

TA314-M12A

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

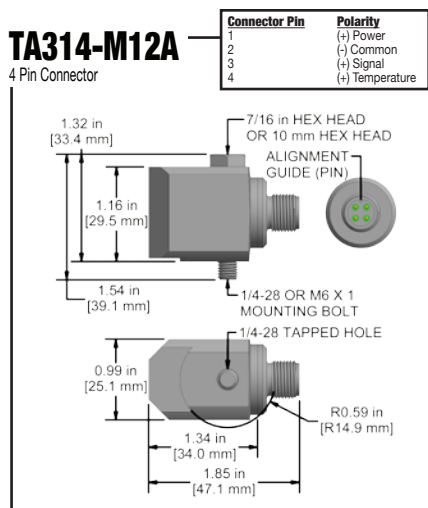
Actual Product Size Shown
CE



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



Specifications	Standard	Metric
Part Number	TA314-M12	M/TA314-M12
Sensitivity ($\pm 10\%$)		25 mV/g
Frequency Response ($\pm 3\text{dB}$)	30-60,000 CPM	0.5-10000 Hz
Frequency Response ($\pm 10\%$)	60-480,000 CPM	1.0-8000 Hz
Dynamic Range		± 50 g, peak
Temperature Measurement Range	-40° to 250°F	-40° 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 $\mu\text{g}/\text{Hz}$
Spectral Noise @ 100 Hz		20 $\mu\text{g}/\text{Hz}$
Spectral Noise @ 1000 Hz		5 $\mu\text{g}/\text{Hz}$
Output Impedance		<100 ohm
Bias Output Voltage		1.5 V $\pm 10\%$
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	5.1 oz	145 grams
Case Material		316L Stainless Steel
Mounting		1/4-28
Connector (non-integral)		3 Pin MIL-C-5015
Resonant Frequency	1,260,000 CPM	21000 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	TA314-M12A (1/4-28 Stud)
Metric	M/TA314-M12A (M6x1 Adapter Stud)



VIBRATION ANALYSIS HARDWARE

Backed by our Unconditional Lifetime Warranty