

Current voltage drive (CVLD) accelerometers

793X-A and 793X-B

PRELIMINARY

SPECIFICATIONS

Sensitivity at 2.0 kHz, 22°C	20 mA/g
Acceleration range, min	0.5 g peak-peak
Amplitude nonlinearity	1%
Polarity:	
793X-A: motion in +Z direction leads to increase in acceleration and current	
793X-B: motion in -Z direction leads to increase in acceleration and current	
Frequency response, nominal	1.0 - 10.0 kHz (see page 2)
Resonance frequency, min	15 kHz
Transverse sensitivity, max	5%
Power requirement:	
Operation mode	Constant voltage drive (CVLD)
Voltage source	8.75 - 9.25 VDC
Current draw	25 mA max, over temp and full scale
Output impedance	1,000 Ω max
Bias output current (BOC)	10 mA typ.
Isolation	case isolated, internally shielded
Operating pressure	1,000 psi
Temperature range:	
Operating	-3°C to +50°C
Non-operating	-30°C to +65°C
Sealing	hermetic
Weight, without cables	100 grams
Output cable ¹	0.140" dia., polyurethane jacket, shielded twisted pair, 125°C
External material	316L stainless steel, polyurethane, syntactic foam

Notes: ¹ Cable length (in inches) specified by customer, denoted by -xxx at end of part number.

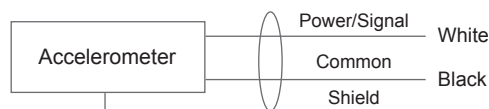
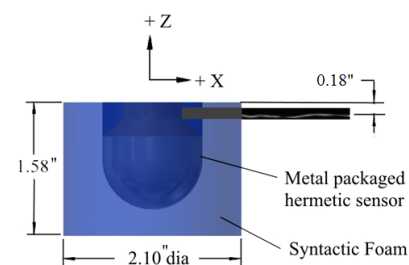
Features

- Single axis shielded accelerometer
- Integrated amplifier
- Neutral buoyant
- High frequency band
- Low noise
- High pressure rating

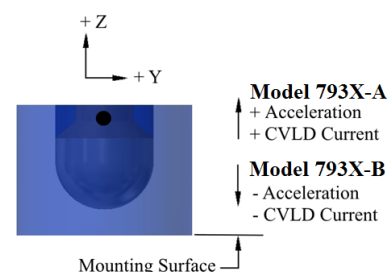
Applications & Purposes

- Towed array
- Stationary array
- Underwater monitoring station
- Sonobuoy
- Oil and gas exploration
- Marine wildlife monitoring
- Underwater acoustic research
- Harbor and inlet security
- Homeland security
- Military surveillance

PRELIMINARY



Connections	
Sensor	Cable
power/signal	white
common	black
sensor case	shield



Note: Due to continuous process improvement, specifications are subject to change without notice. Product may be subject to US export controls and restrictions under the ITAR or the EAR, please consult factory for export control status.

PRELIMINARY