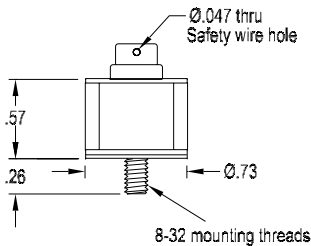
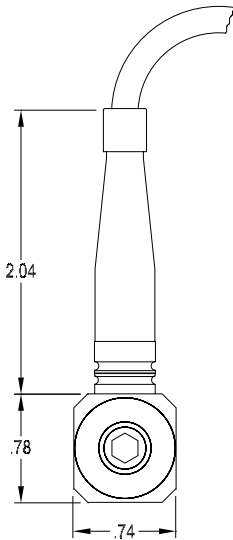




Wilcoxon Research model 712F High frequency, integral cable accelerometer

Features

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



Dynamic

Sensitivity, $\pm 10\%$ @25°C.....	100 mV/g
Acceleration range	60 g peak
Amplitude nonlinearity	1%
Frequency response:	
$\pm 5\%$	9.0 - 15,000 Hz
$\pm 10\%$	6.0 - 20,000 Hz
± 3 dB.....	3.0 - 25,000 Hz
Resonance frequency, mounted	>45 kHz
Transverse sensitivity, max.....	3% of axial
Temperature response:	
-50°C.....	-10%
+120°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/ \sqrt Hz
100 Hz		10 μ g/ \sqrt Hz
1000 Hz		8 μ g/ \sqrt Hz
Output impedance, max.		100 Ω
Bias output voltage, nominal		12 VDC
Grounding		case isolated, internally shielded

Environmental

Temperature range.....	-50 to 120°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

Sensing element design.....	PZT ceramic / shear
Weight.....	35 grams
Case material.....	316L stainless steel
Mounting	8-32 captive screw with 0.047" diameter safety wire hole
Mating connector	N/A
Integral cabling.....	J9T2A, 16 ft. blunt cut

Function	Cable conductor color
Power/signal	white
Common	black
Case	shield

Accessories supplied: 8-32 captive screw; calibration data (level 2)

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