Underwater accelerometer

746

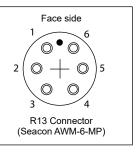
SPECIFICATIONS

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	l, 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, nomin Broadband 2.5 Hz to Spectral	nal: 0 25 kHz 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	

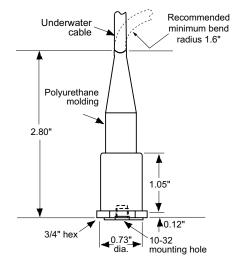






Key features

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



Connections		
Function	Connector	
power/signal	center	
common	shield	

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