

TEDS low profile, general purpose accelerometer

ED-787A



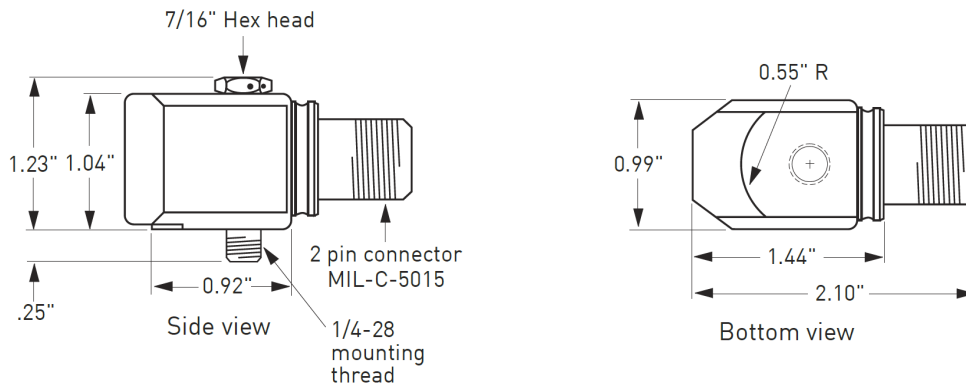
Benefits

- Simplifies troubleshooting
- Reduces safety risks - no more climbing on machines to verify connections
- Reduces costs for set-up and tear-down
- No need to recalibrate replacement units - data acquisition system will recalibrate itself
- Designed to integrate with wireless transmitters and receivers
 - eliminates long cables
 - reduces installation, maintenance and upgrade costs of measurement and control systems

Key features

- Contains transducer electronic data sheet (IEEE 1451 - TEDS)
- Self-identifying
- Corrosion resistant
- Ground isolated
- Hermetically sealed
- ESD protection
- Reverse wiring protection
- Mounts in any orientation

Certifications



Function	Connector pin	Cable conductor color
ground	shell	shield
power/signal	A	white
common	B	black

Note: Due to continuous process improvement, specifications are subject to change without notice.
This document is cleared for public release.

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SPECIFICATIONS

Sensitivity, $\pm 10\%$, 25° C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response	$\pm 10\%$ 1 - 5,000 Hz ± 3 dB 0.7 - 10,000 Hz
Resonance frequency	22 kHz
Transverse sensitivity, max	5% of axial
Temperature response	-50° C -5% +120° C +5%
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv g	
Broadband	2.5 Hz to 25 kHz 700 μ g
Spectral	10 Hz 10 μ g/ \sqrt Hz
	100 Hz 5 μ g/ \sqrt Hz
	1000 Hz 5 μ g/ \sqrt Hz
Output impedance, max	100 Ω
Bias output voltage	12 VDC
Grounding	case isolated, internally shielded
Temperature range¹	-50 to +120° C
Vibration limit	500 g
Shock limit, min	5,000 g
Electromagnetic sensitivity, equiv g, max	70 μ g/gauss
Sealing	hermetic
Base strain sensitivity, max	0.002 g/ μ strain
Sensing element design	PZT ceramic / shear
Weight	150 grams
Case material	316L stainless steel
Mounting	1/4-28 captive hex head screw with 0.046" diameter safety wire hole
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling	J10 / J9T2A

Contact

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Accessories supplied:

- TEDS calibration data
- #80165-01 captive hex head screw

Notes: ¹ Temperature range is limited to -40°C to +85°C when using the IEEE 1451 - TEDS function.

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