+31 (0)70 3924421
+31 (0)70 3644249
www.altheris.com
sales@altheris.nl

ALTHERIS
SENSORS & CONTROLS

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 - 26,000 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
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

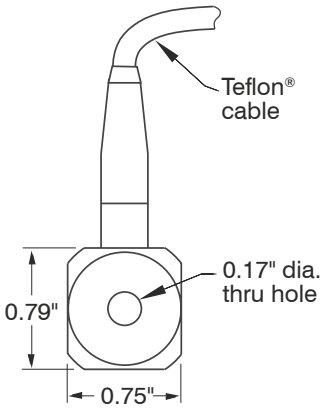
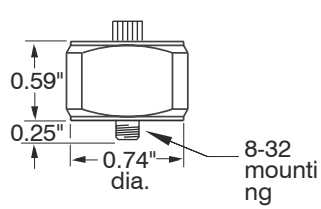
Sensing element design	PZT ceramic / shear
Weight	35 grams
Case material	316L stainless steel
Mounting	8-32 captive screw with 0.047" diameter safety wire hole
Mating connector	NPT 2A, 16 ft. blunt cut

712F	Function
White	power / signal
Black	common
Shield	case

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

Accessories available: M4 captive screw

Top view



Side view