

# TA916 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe Dual Output Accelerometer, Acceleration and Temperature, Side Exit 3 Pin Connector, 100 mV/g, 10 mV/°C, ±10%



IECEx  
IECEx SIR 15.0060X



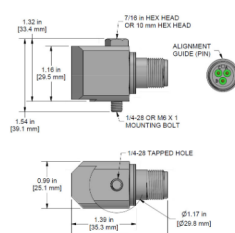
## Regulatory Information

Ex ia IIC T3 Ga	Ui = 28 Vdc li = 112 mA
AEx is IIC T3 Ga	Pi = 1W, Ci = 1.5nF, Li = 0µH
CLI Groups A, B, C, D	CSA 221421
CLII Groups E, F, G; CLIII	
CLI, Zone 0	Sira 15ATEX2152X
	Ex ia IIC T3 Ga
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 80°C	IECEx SIR 15.0060X
Control Drawing INS10012	Ex ia IIC T3 Ga

### TA916-1A

3 Pin Connector

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

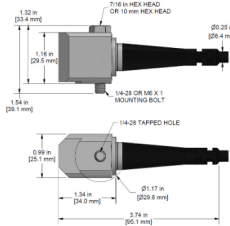


Stock Product

### TA916-2C

CB191 Integral Cable

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

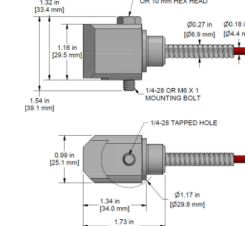


Built To Order

### TA916-3C

CB218 Armored Integral Cable

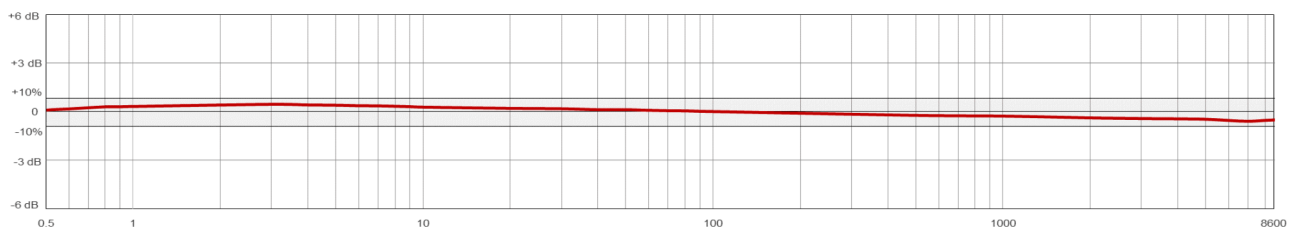
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA916	M/TA916	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-516,000 CPM	0.5-8600 Hz	<b>Physical</b>		
Dynamic Range		± 80 g, peak	Sensing Element		PZT Ceramic
<b>Electrical</b>			Sensing Structure		Shear Mode
Settling Time		<3 Seconds	Weight	5.3 oz	151 grams
Voltage Source (IEPE)		18-28 VDC	Case Material		316L Stainless Steel
Spectral Noise @ 10 Hz		30 µg/√Hz	Mounting		1/4-28
Spectral Noise @ 100 Hz		19 µg/√Hz	Connector (Non-Integral)		3 Pin MIL-C-5015
Spectral Noise @ 1000 Hz		15 µg/√Hz	Resonant Frequency	1,260,000 CPM	21000 Hz
Output Impedance		<100 ohm	Mounting Torque	2 to 5 ft. lbs	2.7 to 6.8 Nm
Bias Output Voltage		10-14 VDC	Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation		>10 <sup>9</sup> ohm	Calibration Certificate		CA10

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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