

TA203-M12A Series

Premium Dual Output Sensor, Temperature & Acceleration, Side Exit 4 Pin M12 Connector, 100 mV/g, 10 mV/°C, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

Premium, High-Performance Sensor

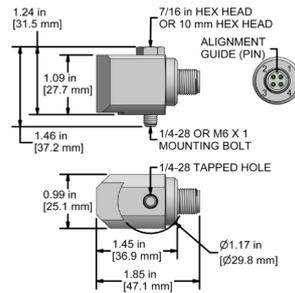
Helps to Detect Bearing Defects and Temperature Changes

- ▶ Temperature (10 mV/°C) and Acceleration (100 mV/g) Outputs in One Sensor via a 4 Pin M12 Connection
- ▶ Popularly Sold with SC300 Series Signal Conditioners with Built-In Temperature Output

TA203-M12A

4 Pin Connector

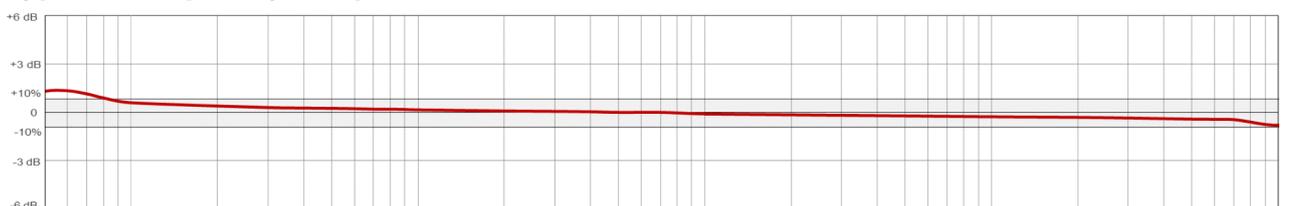
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	(+) Temperature Voltage



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA203-M12A		Environmental		
Sensitivity (±5%)		100 mV/g	Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	30-600,000 CPM	0,5-10000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	120-300,000 CPM	2,0-5000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80 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	Physical		
Temperature Sensor		750 mV = 25 °C (±1)	Sensing Element		PZT Ceramic
Electrical			Sensing Structure		Shear Mode
Settling Time		5 seconds	Weight	5.6 oz	160 grams
Voltage Source (IEPE)		18-30 VDC	Case Material		316L Stainless Steel
Constant Current Excitation		2-10 mA	Connector (Non-Integral)		4 Pin M12
Spectral Noise @ 10 Hz		14 µg/√Hz	Resonant Frequency	1,260,000 CPM	21000 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 Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation		>10 ⁸ ohm	Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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