

TA172 Series

Dual Output Temperature/Acceleration, Top Exit Connector/Cable, 100 mV/g, 10 mV/K



Actual Product Size Shown

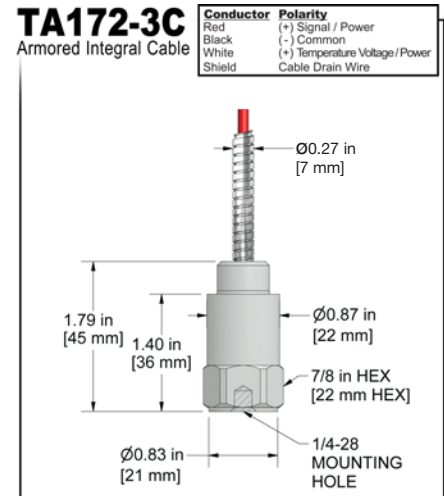
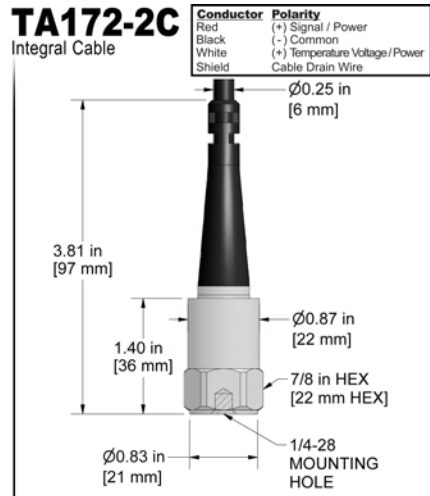
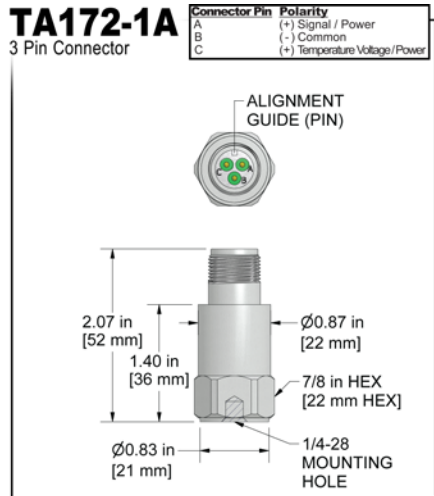


10 mV/K

Product Features

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

- Standard 3 Pin MIL Connection
- Requires Multi-Conductor Cable and Dual IEPE Power
- Compatible with Comtest vbOnline™ Series and Bently Nevada™ SCOUT Series Data Collectors



Specifications	Standard	Metric
Part Number	TA172	M/TA172
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz
Frequency Response (±10%)	120-600,000 CPM	2.0-10000 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 ⁹ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-40 to 250°F	-40 to 121°C
Maximum Shock Protection	5,000 g, peak	
Sealing	IP68	
Submersible Depth (TA172-2C/3C)	200 ft.	60 m
Physical		
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)	3 Pin MIL-C-5015	
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	TA172-1A (1/4-28 Stud)	TA172-2C - / (1/4-28 Stud)	TA172-3C - / (1/4-28 Stud)
	Stock Product	Build To Order	Build To Order
	(length in feet) (termination)	(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/TA172-1A (M6x1 Adapter Stud)	M/AC102-2C - / (M6x1 Adapter Stud)	M/TA172-3C - / (M6x1 Adapter Stud)
	Stock Product	Build To Order	Build To Order
	(length in meters) (termination)	(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)

Cable Termination Options: L Z



VIBRATION ANALYSIS HARDWARE

Backed by our Unconditional Lifetime Warranty

TA174 Series

Dual Output, Temperature/Acceleration, Side Exit Connector/Cable, 100 mV/g, 10 mV/K

