

TA312-M12A

Dual Output, Temperature/Acceleration, Top Exit M12 Connector, Low Power, 25 mV/g, 10 mV/°C

SECTION 1 - VIBRATION SENSORS
Dual Output Accelerometers

Actual Product Size Shown



Product Features

Ultra Low Power Sensor For Battery Powered Transmission Systems

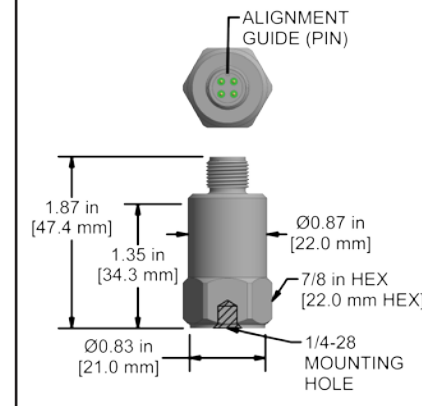
Temperature Output

- 4 Pin M12 Connector
- Supply Voltage 3-5 Volts
- Compatible with Many Wireless Transmission Systems

TA312-M12A

4 Pin Connector

Connector Pin	Polarity
1	(+) Power
2	(-) Common
3	(+) Signal
4	(+) Temperature



Specifications	Standard	Metric
Part Number	TA312-M12	M/TA312-M12
Sensitivity (±10%)		25 mV/g
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz
Frequency Response (±10%)	60-720,000 CPM	1,0-12000 Hz
Dynamic Range		± 50 g, peak
Temperature Measurement Range	37° to 250°F	3° to 121° C
Temperature Output		10 mV/°C
Electrical		
Settling Time		<1.0 second
Power Supply Voltage		3-5 VDC (10%)
Spectral Noise @ 10 Hz		60 µg/√Hz
Spectral Noise @ 100 Hz		20 µg/√Hz
Spectral Noise @ 1000 Hz		5 µg/√Hz
Output Impedance		<100 ohm
Bias Output Voltage		1.5 V ± 10%
Case Isolation		>10 ⁸ ohm
Supply Current		< 100 µA

Specifications	Standard	Metric
Environmental		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection		5,000 g, peak
Sealing		Welded, Hermetic
Physical		
Sensing Element		PZT Ceramic
Sensing Structure		Shear Mode
Weight	3.2 oz	90 grams
Case Material		316L Stainless Steel
Mounting		1/4-28
Connector (non-integral)		3 Pin MIL-C-5015
Resonant Frequency	1,860,000 CPM	31000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Calibration Certificate		CA10

Ordering Information

Standard	TA312-M12A (1/4-28 Stud)
Metric	M/TA312-M12A (M6x1 Adapter Stud)

Backed by our Unconditional Lifetime Warranty

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