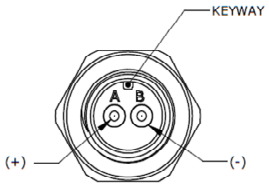
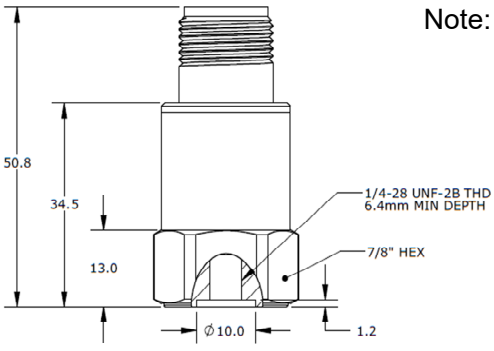
Senther 315W-50

Velocity transmitter

Features

- Rugged design
- High sensitivity
- Hermetic seal
- Case isolated
- ESD protection
- Reverse wiring protection
- EMI / RFI shielded





Dynamic

Sensitivity, ±10%, 25°C	3.9 mV/(mm/s)
Acceleration range	1270mm/s Peak
Amplitude nonlinearity	1%
Frequency response:	
±1 dB	3 - 3,500 Hz
± 3 dB	2 - 6,000 Hz
Resonance frequency	32 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	
–50°C	–10%
+120°C	+10%

Electrical

Power requirement: voltage source	18 - 30 VDC
current regulating diode	2 - 10 mA
Electrical noise, Broadband Spectral(g):	
2.5 Hz to 25 kHz	3 µm/s
Output impedance, max	100 Ω
Bias output voltage	12 VDC
Grounding	case isolated, Internally shielded

Environmental

Temperature range	–40 to 120°C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv g, max	70 µg/gauss
Sealing	Hermetic
Base strain sensitivity, max	0.0002 g/µstrain

Physical

Sensing element design	PZT ceramic/shear
Weight	80 grams
Case material	316L stainless steel
Mounting	1/4 - 28 UNF
Output connector	2 pin, MIL-C-5015
Mating connector	R6 type
Recommended cabling	J10 / J9T2A

Accessories

1/4-28 to M6 mounting stud (or customers specified)
Calibration certificate
Note: Frequency response limits spectral and noise values are typical

Ordering Information

315W-50

- Range in inch
- Output type
- Model