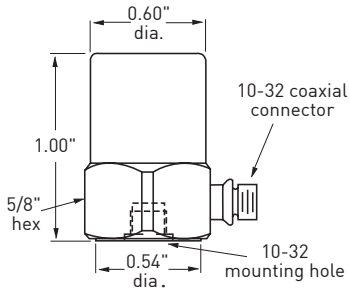
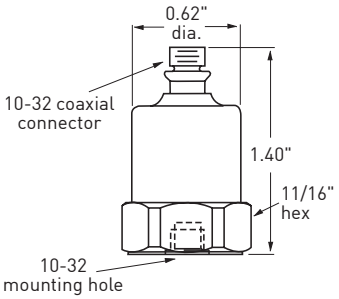
Wilcoxon Research

# Models 726/726T
# Small size piezoelectric accelerometers

Features
- Wide frequency range
- Low noise floor
- Hermetically designed
- Temperature compensated
- Wide dynamic range
- Small size, lightweight
- Reverse wiring protection




Model 726




Model 726T

## Dynamic

| | |
|---|---|
| Sensitivity, ±5%, 25°C | 100 mV/g |
| Acceleration range | 80 g peak |
| Amplitude nonlinearity | 1% |
| Frequency response: | |
| ±5 % | 2.0 - 10,000 Hz |
| ±10 % | 1.0 - 12,000 Hz |
| ±3 dB | 0.6 - 15,000 Hz |
| Resonance frequency, mounted, nominal | 32 kHz |
| Transverse sensitivity, max. | 5% of axial |
| Temperature response: | |
| –50°C | –10% |
| +120°C | +5% |

## Electrical

| | | |
|---|---|---|
| Power requirement: voltage source | | 18-30 VDC |
| current regulating diode | | 2 - 10 mA |
| Electrical noise, equiv. g, nominal: | | |
| Broadband | 2.5 Hz to 25 kHz | 60 µg |
| Spectral | 10 Hz | 8.0 µg/√Hz |
| | 100 Hz | 0.8 µg/√Hz |
| | 1,000 Hz | 0.3 µg/√Hz |
| | 10,000 Hz | 0.2 µg/√Hz |
| Output impedance, max. | | 100Ω |
| Bias output voltage, nominal | | 12 VDC |
| Grounding: | | |
| Model 726 (side connector) | | case grounded |
| Model 726T (top connector) | | base isolated |

## Environmental

| | |
|---|---|
| Temperature range | –50 to 120°C |
| Vibration limit | 500 g peak |
| Shock limit | 5,000 g peak |
| Electromagnetic sensitivity @ 60 Hz | 40 µg/gauss |
| Base strain sensitivity | 0.002 g/µstrain |

## Physical

| | |
|---|---|
| Weight: Model 726 | 30 grams |
| Model 726T | 34 grams |
| Case material | 316L stainless steel |
| Mounting | 10-32 tapped hole |
| Output connector | 10-32 coaxial |
| Mating connector | R1 |
| Recommended cable | J93 |

Accessories supplied: SF1 mounting stud, calibration data (Level 3)
Accessories available: R1-2-J93-10 cable assembly, magnetic mounting bases, SF5 cementing studs, SF4 isolation mounting bases, power supplies, amplifiers, signal conditioners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Due to continued research and product development, Wilcoxon Research reserves the right to amend this specification without notice.