

# AC919 Series

Premium Low Capacitance, Intrinsically Safe Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



II 1 G D



## Regulatory Information

Ex ia IIC T3/T4  
 CLI Groups A, B, C, D  
 CLII Groups F, G  
 CLIII

CSA 22 UKEX 1408X  
 Ex ia IIC T3/T4 Ga  
 Ex ia I Ma

Sira 15 ATEX 2152X

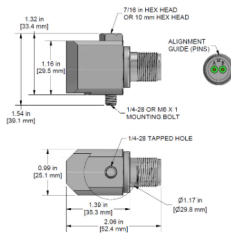
Operating Temperature Code: T4 Ex ia IIC T3/T4 Ga  
 Ambient Temperature Range = Ex ia I Ma  
 -40 to 80°C

Operating Temperature Code: T3 IECEx SIR 15.0060X  
 Ambient Temperature Range = Ex ia IIC T3/T4 Ga  
 -40 to 125°C  
 Ex ia I Ma

Ui = 28 Vdc li = 100 mA  
 CSA 221421

### AC919-1A 2 Pin Connector

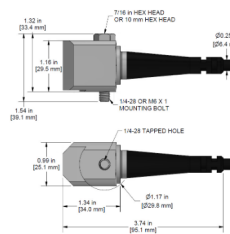
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

### AC919-2A CB193 Integral Cable

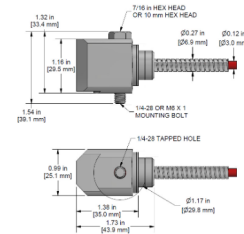
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

### AC919-3A CB296 Armored Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC919	M/AC919	<b>Environmental</b>		
Sensitivity (±5%)		100 mV/g	Operating Temperature Range	-65 to 257 °F	-54 to 125 °C
Frequency Response (±3dB)	30-600,000 CPM	0.5-10,000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-300,000 CPM	1.0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range		± 80 g, peak	Sealing	Welded, Hermetic	
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-28 VDC		<b>Physical</b>		
Constant Current Excitation	2-4 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	2 µg/√Hz		Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz	1.8 µg/√Hz		Case Material	316L Steel	
Output Impedance	<100 ohm		Mounting Thread	1/4-28	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	>10 <sup>8</sup> ohm				