

# TEDS premium, PiezoFET® low profile IsoRing accelerometer

## ED-797

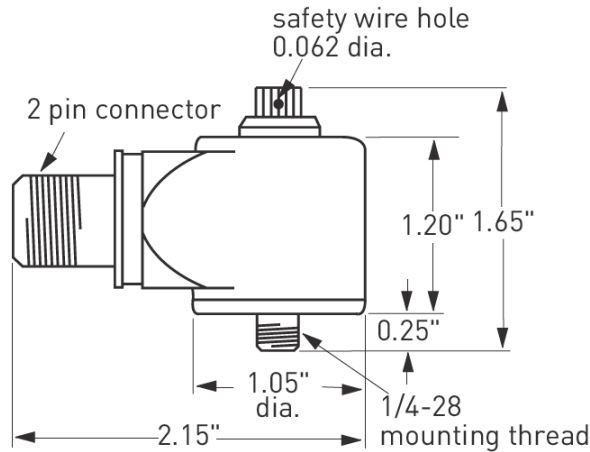


### Benefits

- 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
- Rugged design
- 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

<b>Sensitivity, ±5%, 25° C</b>		100 mV/g
<b>Acceleration range</b>		50 g peak
<b>Amplitude nonlinearity</b>		1%
<b>Frequency response</b>	<b>± 5%</b>	3 - 5,000 Hz
	<b>± 10%</b>	2 - 7,000 Hz
	<b>± 3 dB</b>	1 - 12,000 Hz
<b>Resonance frequency</b>		26 kHz
<b>Transverse sensitivity, max</b>		5% of axial
<b>Temperature response</b>	<b>-50° C</b>	-5%
	<b>+120° C</b>	+5%
<b>Voltage source</b>		18 - 30 VDC
<b>Current regulating diode</b>		2 - 10 mA
<b>Electrical noise, equiv g</b>		
<b>Broadband</b>	<b>2.5 Hz to 25 kHz</b>	600 µg
<b>Spectral</b>	<b>10 Hz</b>	8 µg/√Hz
	<b>100 Hz</b>	5 µg/√Hz
	<b>1000 Hz</b>	5 µg/√Hz
<b>Output impedance, max</b>		100 Ω
<b>Bias output voltage</b>		12 VDC
<b>Grounding</b>		case isolated, internally shielded
<b>Temperature range<sup>1</sup></b>		-50 to +120° C
<b>Vibration limit</b>		500 g peak
<b>Shock limit</b>		5,000 g peak
<b>Electromagnetic sensitivity, equiv. g</b>		30 µg/gauss
<b>Sealing</b>		hermetic
<b>Base strain sensitivity, max</b>		0.002 g/µstrain
<b>Sensing element design</b>		PZT ceramic / shear
<b>Weight</b>		140 grams
<b>Case material</b>		316L stainless steel
<b>Mounting</b>		1/4-28 captive socket head screw
<b>Output connector</b>		2 pin, MIL-C-5015 style
<b>Mating connector</b>		R6 type
<b>Recommended cabling</b>		J10 / J9T2A

## Contact

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## Accessories supplied:

- TEDS calibration data
- #12105-01 captive socket head (metric studs available upon request)

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

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