

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

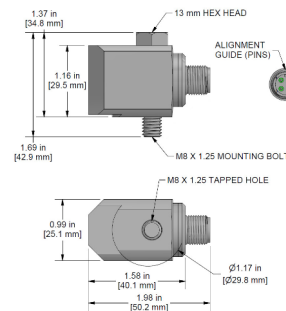
High Performance in a Low Cost Sensor

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	0.5-15 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-600,000 CPM	2.0-10 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		
Settling Time	<2.5 seconds		Sensing Element	PZT	
	18-30		Sensing Structure	Shear Mode	
			Weight	6.3 oz	180 grams
			Case Material	316L Stainless Steel	
			Connector (Non-Integral)	4 Pin M12	
Electrical			Resonant Frequency	1,380,000 CPM	23000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm