

# TA217 Series

Dual Output Sensor, Temperature & Acceleration, Top Exit 3 Pin Connector, 50 mV/g, 10 mV/°C, ±10%



VIBRATION ANALYSIS HARDWARE



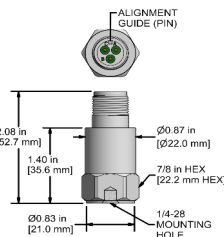
## Product Features

- Temperature Output 10 mV/°C
- High Performance in a Low Cost Sensor
- ▶ Standard 3 Pin MIL Connection
- ▶ Temperature and Acceleration in One Sensor
- ▶ Requires Multi-Conductor Cable

### TA217-1A

3 Pin Connector

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

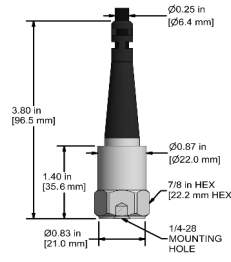


Stock Product

### TA217-2A

CB105 Integral Cable

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

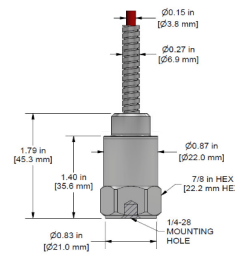


Built To Order

### TA217-3A

CB218 Armored Integral Cable

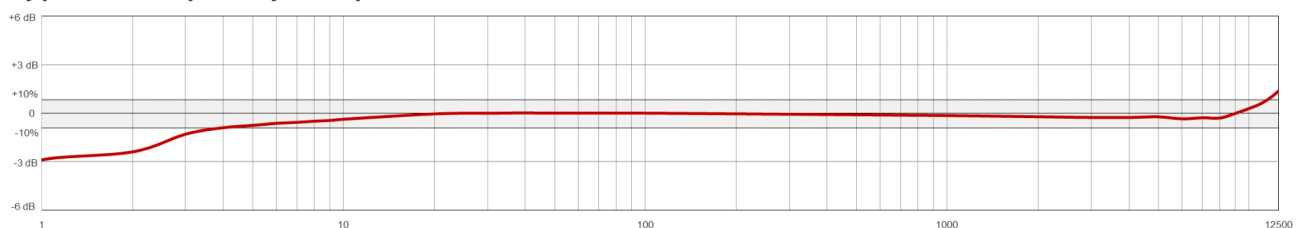
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA217	M/TA217	<b>Environmental</b>		
Sensitivity (±10%)		50 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	60-750,000 CPM	1,0-12500 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	240-540,000 CPM	4,0-9000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 100 g, peak	Sealing		IP68
Temperature Measurement Range	-40 to 250°F	-40 to 121°C	<b>Physical</b>		
Temperature Output		10 mV/°C	Sensing Element		PZT Ceramic
Temperature Sensor		750 mV = 25 °C (±1)	Sensing Structure		Shear Mode
<b>Electrical</b>			Weight	3.2 oz	90 grams
Settling Time		<2.5 seconds	Case Material		316L Stainless Steel
Voltage Source (IEPE)		18-30 VDC	Mounting		1/4-28
Constant Current Excitation		2-10 mA	Connector (Non-Integral)		3 Pin MIL-C-5015
Spectral Noise @ 10 Hz		14 µg/√Hz	Resonant Frequency	1,380,000 CPM	23000 Hz
Spectral Noise @ 100 Hz		2.3 µg/√Hz	Mounting Torque		2 to 5 ft. lbs. / 2,7 to 6,8 Nm
Spectral Noise @ 1000 Hz		2 µg/√Hz	Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Output Impedance		<100 ohm	Calibration Certificate		CA10
Bias Output Voltage		10-14 VDC			
Case Isolation		>10 <sup>8</sup> ohm			

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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