

TA135 Series

Dual Output, Temperature/Acceleration, Top Exit Connector/Cable, 500 mV/g, 10 mV/°C



Actual Product Size Shown



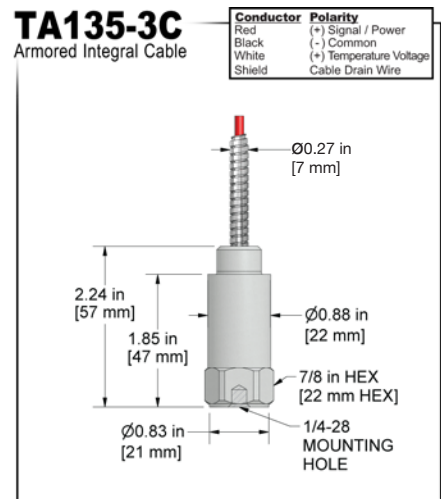
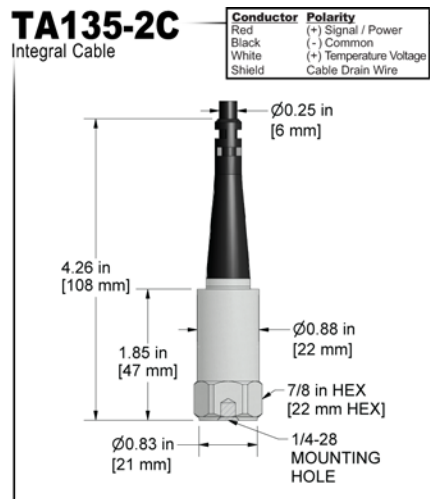
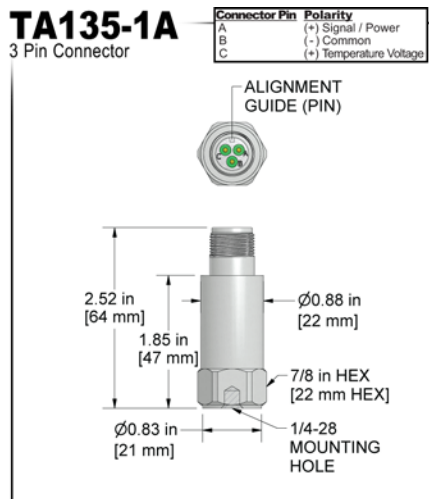
Requires **Multi-Conductor Cable**

Product Features

Temperature Output 10 mV/°C, Acceleration Output 500 mV/g

3 Pin Top Connector

- ± 10 g, Peak Dynamic Range
- 0,2 - 3000 Hz (12 - 180,000 CPM) Frequency Response
- 37 - 250°F (3 - 121°C) Temperature Range



Specifications	Standard	Metric
Part Number	TA135	M/TA135
Sensitivity ($\pm 10\%$)		500 mV/g
Frequency Response (± 3 dB)	12-180,000 CPM	0,2-3000 Hz
Frequency Response ($\pm 10\%$)	36-90,000 CPM	0,6-1500 Hz
Dynamic Range		± 10 g, peak
Temperature Measurement Range	37° to 250° F	3° to 121° C
Temperature Output		10 mV/°C
Electrical		
Settling Time		5 Seconds
Voltage Source		18-30 VDC
Constant Current Excitation		2-10 mA
Spectral Noise @ 10 Hz		1.7 μ g/ \sqrt Hz
Spectral Noise @ 100 Hz		0.2 μ g/ \sqrt Hz
Spectral Noise @ 1000 Hz		0.12 μ g/ \sqrt 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
Electromagnetic Sensitivity		CE
Sealing		Welded, Hermetic
Submersible Depth (TA135-2C/3C)	200 ft.	60 m
Physical		
Sensing Element		PZT Ceramic
Sensing Structure		Shear Mode
Weight	3.5 oz	100 grams
Case Material		316L Stainless Steel
Mounting		1/4-28
Connector (non-integral)		3 Pin MIL-C-5015
Resonant Frequency	960,000 CPM	16000 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	TA135-1A (1/4-28 Stud)	TA135-2C (1/4-28 Stud)	- / [] - [] (length in feet) (termination)	TA135-3C (1/4-28 Stud)	- / [] / [] - [] (maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/TA135-1A (M6x1 Adapter Stud)	M/TA135-2C (M6x1 Adapter Stud)	- / [] - [] (length in feet) (termination) [] M - [] (length in meters) (termination)	M/TA135-3C (M6x1 Adapter Stud)	- / [] / [] - [] (maximum armor length 100 ft.) (cable length in feet) (termination) [] M / [] M - [] (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



