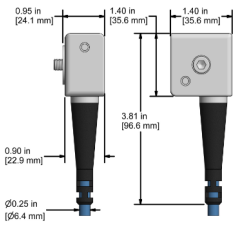
AC950-1D
4 Pin Connector

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



AC950-2D
Integral Cable

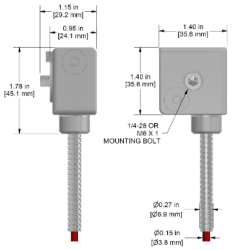
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common/GND



Built To Order

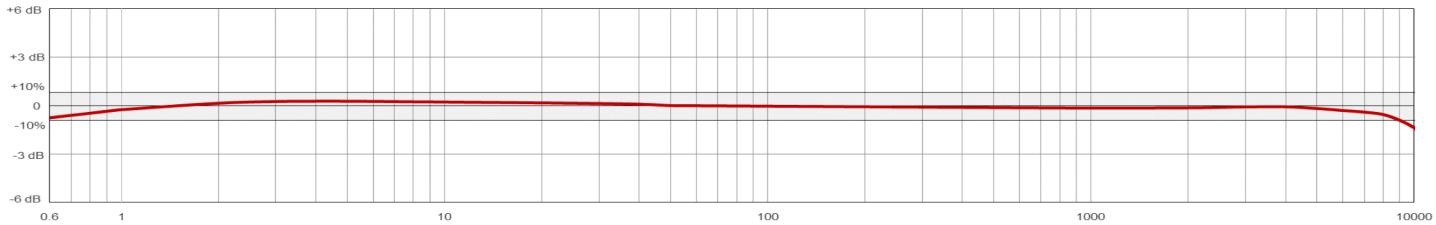
AC950-3D
Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric
Part Number	AC950	M/AC950
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
Dynamic Range	± 50 g, peak	
Electrical		
Settling Time	<2.5 seconds	
Voltage Source	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		
Operating Temperature Range	-58 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 Thread	1/4-28	
Connector (Non-Integral)	4 Pin mini-MIL, J Series Connectors	
Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Calibration Certificate	CA10	

Typical Frequency Response