

# TA911 Series



VIBRATION ANALYSIS HARDWARE

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



IECEx  
IECEx SIR 15.0060X



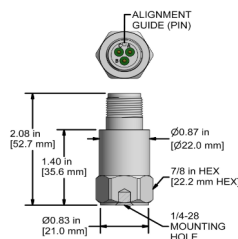
## Regulatory Information

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	Sira 15ATEX2152X
CLI, Zone 0	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

### TA911-1A

3 Pin Connector

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

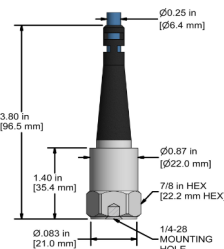


Stock Product

### TA911-2C

CB191 Integral Cable

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

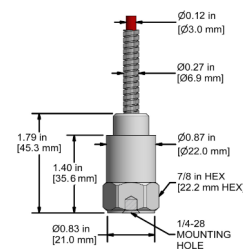


Built To Order

### TA911-3C

CB218 Armored Integral Cable

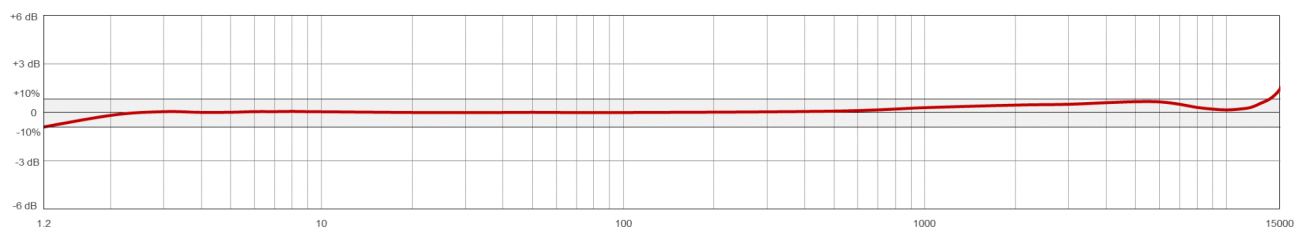
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA911	M/TA911	<b>Environmental</b>		
Sensitivity (±10%)		10 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	72-900,000 CPM	1,2-15,000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	150-360,000 CPM	2,5-6,000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 800 g, peak	Sealing		Welded, Hermetic
Temperature Measurement Range	38 to 250°F	3 to 121°C	<b>Physical</b>		
Temperature Output		10 mV/°C	Sensing Element		PZT Ceramic
<b>Electrical</b>			Sensing Structure		Shear Mode
Settling Time		< 2 seconds	Weight	3.2 oz	90 grams
Voltage Source (IEPE)		18-28 VDC	Case Material		316L Stainless Steel
Constant Current Excitation		2-10 mA	Mounting		1/4-28
Spectral Noise @ 10 Hz		30 μg/√Hz	Connector (Non-Integral)		3 Pin MIL-C-5015
Spectral Noise @ 100 Hz		19 μg/√Hz	Resonant Frequency	1,380,000 CPM	23,000 Hz
Spectral Noise @ 1000 Hz		15 μg/√Hz	Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 Nm
Output Impedance		<100 ohm	Mounting Hardware	1/4-28 stud	M6x1 Adapter Stud
Bias Output Voltage		10-14 VDC	Calibration Certificate		CA10
Case Isolation		>10 <sup>8</sup> ohm			

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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