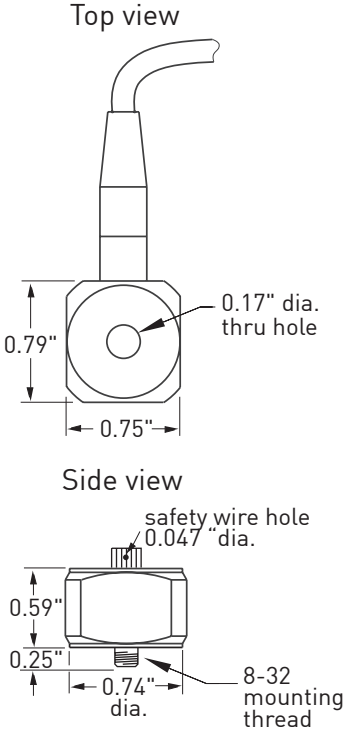


# Model 997 Series High frequency, ring type accelerometer

**Features**

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



**Dynamic**

Sensitivity, ±10% @25°C.....	10 mV/g
Acceleration range .....	600 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
5%.....	1.5 - 20,000 Hz
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 µg
Spectral 10 Hz.....	25 µg/√Hz
100 Hz.....	9 µg/√Hz
1000 Hz.....	7 µg/√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 .....	±1,000 g
Shock limit, max .....	5,000 g peak
Sealing .....	Hermetic
Base strain sensitivity, max .....	0.03 g/µstrain

**Physical**

Weight .....	35 grams
Case material .....	316L stainless steel
Mounting .....	8-32 captive screw
Integral cabling.....	J10, 16 ft. integral cable, Enviroprene™, two conductor shielded

Function	997
Power / signal	white
Common	black
Case	shield

Accessories supplied: 8-32 captive screw; calibration data (level 2)  
 Accessories available: M4 captive screw  
 Options: Cable length, connector

Wilcoxon Research Inc  
 20511 Seneca Meadows Parkway  
 Germantown, MD 20876  
 USA

Tel: 301 330 8811  
 Fax: 301 330 8873  
 Email: wilcoxon@meggitt.com

www.meggitt.com

**MEGGITT**  
 smart engineering for  
 extreme environments