

# TEDS general purpose accelerometer

## ED-797

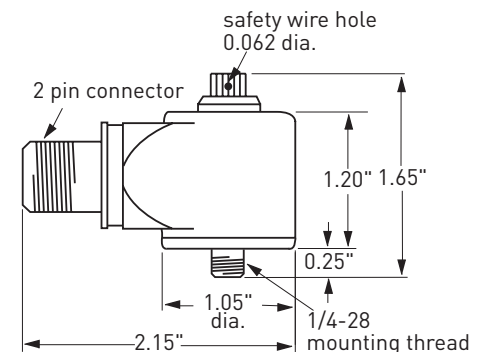
### SPECIFICATIONS

<b>Sensitivity, <math>\pm 5\%</math>, 25°C</b>		100 mV/g
<b>Acceleration range</b>		50 g peak
<b>Amplitude nonlinearity</b>		1%
<b>Frequency response:</b>	$\pm 5\%$	3 - 5,000 Hz
	$\pm 10\%$	2 - 7,000 Hz
	$\pm 3$ dB	1 - 12,000 Hz
<b>Resonance frequency</b>		26 kHz
<b>Transverse sensitivity, max</b>		5% of axial
<b>Temperature response:</b>	-50°C	-5%
	+120°C	+5%
<b>Power requirement:</b>		
Voltage source		18 - 30 VDC
Current regulating diode		2 - 10 mA
<b>Electrical noise, equiv. g:</b>		
Broadband	2.5 Hz to 25 kHz	600 $\mu$ g
Spectral	10 Hz	8 $\mu$ g/ $\sqrt$ Hz
	100 Hz	5 $\mu$ g/ $\sqrt$ Hz
	1,000 Hz	5 $\mu$ g/ $\sqrt$ Hz
<b>Output impedance, max</b>		100 $\Omega$
<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 $\mu$ g/gauss
<b>Sealing</b>		hermetic
<b>Base strain sensitivity</b>		0.002 g/ $\mu$ strain
<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



### Key features

- Contains transducer electronic data sheet (IEEE 1451 - TEDS)
- Simplifies troubleshooting, reducing safety risks and cost
- Self-identifying
- Designed to integrate with wireless transmitters & receivers
- Manufactured in ISO 9001 facility



**Notes:** <sup>1</sup> Temperature range is limited to -40°C to +85°C when using the IEEE 1451 - TEDS function.  
**Accessories supplied:** #12105-01 captive socket head; TEDS calibration data



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

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