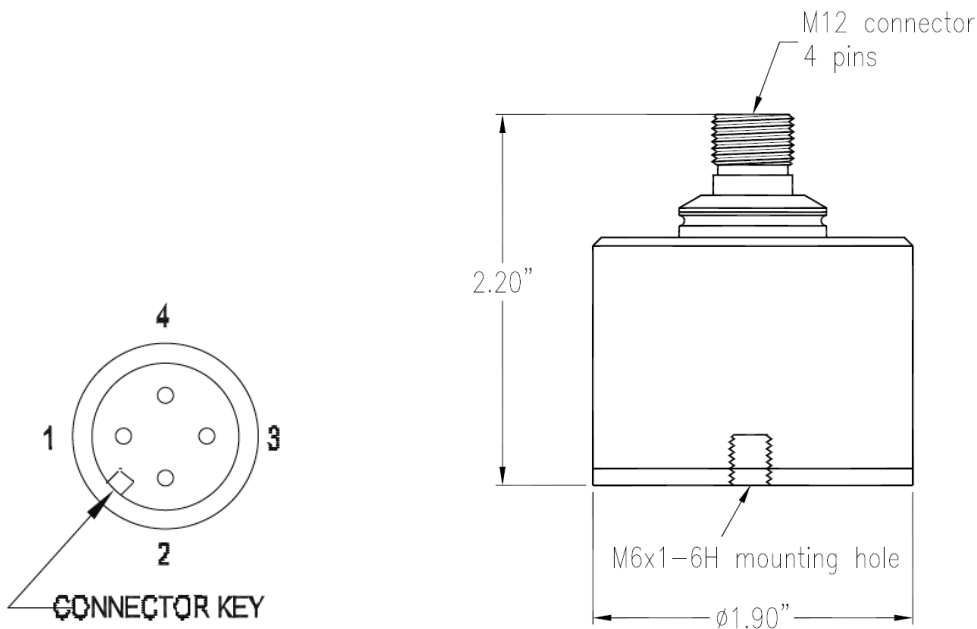


Ultra quiet, ultra low frequency, seismic accelerometer with temperature sensor

735T

Key features

- Ultra high sensitivity
- Ultra low-noise electronics for clear signals at sub micro-g levels
- Low frequency capable
- Low pass filtered to eliminate high frequencies
- Reverse wiring protection
- Manufactured in an approved ISO 9001 facility



| Connections | |
|----------------------------|---------------|
| Function | Connector pin |
| ground | shell |
| accelerometer power/signal | 1 |
| accelerometer common | 2 |
| temperature signal (+) | 3 |
| temperature common (-) | 4 |

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

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Wilcoxon Sensing Technologies
An Amphenol Company

Ultra quiet, ultra low frequency, seismic accelerometer with temperature sensor

735T



SPECIFICATIONS

| | |
|---|--|
| Accelerometer sensitivity, $\pm 10\%$, 25° C | 10 V/g |
| Acceleration range | 0.5 g peak |
| Amplitude nonlinearity | 1% |
| Frequency response ± 3 dB | 0.01 - 350 Hz |
| Resonance frequency | 700 Hz |
| Transverse sensitivity, max | 1% of axial |
| Temperature response, nominal | |
| -10° C | -20% |
| 0° C | -15% |
| +65° C | +50% |
| TEMPERATURE SENSOR | |
| RTD resistance at 0° C | 1000 Ω , $\pm 1\%$ |
| Class (per DIN 60751) | Class A |
| Alpha value (per DIN 60751) | 0.003850 |
| Temperature range ¹ | -50 to +150° C |
| Grounding | case isolated |
| Voltage source | 15 - 30 VDC |
| Current regulating diode | 1 - 10 mA |
| Electrical noise, equiv. g | |
| Broadband 2.5 Hz to 25 kHz | 0.5 μ g |
| Spectral 2 Hz | 20 ng/ $\sqrt{\text{Hz}}$ |
| 10 Hz | 7 ng/ $\sqrt{\text{Hz}}$ |
| 100 Hz | 3.5 ng/ $\sqrt{\text{Hz}}$ |
| Output impedance, max | 600 Ω at 1 mA, 100 Ω at 4 mA |
| Bias output voltage | 8 VDC |
| Grounding | case isolated |
| Temperature range | -10 to +65° C |
| Vibration limit, min | 10 g peak |
| Shock limit ² | 100 g |
| Sealing | hermetic |
| Weight | 380 grams |
| Case material | 316L stainless steel |
| Mounting | M6x1 tapped hole |
| Output connector | 4-pin, M12 |
| Mating connector ³ | 4- or 5-socket, M12 |

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Contact

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Accessories supplied:

- Calibration data (level 3)
- SF6M-1 mounting stud

Notes: ¹ Temperatures in excess of 65° C may permanently damage the accelerometer sensing function.

² Special handling required due to sensitivity; protective container included.

³ Cable shield must be electrically connected to M12 mating connector threaded nut.

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