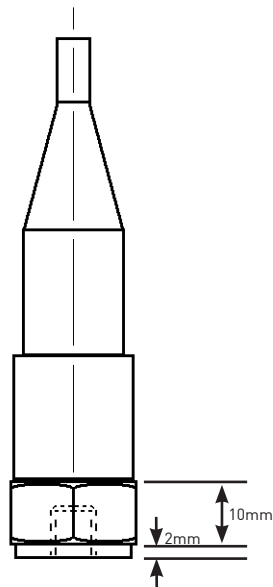
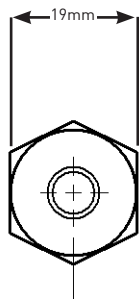




Model 746F-1 Underwater vibration sensor

Features

- Wide frequency range
- High pressure rating
- Ground isolated-eliminates ground loops
- Overcurrent protection
- Overvoltage protection



Dynamic

Sensitivity, ±5%, 25°C.....	40 mV/g
Acceleration range	50 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
±3 dB	1 - 10,000 Hz
Resonance frequency.....	20 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response:	
-50°C.....	-10%
+80°C.....	+4%

Electrical

Power requirement: voltage source.....	7 - 10 VDC
Electrical noise, equiv. g, nominal:	
Broadband 2.5 Hz to 25 kHz.....	75 µg
Spectral 10 Hz.....	7 µg/√Hz
100 Hz.....	1.3 µg/√Hz
1000 Hz.....	1.15 µg/√Hz
Output impedance, max	240 Ω
Bias output voltage.....	3.5 ±0.5 VDC
Grounding.....	case isolated

Environmental

Hydrostatic pressure.....	7x10 ⁶ Pa
Temperature range	-50 to 80°C
Vibration limit.....	500 g peak
Shock limit	5,000 g peak
Base strain sensitivity	0.005 g/µstrain

Physical

Dynamic weight.....	45 grams
Case material.....	titanium
Mounting	10-32 tapped hole
Integral cabling.....	Customer supplied 7 condition shield, 18 meters

Pin Out	Function
Red	signal out
White	+9VDC
Blue and brwon	common
Shield	isolated

Accessories supplied: calibration data

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