

# TA102-M12

Dual Output, Temperature/Acceleration, Top Exit M12 Connector/Cable,  
100 mV/g, 10 mV/°C

Actual Product Size Shown  
**CE**

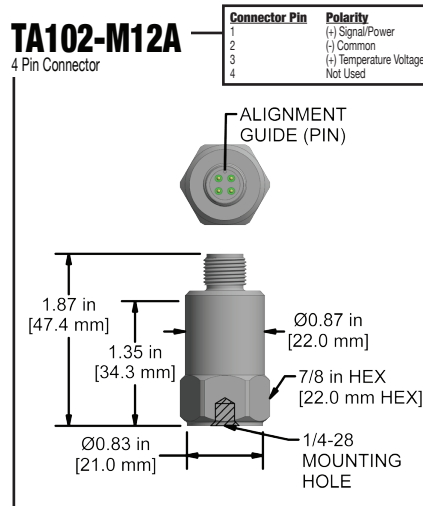


Requires **Multi-Conductor Cable**

## Product Features

**Temperature Output 10 mV/°C**  
High Performance in a Low Cost Sensor

- 4 Pin M12 Connection
- Temperature and Acceleration in One Sensor
- Compatible with All Major Vibration Data Collection Systems Except Commtest vbOnline™ and GE SCOUT Series Online Systems



Specifications	Standard	Metric
Part Number	TA102-M12A	M/TA102-M12A
<b>Vibration</b>		
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz
Frequency Response (±10%)	120-720,000 CPM	2,0-12000 Hz
Dynamic Range	± 80 g, peak	
Temperature Measurement Range	37° to 250° F	3° to 121° C
Temperature Output	10 mV/°C	
<b>Electrical</b>		
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	8 µg/√Hz	
Spectral Noise @ 100 Hz	0.82 µg/√Hz	
Spectral Noise @ 1000 Hz	0.3 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 <sup>8</sup> ohm	

Specifications	Standard	Metric
<b>Environmental</b>		
Temperature Range	-40 to 250°F	-40 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
<b>Physical</b>		
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)	4 Pin M12	
Resonant Frequency	1,380,000 CPM	23000 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	TA102-M12A (1/4-28 Stud) 
Metric	M/TA102-M12A (M6x1 Adapter Stud) 

Backed by our **Unconditional Lifetime Warranty**

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