

AC916 Series

Low Capacitance, Intrinsically Safe Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



II 1 G D



IECEx SIR 15.0060X

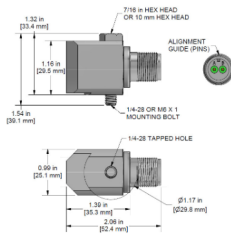


Regulatory Information

Ex ia IIC T3/T4	CSA 22 UKEX 1408X
CLI Groups A, B, C, D	Ex ia IIC T3/T4 Ga
CLII Groups F, G	Ex ia I Ma
CLIII	Sira 15 ATEX 2152X
Operating Temperature Code: T4	Ex ia IIC T3/T4 Ga
Ambient Temperature Range = -40 to 80°C	Ex ia I Ma
Operating Temperature Code: T3	IECEx SIR 15.0060X
Ambient Temperature Range = -40 to 125°C	Ex ia IIC T3/T4 Ga
	Ex ia I Ma
Ui = 28 Vdc li = 100 mA	
CSA 221421	

AC916-1A 2 Pin Connector

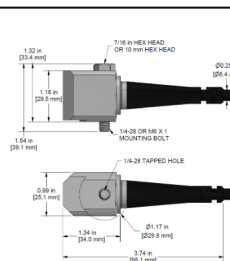
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC916-2C CB193 Integral Cable

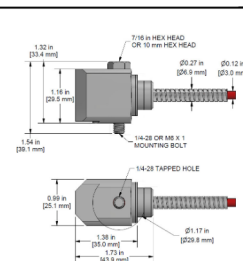
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC916-3C 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	AC916	M/AC916	Environmental		
Sensitivity (±10%)		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
Electrical			Submersible Depth	200 ft.	61 m
Settling Time		<3 Seconds	SIL Rating		SIL 2
Voltage Source (IEPE)		18-28 VDC	Physical		
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 ⁸ ohm			