

AC974 Series

Miniature Industrial Intrinsically Safe Accelerometer, Side Exit 2
Pin Mini-MIL Connector, 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

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
Ambient Temperature Range =
-40 to 80°C

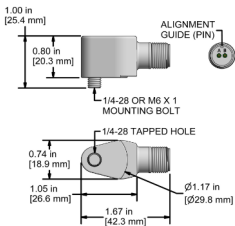
Operating Temperature Code: T3
Ambient Temperature Range =
-40 to 121°C

Control Drawing INS10012
Ui = 28 Vdc li = 112 mA
Pi = 1W, Ci = 63.036nF, Li = 0μH
CSA 221421

IECEX SIR 15.0060X

AC974-1D
2 Pin Connector

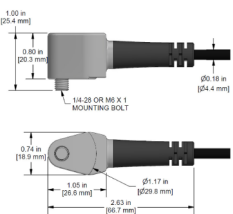
Connector	Polarity
Pin	
A	(+) Signal/Power
B	(-) Common



Stock Product

AC974-2D
CB193 Integral Cable

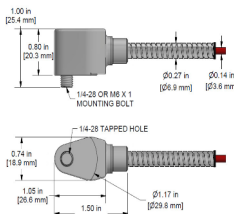
Conductor	Polarity
White	(+) Signal/Power
Black	(-) Common



Built To Order

AC974-3D
CB296 Armored Integral Cable

Conductor	Polarity
White	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC974	M/AC974	Environmental		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	36-600,000 CPM	0,6-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range		± 50 g, peak	Electromagnetic Sensitivity	CE	
Electrical			Sealing	Welded, Hermetic	
Settling Time	<2.5 Seconds		Physical		
Voltage Source (IEPE)	18-28 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	30 μg/√Hz		Weight	2.1 oz	60 grams
Spectral Noise @ 100 Hz	4 μg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2 μg/√Hz		Mounting Thread	1/4-28	
Output Impedance	< 100 ohm		Connector (Non-Integral)	2 Pin mini-MIL	
Case Isolation	>10 ⁸ ohm		Resonant Frequency	1,920,000 CPM	32000 Hz