Intrinsically Safe mini-MIL Accelerometer, Side Exit Connector/Cable, 100 mV/g

CSA/ATEX/IECEX Approved

Actual Product Size Shown









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

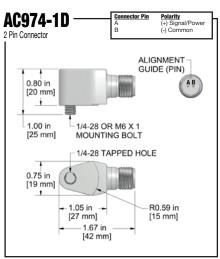
Operating Temperature Code: T4
Ambient Temperature Range = -40°C to +80°C
Operating Temperature Code: T3
Ambient Temperature Range = -40°C to +121°C

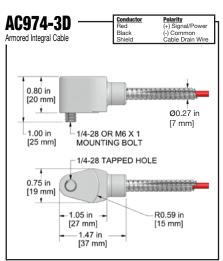
Control Drawing INS10012 Ui = 28 Vdc li = 112 mA Pi = 1W, Ci = 63.036nF, Li = 0µH CSA 221421

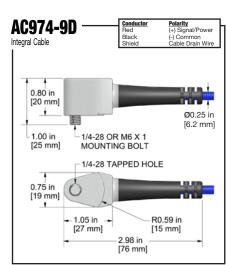
Sira 15ATEX2152X Ex ia IIC T3 Ga

IECEx SIR 15.0060X Ex ia IIC T3 Ga

Requires Intrinsically Safe Barrier IS111







Specifications	Standard	Metric
Part Number	AC974	M/AC974
Vibration		
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	36-600,000 CPM 0,6-10000 H	
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	30 μg/√Hz	
Spectral Noise @ 100 Hz	4 μg/√Hz	
Spectral Noise @ 1000 Hz	2 μg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

Specifications	Standard	Metric
<u>Environmental</u>		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
<u>Physical</u>		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	2.1 oz	60 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (AC974-1D) Armored Cable (AC974-3D) Integral Cable (AC974-9D)	2 Pin mini-MIL, J Series Connector Armor Jacketed Cable Blue TPE Cable	
Resonant Frequency	1,920,000 CPM	32000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Calibration Certificate	CA10	

Ordering Information

Standard	AC974-1D (1/4-28 Captive Bolt) Stock Product	AC974-3D / (1/4-28 Captive Build (maximum armor length 100 ft.) (cable length in feet) - [termination] AC974-9D / (1/4-28 Captive Build (length in feet) (lengt			
Metric	M/AC974-1D (M6x1 Captive Bolt) Stock Product	M/AC974-3D / / / Loable length in feet) - Lemination / (cable length in feet) - Lemination / (cable length in feet) - Lemination / (cable length in feet) - Lemination / (maximum armor length 30 m) / (cable length in meters) - Lemination / (cable length in meters) - Lemination / (length in meters) - Lemination /			



Cable Terminations: L _____ Z ___

