

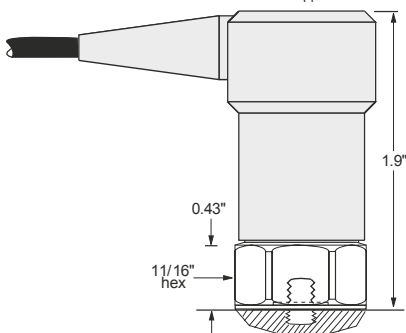
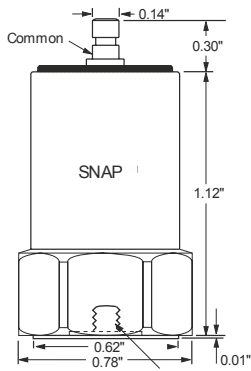
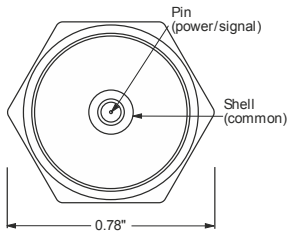
SNAP Model S100CS

Low cost, stud mount accelerometer



Features

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



S100CS shown with cable assembly and Viton® boot

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.

SNAP cabling

Cable type & length	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