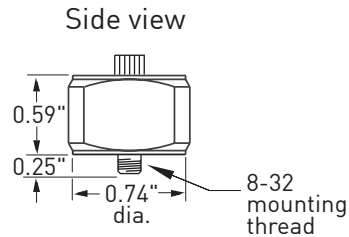
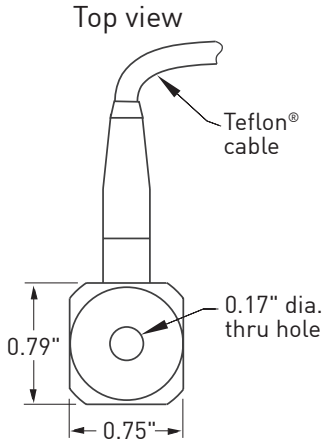


Model 712F High frequency, integral cable accelerometer



Features

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



Dynamic

Sensitivity, ±10% @25°C.....	100 mV/g
Acceleration range	60 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
±5%	9.0 - 15,000 Hz
±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 µg
Spectral 10 Hz		25 µg/√Hz
100 Hz		10 µg/√Hz
1000 Hz		8 µg/√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	±1,000 g
Shock limit, max.	5,000 g peak
Sealing	hermetic
Base strain sensitivity, max	0.03 g/µstrain

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

712F	Function
White	power / signal
Black	common
Shield	case

Accessories supplied: 8-32 captive screw; calibration data (level 2)
 Accessories available: M4 captive screw

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