Compatible with **Commfest vbOnline™** and other standard systems

Requires **Multi-Conductor Cable**

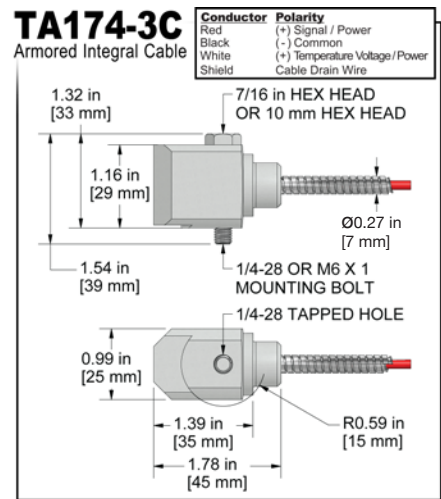
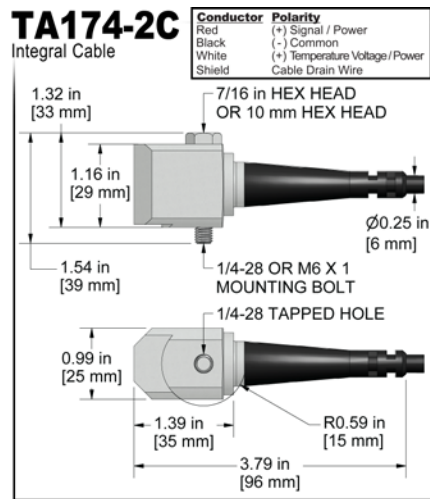
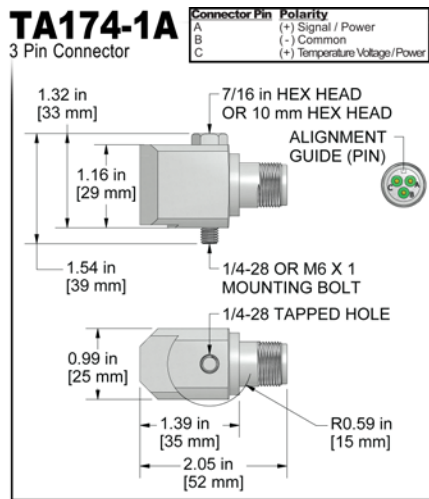
Product Features

VB Series Compatible Dual Output Temperature/Vibration Sensors

10 mV/°K

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

SECTION 1 - VIBRATION SENSORS
Dual Output Accelerometers



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		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		Welded, Hermetic
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 (1/4-28 Captive Bolt)	TA174-2C (1/4-28 Captive Bolt)	- / [] - [] (length in feet) (termination)	TA174-3C (1/4-28 Captive Bolt)	- / [] / [] - [] (maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/TA174-1A (M6x1 Captive Bolt)	M/TA174-2C (M6x1 Captive Bolt)	- / [] - [] (length in feet) (termination)	M/TA174-3C (M6x1 Captive Bolt)	- / [] / [] - [] (maximum armor length 100 ft.) (cable length in feet) (termination)
			[] M - [] (length in meters) (termination)		[] M / [] M - [] (maximum armor length 30 m) (cable length in meters) (termination)

Cable Termination Options: L **Z**



VIBRATION ANALYSIS HARDWARE

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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



Actual Product Size Shown



Compatible with **commtest** vbOnline™ and other standard systems

Requires **Multi-Conductor Cable**

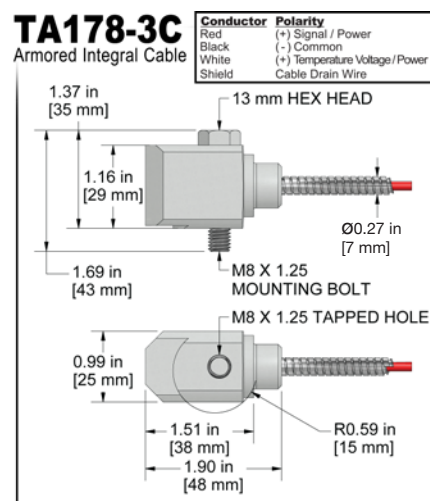
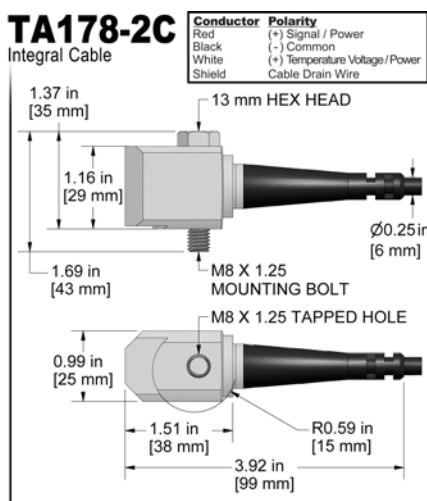
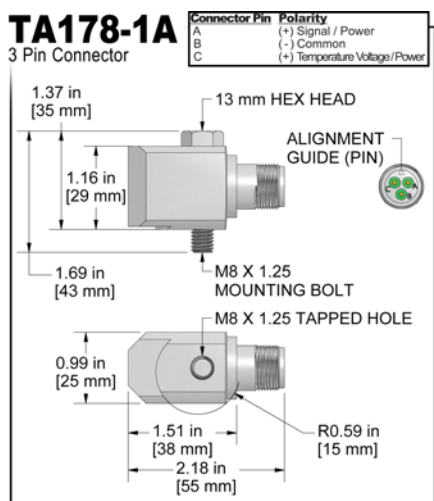
Product Features