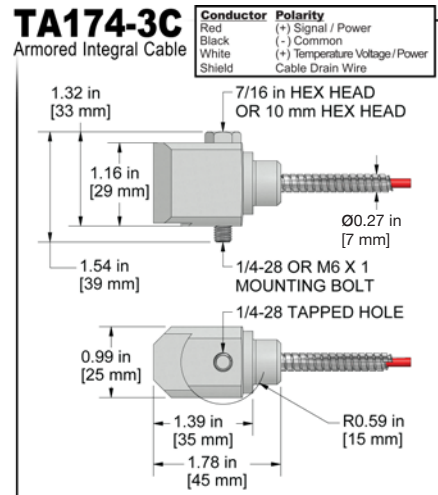
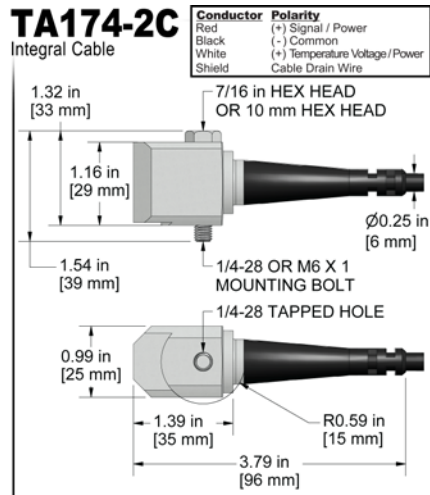
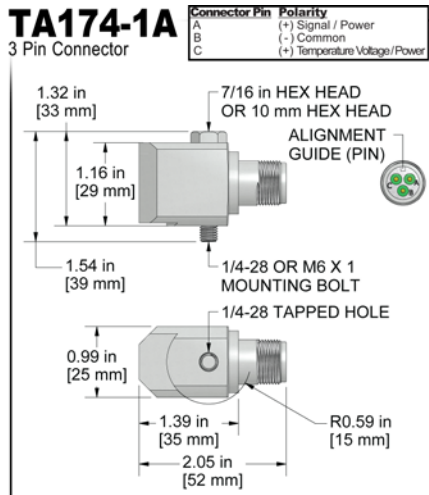
Actual Product Size Shown



10 mV/K Product Features

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

- Standard 3 Pin MIL Connection
- Requires Multi-Conductor Cable and Dual IEPE Power
- Compatible with Comtest vbOnline™ Series and Bently Nevada™ SCOUT Series Data Collectors



Specifications	Standard	Metric
Part Number	TA174	M/TA174
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	
Electromagnetic Sensitivity	n/a	
Sealing	IP68	
Submersible Depth (TA174-2C/3C)	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	5.6 oz	160 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	3 Pin MIL-C-5015	
Resonant Frequency	1,320,000 CPM	22000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Calibration Certificate	CA10	

Ordering Information

Standard	TA174-1A	TA174-2C - /	TA174-3C - /
	(1/4-28 Captive Bolt) Stock Product	(1/4-28 Captive Bolt) Build To Order	(1/4-28 Captive Bolt) Build To Order
		(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/TA174-1A	M/TA174-2C - /	M/TA174-3C - /
	(M6x1 Captive Bolt) Stock Product	(M6x1 Captive Bolt) Build To Order	(M6x1 Captive Bolt) Build To Order
		(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)

Cable Termination Options: L Z

Backed by our Unconditional Lifetime Warranty



TA178 Series

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

SECTION 1 - VIBRATION SENSORS
Dual Output Accelerometers

10 mV/K

Product Features

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

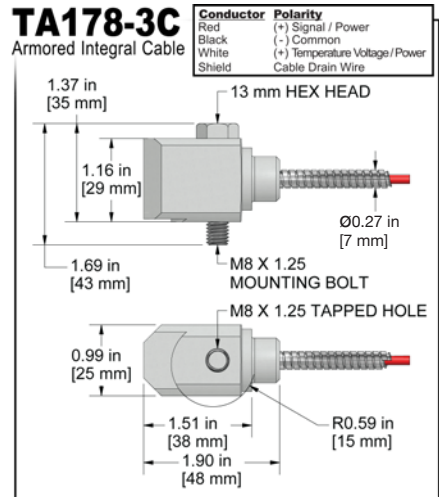
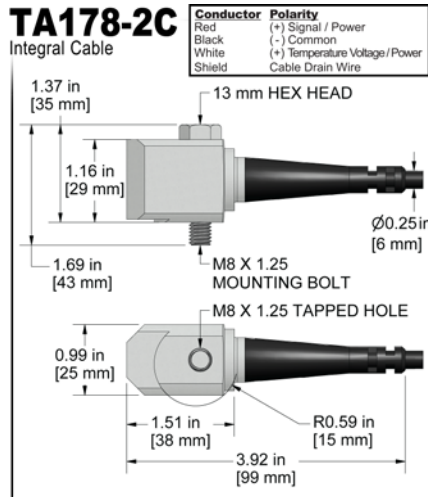
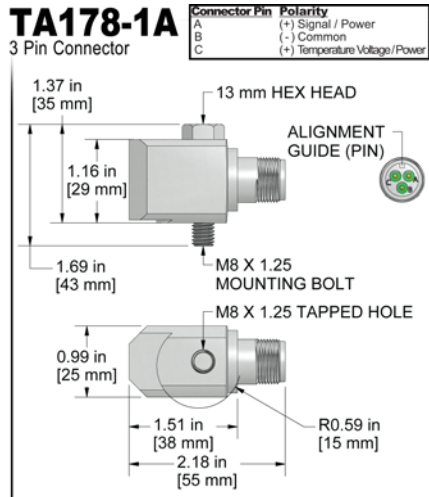


