## Intrinsically Safe Accelerometer, Biaxial Accelerometer, Connector/Cable, 100 mV/g

CSA/ATEX/IECEX **Approved** Actual Product Size Shown **IECE**x

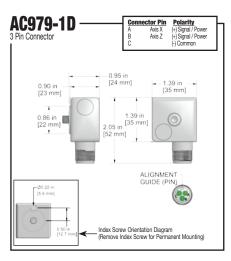
## **REGULATORY INFORMATION**

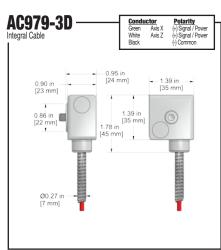
Ex ia IIC T3/T4 Ga AEx ia IIC T3/T4 Ga CLI Groups A, B, C, D CLII Groups E, F, G; CLIII CLI, Zone 0

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,  $Li = 0\mu H$ 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	AC979	M/AC979	
<u>Vibration</u>			
Sensitivity (±10%)	100 mV/g		
Frequency Response (±3dB)	60-390,000 CPM	1,0-6500 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 <sup>8</sup> ohm		

Specifications	Standard	Metric
<b>Environmental</b>		
Temperature Range	-58 to 250°F	-50 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
<u>Physical</u>		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	6.9 oz	195 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (AC979-1D) Armored Cable (AC979-3D) Integral Cable (AC979-9D)	3 Pin MIL-C-5015 Armor Jacketed Cable Blue TPE 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	C	A10

## Ordering Information •

Standard	AC979-1D (1/4-28 Captive Bolt) Stock Product	AC979-3D / (1/4-28 Captive Bolt) (maximum armor length 100 ft.) (cable length in feet) (termination)  AC979-9D / (1/4-28 Captive Bolt) (maximum armor length 100 ft.) (cable length in feet) (termination)  Bolt) (length in feet) (termination)			
Metric	M/AC979-1D (M6x1 Captive Bolt)	M/AC979-3D / /   M/AC979-9D / (M6x1 Captive Bolt) (maximum armor length 100 ft.) (cable length in feet) (termination) (maximum armor length 100 ft.) (cable length in feet) (termination) (termination) (termination)			

Green = X axis White = Z axis Black = Common



Cable Terminations: L ==

