

TA231 Series

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

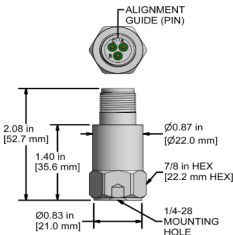


Product Features

- High Performance in a Low Cost Sensor
- Helps to Detect Bearing Defects and Temperature Changes
- ▶ Temperature (10 mV/°C) and Acceleration (10 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

TA231-1A
3 Pin Connector

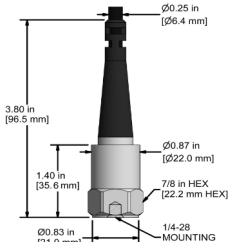
Connector	Polarity
Pin	
A	(+) Signal/Power
B	(-) Common
C	(+) Temperature Voltage



Stock Product

TA231-2A
CB105 Integral Cable

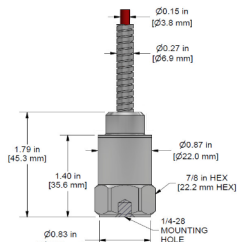
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

TA231-3A
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	TA231	M/ or M8/TA2	Environmental		
Sensitivity (±10%)	10 mV/g		Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	60-900,000 CPM	1,0-1500 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	120-360,000 CPM	2,0-600 Hz	Electromagnetic Sensitivity		CE
Dynamic Range	± 500 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		SIL Rating		SIL 2
Temperature Sensor	750 mV = 25 °C (±1)		Physical		
Settling Time	<2.5 seconds		Sensing Element		PZT Ceramic
Voltage Source (IEPE)	18-30 VDC		Sensing Structure		Shear Mode
Constant Current Excitation	2-10 mA		Weight	3.2 oz	90 grams
	14 µA/		Case Material		316L Stainless Steel
			Mounting Thread		1/4-28 Blind Tapped Hole
			Connector (Non-Integral)		3 Pin MIL-C-5015