

TA178-M12

Dual Output Temperature/Acceleration, M8 Captive Bolt, Side Exit M12 Connector/Cable, 100 mV/g, 10 mV/K

Actual Product Size Shown
CE



M8 Captive Bolt

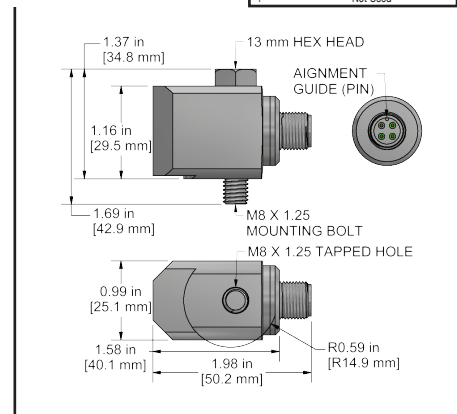
10 mV/K Product Features

Temperature Measurement Range of -40° to 212°F (-40° to 100°C)

- 4 Pin M12 Connection
- Requires Multi-Conductor Cable and Dual IEPE Power
- Compatible with Comtest vbOnline™ Series and Bently Nevada™ SCOUT Series Data Collectors
- Side Exit with M8 Captive Bolt

TA178-M12A 4 Pin Connector

Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	(+) Temperature Voltage
4	Not Used



Specifications	Standard	Metric
Part Number	TA178-M12A	
Vibration		
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	30-600,000 CPM	0.5-10000 Hz
Frequency Response (±10%)	120-300,000 CPM	2.0-5000 Hz
Dynamic Range	± 50 g, peak	
Temperature Measurement Range	-40° to 212° F	-40° to 100° C
Temperature Output	10 mV/K	
Electrical		
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	14 µg/√Hz	
Spectral Noise @ 100 Hz	2.3 µg/√Hz	
Spectral Noise @ 1000 Hz	2 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-40 to 250°F	-40 to 121°C
Maximum Shock Protection	5,000 g, peak	
Sealing	Welded, Hermetic	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	6.3 oz	180 grams
Case Material	316L Stainless Steel	
Mounting	M8x1.25	
Connector (non-integral)	4 Pin M12	
Resonant Frequency	1,200,000 CPM	20000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware	M8 Captive Bolt	
Calibration Certificate	CA10	

Ordering Information

Metric	TA178-M12A (M8x1.25 Captive Bolt)
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