

TR102-M12A Series

RTD Sensor, Top Exit 4 Pin M12 Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

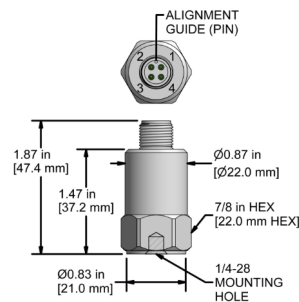
For use with CTC M4TR Connector & CB123 cabling

- ▶ Base Mounted PT100 RTD Temperature Sensor
- ▶ Temperature and Acceleration in One Sensor
- ▶ 4 Pin M12 Connection

TR102-M12A

4 Pin Connector

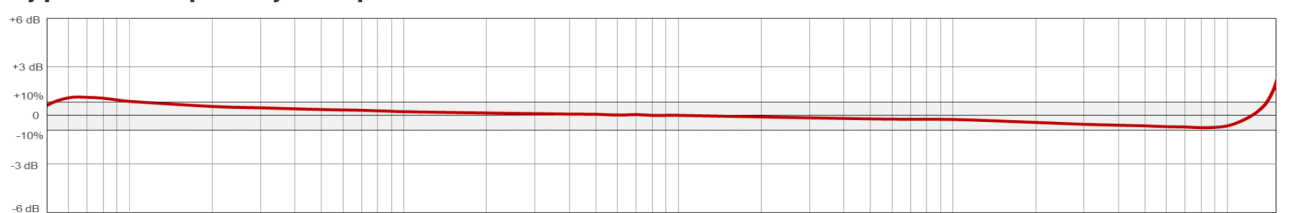
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	RTD (+)
4	RTD (-)



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TR102-M12A	M/ or M8/TR102-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 Hz-15 kHz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-600,000 CPM	2 Hz-10 kHz	Electromagnetic Sensitivity	CE Pending	
Dynamic Range	± 50g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Temperature Measurement Range	-40 to 250 °F	-40 to 121 °C	Physical		
Temperature Sensor	PT100 RTD		Sensing Element	PZT Ceramic	
Electrical			Sensing Structure	Shear Mode	
Settling Time	< 2.5 Seconds		Weight	3.2 oz	90 grams
Voltage Source (IEPE)	18-30 VDC		Case Material	316L Stainless Steel	
Constant Current Excitation	2-10 mA		Mounting Thread	1/4-28 Blind Tapped Hole	
Spectral Noise @ 10 Hz	8 µg/√Hz		Connector (Non-Integral)	4 Pin M12	
Spectral Noise @ 100 Hz	0.82 µg/√Hz		Resonant Frequency	1,380,000 CPM	23 kHz
Spectral Noise @ 1000 Hz	0.3 µg/√Hz		Mounting Torque	2 to 5 ft-lbs.	2,7 to 6,8 Nm
Output Impedance	< 100 ohm		Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
Bias Output Voltage	10-14 VDC		Calibration Certificate	CA10	
Case Isolation	> 10 ⁹ ohm				

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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