Underwater accelerometer

746

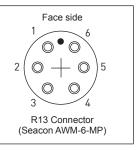
SPECIFICATIONS

Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range ¹	80 g peak
Amplitude nonlinearity	1%
Frequency response: ±1 dB ±3 dB	2 - 8,000 Hz 1 - 15,000 Hz
Resonance frequency, mounted, nominal	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -50°C +80°C	–10% +4%
Power requirement: Voltage source Current regulating diode ¹	18 - 30 VDC 2 - 10 mA
Electrical noise, equiv. g, nominal: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	50 μg 10 μg/√Hz 0.8 μg/√Hz 0.2 μg/√Hz
Output impedance, max	100 Ω
Bias output voltage	10, ±2 VDC
Grounding	isolated
Hydrostatic pressure	650 psi
Temperature range	–50° to +80°C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Base strain sensitivity	0.005 g/µstrain
Dynamic weight	45 grams
Case material	titanium
Mounting	10-32 tapped hole
Integral cabling	J6, 10 ft.

Notes: ¹ To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables.

Accessories supplied: SF1 mounting stud; calibration data

Pin assignments		
Pin#	Cable	
1	NC	
2	shield/common	
3	NC	
4	NC	
5	B+/signal	
6	NC	

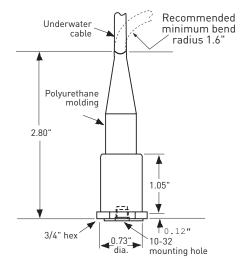






Key features

- · High pressure rating
- Wide frequency range
- · Manufactured in ISO 9001 facility



Connections	
Function	Connector
power/signal	center
common	shield

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

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