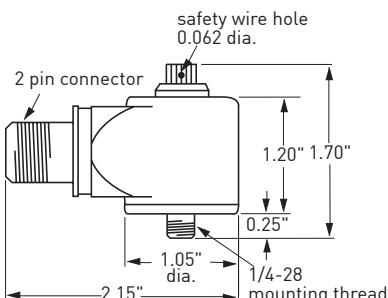




Features

- Contains transducer electronic data sheet (IEEE 1451 - TEDS)
- Self-identifying
- Rugged design
- Corrosion resistant
- Hermetic seal
- Ground isolated
- ESD protection
- Reverse wiring protection
- Mounting in any orientation



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

Model ED-797 TEDS premium, PiezoFET®, low profile IsoRing accelerometer

Dynamic

Sensitivity, ±5%, 25°C.....	100 mV/g
Acceleration range	50 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
±5%.....	3 - 5,000 Hz
±10%.....	2 - 7,000 Hz
±3 dB	1 - 12,000 Hz
Resonance frequency	26 kHz
Transverse sensitivity, max.....	5 % of axial
Temperature response:	
-50°C.....	-5%
+120°C.....	+5%

Electrical

Power requirement: voltage source.....	18 - 30 VDC
current regulating diode	2 - 10 mA
Electrical Noise, equiv. g:	
Broadband	600 µg
Spectral	8 µg/VHz
10 Hz.....	5 µg/VHz
100 Hz.....	5 µg/VHz
1000 Hz.....	100 Ω
Output impedance, max.....	12 VDC
Bias output voltage.....	case isolated, internally shielded
Grounding.....	

Environmental

Temperature range ¹	-50 to 120°C
Vibration limit.....	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g	30 µg/gauss
Sealing	hermetic
Base strain sensitivity	0.002 g/µstrain

Physical

Sensing element design	PZT ceramic / shear
Weight	140 grams
Case material	316L stainless steel
Mounting	1/4-28 captive socket head screw
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling.....	J10 / J9T2A

Connector pin	Function	Cable conductor color
Shell	ground	Shield
A	power/ signal	White
B	common	Black

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

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

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