

High frequency integral cable accelerometer



712F

SPECIFICATIONS

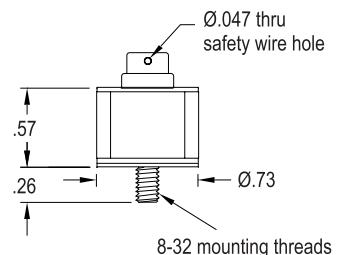
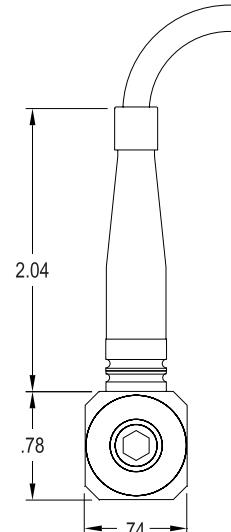
Sensitivity, $\pm 10\%$, 25°C	100 mV/g	
Acceleration range	60 g peak	
Amplitude nonlinearity	1%	
Frequency response:	$\pm 5\%$ $\pm 10\%$ ± 3 dB	9.0 - 15,000 Hz 6.0 - 20,000 Hz 3.0 - 25,000 Hz
Resonance frequency, mounted	>45 kHz	
Transverse sensitivity, max	3% of axial	
Temperature response:	-50°C +120°C	-10% +10%
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/ $\sqrt{\text{Hz}}$
	100 Hz	10 μ g/ $\sqrt{\text{Hz}}$
	1,000 Hz	8 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max	100 Ω	
Bias output voltage, nominal	12 VDC	
Grounding	case isolated, internally shielded	
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	
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	
Integral cabling	J9T2AK, 16 ft., blunt cut	

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



Key features

- Compact size, lightweight
- High frequency detection (25 kHz)
- Available with M4 mounting thread
- Manufactured in ISO 9001 facility



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

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

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