

TA284-M12A Series



VIBRATION ANALYSIS HARDWARE

Dual Output Sensor, Temperature & Acceleration, M8x1.25 Captive Bolt, Side Exit 4 Pin M12 Connector, 100 mV/g, 10 mV/°C, ±10%



Product Features

High Performance in a Low Cost Sensor

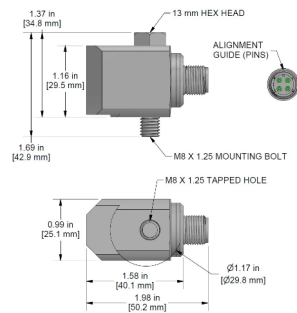
Helps to Detect Bearing Defects and Temperature Changes

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

TA284-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	TA284-M12A		Environmental		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	120-600,000 CPM	2,0-10000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range	± 50 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		
Electrical			Sensing Element		PZT Ceramic
Settling Time	<2.5 seconds		Sensing Structure		Shear Mode
Voltage Source (IEPE)	18-30 VDC		Weight	6.3 oz	180 grams
Constant Current Excitation	2-10 mA		Case Material		316L Stainless Steel
Spectral Noise @ 10 Hz	14 µg/√Hz		Connector (Non-Integral)		4 Pin M12
Spectral Noise @ 100 Hz	2.3 µg/√Hz		Resonant Frequency	1,380,000 CPM	23000 Hz
Spectral Noise @ 1000 Hz	2 µg/√Hz		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Output Impedance	<100 ohm		Mounting Hardware Supplied		M8 Captive Bolt
Bias Output Voltage	10-14 VDC		Calibration Certificate		CA10
Case Isolation	>10 ⁸ ohm				

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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