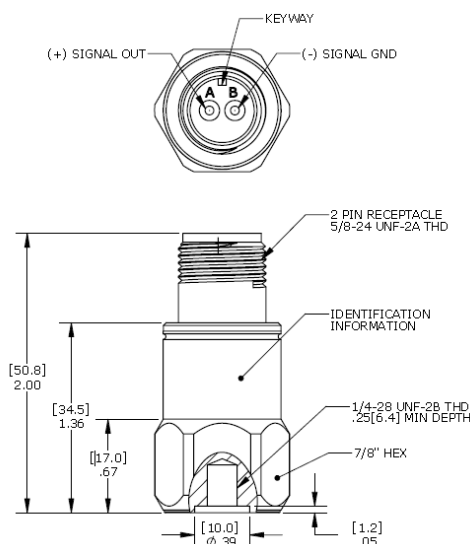


General application accelerometer



Features

- Rugged design
- Corrosion resistant
- Hermetic seal
- Case isolated
- ESD protection
- Reverse wiring protection



Dynamic

Sensitivity, $\pm 10\%$, 25°C	10 mV/g
Acceleration range	500 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
$\pm 5\%$	3 - 5,000 Hz
$\pm 1\text{ dB}$	1 - 10,000 Hz
$\pm 3\text{ dB}$	0.4 - 14,000 Hz
Resonance frequency.....	32 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response:	
-50°C	-10%
$+120^{\circ}\text{C}$	+10%

Electrical

Power requirement: voltage source	18 - 30 VDC
current regulating diode	2 - 10 mA
Electrical noise, Broadband Spectral(g):	
2.5 Hz to 25 kHz.....	5 mg
10 Hz.....	100 µg/√Hz
100 Hz.....	40 µg/√Hz
1000 Hz.....	20 µg/√Hz
Output impedance, max.....	100 Ω
Bias output voltage.....	12 VDC
Grounding.....	case isolated, Internally shielded

Environmental

Temperature range.....	-50 to 120°C
Vibration limit.....	1000 g peak
Shock limit.....	5,000 g peak
Electromagnetic sensitivity, equiv g, max	70 µg/gauss
Sealing	Hermetic
Base strain sensitivity, max.....	0.0002 g/µstrain

Physical

Sensing element design.....	PZT ceramic/shear
Weight.....	80 grams
Case material.....	304L stainless steel
Mounting.....	1/4 - 28 UNF
Output connector.....	2 pin, MIL-C-5015
Mating connector.....	R6 type
Recommended cabling.....	J10 / J9T2A

Accessories

1/4-28 to 1/4-28 mounting stud (or customers specified)
Calibration certificate

Ordering Information

310A-500

