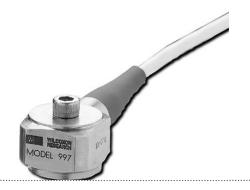
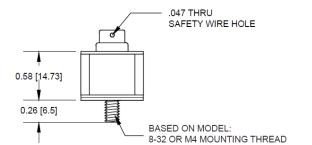


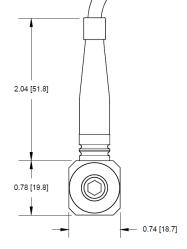
High frequency, integral cable accelerometers 997 series



High frequency accelerometers are ideal for applications involving high speed components such as machine tool spindles, compressors, and turbines. These applications often include gear mesh frequencies with higher harmonics or blade pass frequencies exceeding 60,000 CPM. Wilcoxon's high frequency 997 series sensors offer 10 mV/g sensitivity, preventing sensor overload. Sensors with 10 mV/g output are most commonly used due to their high amplitude range (600 g) which can be present in high speed applications. Typically there is little measurable vibration in terms of displacement and velocity at high frequency; however tremendous amounts of acceleration may be present.



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



Key features

- Corrosion resistant
- · Hermetically sealed
- ESD-protected
- Reverse wiring
 protection
- Internal ring offers
 extra isolation
- IP67 integral cable
- Manufactured in an approved ISO 9001 facility

Models available

997: 8-32 captive screw 997-M4: M4 captive screw

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

Wilcoxon Sensing Technologies 20511 Seneca Meadows Parkway Germantown, MD 20876 info@wilcoxon.com

Tel: (301) 330 8811 Fax: (301) 330 8873 www.wilcoxon.com

Wilcoxon Sensing Technologies An Amphenol Company

High frequency, integral cable accelerometers 997 series

SPECIFICATIONS

		Contact
Sensitivity, ±10%, 25° C	10 mV/g	
Acceleration range	600 g peak	Wilcoxon S
Amplitude nonlinearity	1%	Technologi
	5% 1.5 - 20,000 Hz 0% 1.0 - 25,000 Hz dB 0.5 - 29,000 Hz	20511 Senec Germantown Tel: +1 301 3
Resonance frequency, mounted	>45 kHz	Fax: +1 301 3
Transverse sensitivity, max	3% of axial	info@wilcoxo
Temperature response: -50 -25 +120	°C –1%	www.wilcoxor
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA	
Electrical noise, equiv. g, nominal: Broadband 2.5 Hz to 25 k Spectral 10 100 1,000	Hz 1,000 μg Hz 25 μg/√Hz Hz 9 μg/√Hz	
Output impedance, max	100 Ω	•
Bias output voltage, nominal	12 VDC	
Grounding	case isolated, internally shielded	
Turn-on time	<1 sec	
Temperature range	–50 to +120° C	Accessor
Vibration limit	1,000 g	Calibratio
Shock limit	5,000 g peak	Captive set
Sealing	hermetic	depends or
Base strain sensitivity, max	0.0005 g/µstrain	
Weight	35 grams	Options: c
Case material	316L stainless steel	
Mounting: 9 997-I	978-32 captive screwM4M4 captive screw	
Integral cabling	J10, 16 ft integral cable, Enviroprene, two conductor shielded	



Contact

Sensing aies

ca Meadows Parkway n, MD 20876, USA

330 8811 330 8873

on.com

on.com

ories supplied:

- on data (level 2)
- screw (type on model)

cable length

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