

TR134-M12A Series

RTD Sensor, Side Exit 4 Pin M12 Connector, 500 mV/g, $\pm 10\%$



VIBRATION ANALYSIS HARDWARE



Product Features

PT100 RTD Temperature Sensor with Acceleration Output

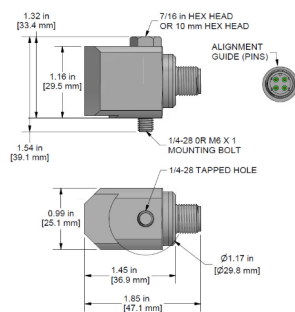
View [2 Wire vs. 4 Wire RTD Systems Explained](#)

- ▶ Compatible with CTC M4TR4 (Polycarbonate), M4RTR4 (PPS) and MV4R4 (Viton Boot) Connectors for 4 Wire RTD Systems
- ▶ Compatible with CTC M4TR2 (Polycarbonate), M4RTR2 (PPS), and MV4R2 (Viton Boot) Connectors for 2 Wire RTD Systems
- ▶ CTC recommends 4-wire RTD systems for highest temperature measurement accuracy, where supported by the measurement system

TR134-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	TR134-M12A	M/TR134-M12A	<u>Environmental</u>		
Sensitivity ($\pm 10\%$)	500 mV/g		Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	6-600,000 CPM	0.1 Hz-10 kHz	Maximum Shock Protection	5,000 g. peak	
Frequency Response ($\pm 10\%$)	30-120,000 CPM	0.6 Hz-3 kHz	Electromagnetic Sensitivity	CE Pending	
Dynamic Range	± 16 g. peak *Vsource $\geq 22\text{V}$, 12Vbias		Sealing	Welded, Hermetic	
Temperature Measurement Range	-40 to 250 °F	-40 to 121 °C	<u>Physical</u>		
Temperature Sensor	PT100 RTD		Sensing Element	PZT Ceramic	
Transverse Sensitivity	$\leq 5\%$		Sensing Structure	Shear Mode	
<u>Electrical</u>			Weight	3.2 oz	90 grams
Settling Time	< 2 Seconds		Case Material	316L Stainless Steel	
Voltage Source	18-30 VDC		Mounting Thread	1/4-28 UNF	
Constant Current Excitation	2-10 mA		Connector (Non-Integral)	4 Pin M12	
Spectral Noise @ 10 Hz	1.7 $\mu\text{g}/\sqrt{\text{Hz}}$		Resonant Frequency	1,380,000 CPM	23 kHz
Spectral Noise @ 100 Hz	0.2 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting Torque	2 to 5 ft-lbs.	2.7 to 6.8 Nm
Spectral Noise @ 1000 Hz	0.12 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Output Impedance	< 100 ohm		Calibration Certificate	CA10	
Bias Output Voltage	10-14 VDC				
Case Isolation	> 10^8 ohm				

Typical Frequency Response