Actual Product Size Shown



M8 Captive Bolt

- Standard 3 Pin MIL Connection
- Requires Multi-Conductor Cable and Dual IEPE Power
- Compatible with Commtest vbOnline™ Series and Bently Nevada™ SCOUT Series Data Collectors
- Side Exit with M8 Captive Bolt



Specifications	Standard	Metric
Part Number	TA178	M/TA178
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	IP68	
Submersible Depth (TA178-2C/3C)	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	6.3 oz	180 grams
Case Material	316L Stainless Steel	
Mounting	M8	
Connector (non-integral)	3 Pin MIL-C-5015	
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

TA178-1A (M8x1 Captive Bolt) **Stack Product**

TA178-2C - / (M8x1 Captive Bolt) **Build To Order**

TA178-3C - / (M8x1 Captive Bolt) **Build To Order**

Diagram showing box notation for ordering: [] [] [] [] - [] (length in feet) (termination)

Diagram showing box notation for ordering: [] [] [] / [] [] [] - [] (maximum armor length 100 ft.) (cable length in feet) (termination)

Cable Termination Options: L Z



VIBRATION ANALYSIS HARDWARE

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TA184 Series

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

SECTION 1 - VIBRATION SENSORS
Dual Output Accelerometers



Actual Product Size Shown



M8 Captive Bolt

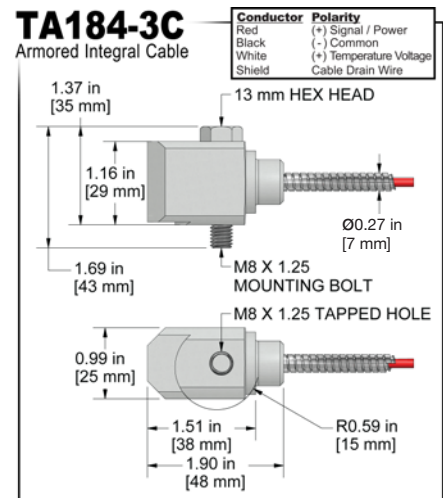
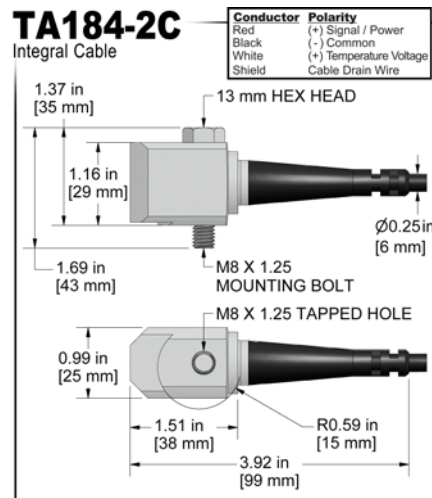
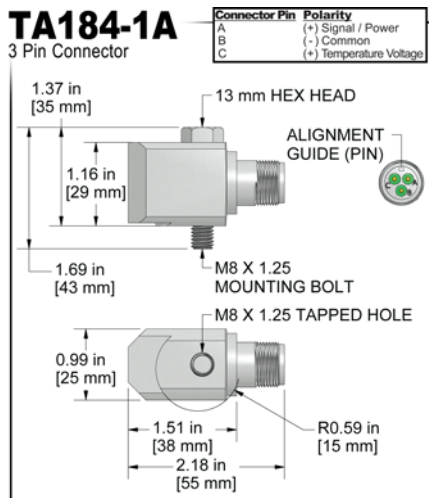
Requires **Multi-Conductor Cable**

Product Features

Temperature/Vibration Sensors

10 mV/°C

- Standard 3 Pin MIL Connection
- High Performance in a Low Cost Sensor
- Requires Multi-Conductor Cable and Dual IEPE Power



Specifications	Standard	Metric
Part Number	TA184	
Sensitivity (±10%)	100 mV/g	
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz
Frequency Response (±10%)	120-600,000 CPM	2.0-10000 Hz
Dynamic Range	± 50 g, peak	
Temperature Measurement Range	37° to 250° F	3° to 121° C
Temperature Output	10 mV/°C	
Electrical		
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	.82 µg/√Hz	
Spectral Noise @ 1000 Hz	.3 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	IP68	
Submersible Depth (TA184-2C/3C)	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	6.3 oz	180 grams
Case Material	316L Stainless Steel	
Mounting	M8	
Connector (non-integral)	3 Pin MIL-C-5015	
Resonant Frequency	1,380,000 CPM	23000 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	TA184-1A (M8x1 Captive Bolt)	TA184-2C - / (M8x1 Captive Bolt)	TA184-3C - / (M8x1 Captive Bolt)
		(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)

Cable Termination Options: L Z

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