VB Series Compatible Dual Output Temperature/Vibration Sensors

10 mV/°K

- Standard 3 Pin MIL Connection
- Side Exit with M8 Captive Bolt
- Requires Multi-Conductor Cable and Dual IEPE Power

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		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
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	M8 Captive Bolt
Calibration Certificate		CA10

Ordering Information

Metric	TA178-1A (M8 Captive Bolt)	TA178-2C (M8 Captive Bolt)	TA178-3C (M8 Captive Bolt)
		- / [] [] [] - [] (length in feet) (termination)	TA178-3C - / [] [] [] / [] [] [] - [] (maximum armor length 100 ft.) (cable length in feet) (termination)
		TA178-2C - / [] [] [] M - [] (length in meters) (termination)	TA178-3C - / [] [] [] M / [] [] [] M - [] (maximum armor length 30 m) (cable length in meters) (termination)

Cable Termination Options: **L** **Z**

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TA131 Series

Dual Output High g Accelerometer, Temperature/Acceleration
Top Exit Connector/Cable, 10 mV/g, 10 mV/°C

SECTION 1 - VIBRATION SENSORS
Dual Output Accelerometers



Actual Product Size Shown

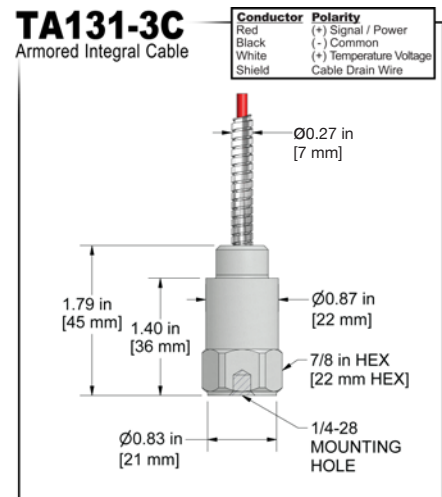
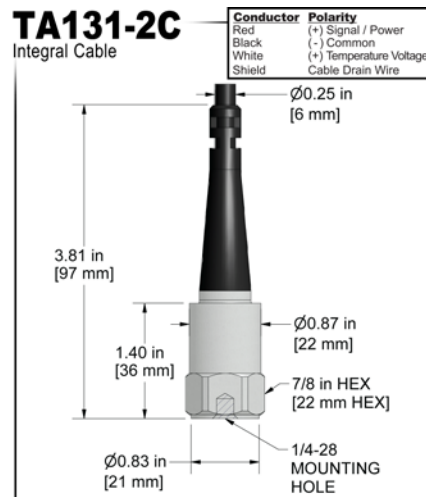
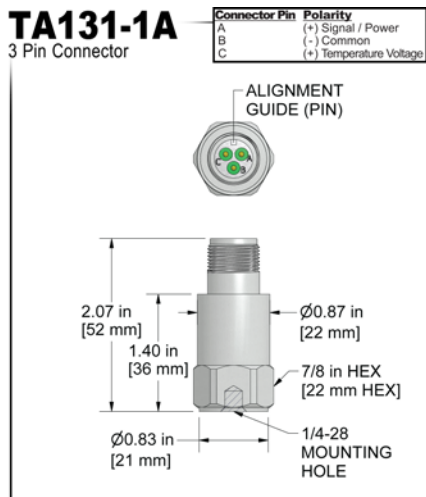


Requires **Multi-Conductor Cable**

Product Features

Temperature Output 10 mV/°C
High Performance at a Reasonable Price

- Standard 3 Pin MIL Connection
- Temperature and Acceleration in One Sensor
- Affordably Priced



Specifications	Standard	Metric
Part Number	TA131	M/TA131
Sensitivity (±10%)	10 mV/g	
Frequency Response (±3dB)	72-900,000 CPM	1,2-15000 Hz
Frequency Response (±10%)	150-360,000 CPM	2,5-6000 Hz
Dynamic Range	± 500 g, peak	
Temperature Measurement Range	37° to 250° F	3° to 121° C
Temperature Output	10 mV/°C	
Electrical		
Settling Time	<2 seconds	
Voltage Source	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	300 µg/√Hz	
Spectral Noise @ 100 Hz	30 µg/√Hz	
Spectral Noise @ 1000 Hz	6 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-32 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Submersible Depth (TA131-2C/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	TA131-1A (1/4-28 Stud)	TA131-2C (1/4-28 Stud)	- / [] - [] (length in feet) (termination)	TA131-3C (1/4-28 Stud)	- / [] / [] - [] (maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/TA131-1A (M6x1 Adapter Stud)	M/TA131-2C (M6x1 Adapter Stud)	- / [] - [] (length in feet) (termination) [] M - [] (length in meters) (termination)	M/TA131-3C (M6x1 Adapter Stud)	- / [] / [] - [] (maximum armor length 100 ft.) (cable length in feet) (termination) [] M / [] M - [] (maximum armor length 30 m) (cable length in meters) (termination)

Cable Termination Options: **L** **Z**

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