

SNAP Model S100CS

Low cost, stud mount accelerometer



Features

- Rugged assembly
- Hermetic seal
- ESD protection
- Reverse wiring protection

Dynamic

Sensitivity, ±20%, 25°C.....	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity.....	1%
Frequency response, nominal:	
± 3 dB	0.5 - 10,000 Hz
Resonance frequency.....	26 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response:	
-50°C.....	-7%
+80°C.....	+5%

Electrical

Power requirement: voltage source	18 - 30 VDC
current regulating diode	2 - 10 mA
Electrical noise, equiv. g:	
Broadband 2.5 Hz to 25 kHz.....	700 µg
Spectral 10 Hz.....	10 µg/√Hz
100 Hz.....	5 µg/√Hz
1000 Hz.....	5 µg/√Hz
Output impedance, max.	100 Ω
Bias output voltage.....	12 VDC
Grounding.....	case isolated

Environmental

Temperature range	-50 to 80°C
Vibration limit.....	500 g
Shock limit, min.	5,000 g
Sealing	hermetic
Base strain sensitivity	g/µstrain

Physical

Sensing element design	PZT ceramic / shear
Weight	45 grams
Case material	316L stainless steel
Mounting	1/4 - 28 tapped hole
Mating connector	R35
Recommended cabling.....	J96

Connector pin	Function	Cable conductor color
Shell	common	shield
Pin	power / signal	center
Housing	isolated	N/C

Accessories supplied: SF6 mounting stud (International customers specify mounting requirements) calibration data (level 2).

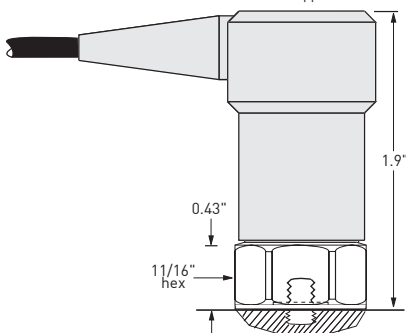
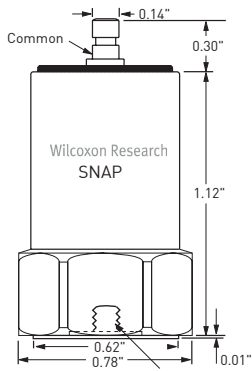
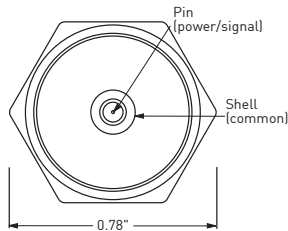
See back for SNAP™ cabling.

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S100CS shown with cable assembly and Viton® boot

SNAP cabling

Cable type & length	Wilcoxon part #	Description	Temperature range
Coaxial -16 ft -32 ft -64 ft	R35B-0-J41-16 R35B-0-J41-32 R35B-0-J41-64	Coaxial, black PVC jacket, 0.10 in. diameter, SMB connector with SNAP Viton® boot	-20 to 80°C
Triaxial -16 ft -32 ft -64 ft	R35B-0-J43-16 R35B-0-J43-32 R35B-0-J43-64	Triaxial, gray PVC jacket, 0.14 in. diameter, SMB connector with SNAP Viton® boot, outer shield isolated	-20 to 80°C
Twisted, shielded pair -16 ft -32 ft -64 ft	R35B-0-J96-16 R35B-0-J96-32 R35B-0-J96-64	Two conductor shielded, white Teflon® jacket, 0.14 in. diameter, SMB connector with SNAP Viton® boot shield isolated	-80 to 150°C