

# TA218 Series

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



VIBRATION ANALYSIS HARDWARE



## Product Features

High Performance in a Low Cost Sensor

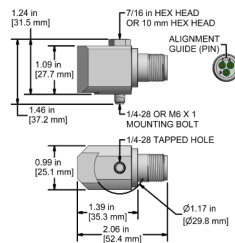
Helps to Detect Bearing Defects and Temperature Changes

- ▶ Temperature (10 mV/°C) and Acceleration (50 mV/g) Outputs in One Sensor via a Standard 3 Pin MIL Connection
- ▶ Popularly sold with SC300 Series Signal Conditioners with built-in Temperature Output

### TA218-1A

3 Pin Connector

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

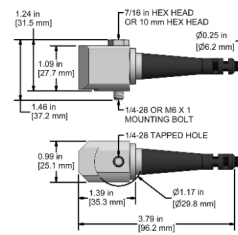


Stock Product

### TA218-2A

CB105 Integral Cable

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

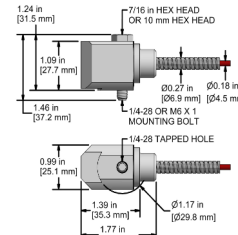


Built To Order

### TA218-3A

CB218 Armored Integral Cable

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



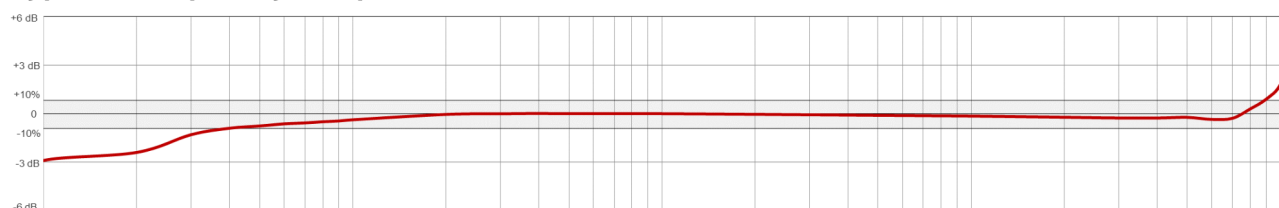
Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA218	M/TA218	<b>Environmental</b>		
Sensitivity (±10%)	50 mV/g		Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	60-600,000 CPM	1,0-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	240-360,000 CPM	4,0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 100 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	IP68	
Temperature Measurement Range	-40 to 250°F	-40 to 121°C	Submersible Depth	200 ft	60 m
Temperature Output	10 mV/°C		<b>Physical</b>		
Temperature Sensor	750 mV = 25 °C (±1)				

#### Electrical

Settling Time	5 seconds
Voltage Source (IEPE)	18-30 VDC
Constant Current Excitation	2-10 mA
Spectral Noise @ 10 Hz	14 µg/√Hz
Spectral Noise @ 100 Hz	2.3 µg/√Hz
Spectral Noise @ 1000 Hz	2 µg/√Hz
Output Impedance	<100 ohm
Bias Output Voltage	10-14 VDC
Case Isolation	>10 <sup>8</sup> ohm

#### Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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