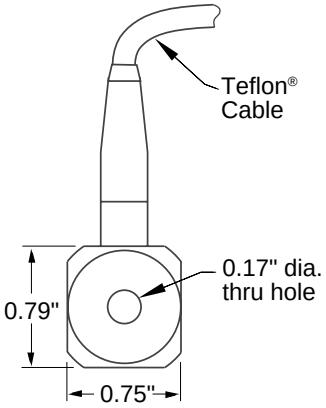
Model 712F

High Frequency, Integral Cable Accelerometer

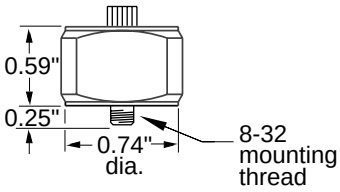
FEATURES:

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

Top View



Side View



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

FUNCTION	712F
power / signal	White
common	Black
case	Shield

ACCESSORIES SUPPLIED: 8-32 captive screw; Calibration data (level 2).

ACCESSORIES AVAILABLE: M4 captive screw.

Due to continued research and development, Wilcoxon Research reserves the right to amend this specification without notice.

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