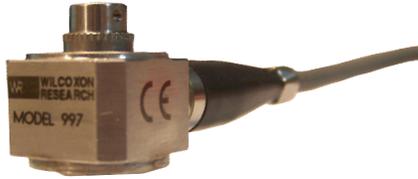


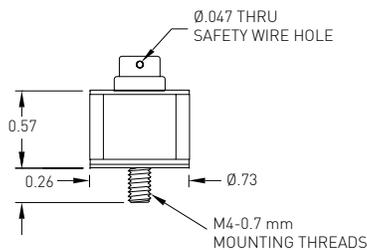
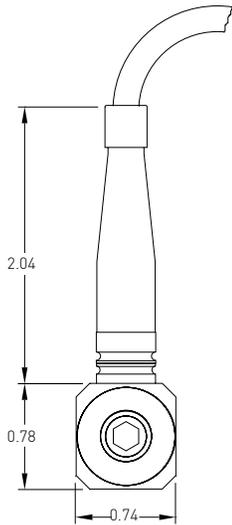


Wilcoxon Research model 997-M4 High frequency, ring type accelerometer



Features

- Corrosion resistant
- Hermetically sealed
- Ground isolated
- ESD protection
- Reverse wiring protection
- EMI/RFI protection



Dynamic

| | |
|--------------------------------------|-----------------|
| Sensitivity, $\pm 10\%$, 25° C..... | 10 mV/g |
| Acceleration range | 600 g peak |
| Amplitude nonlinearity..... | 1% |
| Frequency response: | |
| $\pm 5\%$ | 1.5 - 20,000 Hz |
| $\pm 10\%$ | 1.0 - 25,000 Hz |
| ± 3 dB | 0.5 - 29,000 Hz |
| Resonance frequency, mounted | >45 kHz |
| Transverse sensitivity, max..... | <3% of axial |
| Temperature response: | |
| -50° C..... | -10% |
| +125° C..... | +10% |

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..... | 1,000 μ g |
| Spectral | |
| 10 Hz..... | 25 μ g/√Hz |
| 100 Hz..... | 9 μ g/√Hz |
| 1000 Hz..... | 7 μ g/√Hz |
| Output impedance, max. | 100 Ω |
| Bias output voltage, nominal | 12 VDC |
| Grounding..... | case isolated, internally shielded |

Environmental

| | |
|------------------------------------|----------------------|
| Temperature range | -50 to 125° C |
| Vibration limit..... | $\pm 1,000$ g |
| Shock limit, max..... | 5,000 g peak |
| Sealing | hermetic |
| Base strain sensitivity, max | 0.03 g/ μ strain |

Physical

| | |
|------------------------|---|
| Weight..... | 35 g |
| Case material..... | 316L stainless steel |
| Mounting | M4 captive screw |
| Integral cabling | J10, 16 ft integral cable, Enviroprene™, 2 conductor shielded |

Connections

| Function | Cable conductor color |
|--------------|-----------------------|
| power/signal | white |
| common | black |
| case | shield |

Accessories supplied: M4 captive screw; calibration data (level 2)
Options: Cable length, connector

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