# High sensitivity, high-frequency accelerometers

## 736 and 736T



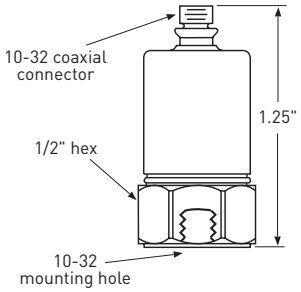
### SPECIFICATIONS

| | | |
|---|---|---|
| **Sensitivity, ±5%, 25°C** | | 100 mV/g |
| **Acceleration range** | | 50 g peak |
| **Amplitude nonlinearity** | | 1% |
| **Frequency response:** | **±5%** | 5 - 15,000 Hz |
| | **±3 dB** | 2 - 25,000 Hz |
| **Resonance frequency** | | 60 kHz |
| **Transverse sensitivity, max** | | 7% of axial |
| **Temperature response:** | **–50°C** | –10% |
| | **+120°C** | +5% |
| **Power requirement:** | | |
| **Voltage source** | | 18 - 30 VDC |
| **Current regulating diode** | | 2 - 10 mA |
| **Electrical noise, equiv. g:** | | |
| **Broadband** | **2.5 Hz to 25 kHz** | 150 µg |
| **Spectral** | **10 Hz** | 10 µg/√Hz |
| | **100 Hz** | 2 µg/√Hz |
| | **1,000 Hz** | 1 µg/√Hz |
| | **10,000 Hz** | 0.8 µg/√Hz |
| **Output impedance, max** | | 150 Ω |
| **Bias output voltage** | | 10 VDC |
| **Grounding** | | case grounded |
| **Temperature range** | | –50° to +120°C |
| **Vibration limit** | | 500 g peak |
| **Shock limit** | | 5,000 g peak |
| **Electromagnetic sensitivity, equiv. g** | | 100 µg/gauss |
| **Base strain sensitivity, max** | | 0.005 g/µstrain |
| **Sensing element design** | | PZT, compression |
| **Weight** | | 13 grams |
| **Case material** | | 316L stainless steel |
| **Mounting** | | 10-32 tapped hole |
| **Output connector** | | 10-32 coaxial |
| **Mating connector** | | R1 |
| **Recommended cabling** | | J93 |

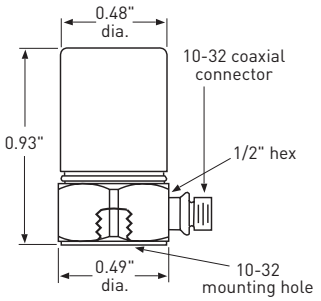
**Accessories supplied:** SF1 mounting stud (metric mounting available); calibration data (level 3)

### Key features

- Compact size
- Wide dynamic range
- Manufactured in ISO 9001 facility




Model 736T




Model 736

| Connections | |
|---|---|
| Function | Connector pin / cable conductor |
| power/signal | pin / center |
| common | shell / shield |

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

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