## High sensitivity, high-frequency accelerometers

# Wilcoxon SENSING TECHNOLOGIES

### 736 and 736T

#### **SPECIFICATIONS**

| Sensitivity, ±5%, 25°C  | 100 mV/g                          |
|---|-----------------------------------|
| Acceleration range  | 50 g peak                         |
| Amplitude nonlinearity  | 1%                                |
| Frequency response: ±5% ±3 dB   | ,                                 |
| Resonance frequency   | 60 kHz                            |
| Transverse sensitivity, max   | 7% of axial                       |
| Temperature response: -50°C +120°C  |                                   |
| Power requirement:<br>Voltage source<br>Current regulating diode                                | 18 - 30 VDC<br>2 - 10 mA          |
| Electrical noise, equiv. g: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz 10,000 Hz | 10 μg/√Hz<br>2 μg/√Hz<br>1 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                               |

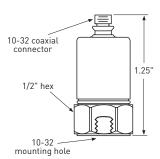
Accessories supplied: SF1 mounting stud (metric mounting available); calibration data (level 3)



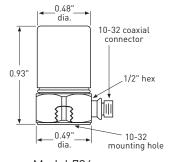


#### **Key features**

- · 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.

Tel: +1 (301) 330-8811 Fax: +1 (301) 330-8873 info@wilcoxon.com

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<u>Amphenol</u>: <u>736T</u> <u>736</u>