

High frequency integral cable accelerometer

712F

SPECIFICATIONS

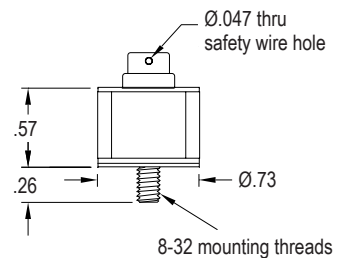
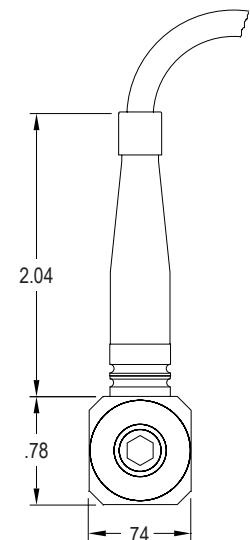
Sensitivity, $\pm 10\%$, 25°C		100 mV/g
Acceleration range		60 g peak
Amplitude nonlinearity		1%
Frequency response:	$\pm 5\%$	9.0 - 15,000 Hz
	$\pm 10\%$	6.0 - 20,000 Hz
	± 3 dB	3.0 - 25,000 Hz
Resonance frequency, mounted		>45 kHz
Transverse sensitivity, max		3% of axial
Temperature response:	-50°C	-10%
	+120°C	+10%
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
Recommended cabling		J9T2A, 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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