

Accelerometer

FN8-6 CVLD-DR746F-1

SPECIFICATIONS

DYNAMIC (at 20°C)	
Measurement range	±5 g
Sensitivity (100 Hz)	1 mA/g ±5%
Transverse sensitivity	<3%
Nonlinearity, 5°C < T < 25°C	±1% max (ref. 20°C), typically <0.3%
Passband:	
at ±10%	5 Hz - 10 kHz
at ±3 dB	1 Hz - 16 kHz
Resonance frequency	>25 kHz
ELECTRICAL (at 20°C)	
Power supply rejection	>40 dB
Background noise:	
5 Hz - 10 kHz	<0.1 mg
1/3 octave from 10 Hz to 1 kHz	<0.02 mg
Power requirement, voltage source:	
100 Ω load	9 - 16 VDC
500 Ω load	13 - 16 VDC
Bias output current	8.8 - 11.8 mA
Insulation (electronics to case)	50 MΩ, min.
Grounding	Internally shielded, case isolated, case connected to outer cable shield
ENVIRONMENTAL	
Hydrostatic pressure	7 x 10 ⁶ Pa (1015 psi)
Base strain sensitivity	<0.75 g for 250 μstrain
Acoustic sensitivity	<0.1 mg
100 dB SPL 1/3 octave	
100 - 10,000 Hz	
Sensitivity to environment:	
Magnetic (B=0.75 mT)	<2 mg
Magnetic (per IT 8839)	<10 μV, typical
Pressure (700 < P < 1300 mB)	<0.1 mg
Shock limit, max (half sine, 0.5 ms)	5,000 g
Storage temperature range	-40° to +70°C
PHYSICAL	
Cable	shielded, twisted pair, 7 ft (2.1 m) standard
Mounting	M6x1 - 6g (see drawing on reverse)
Dynamic mass	120 grams, nominal
Case material	stainless steel

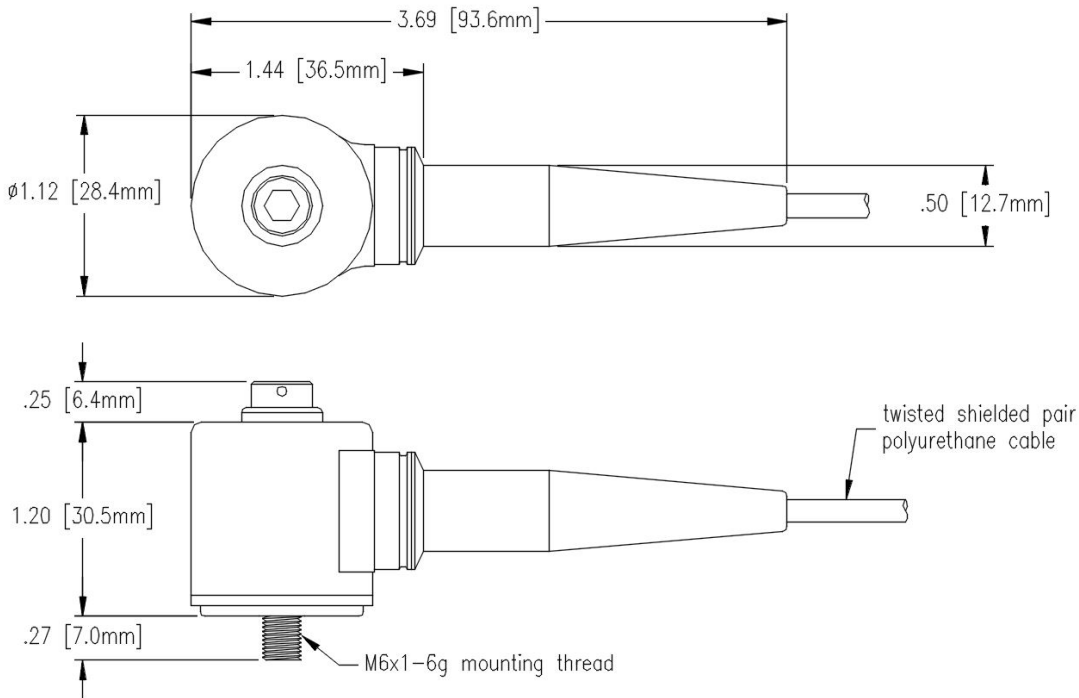
See reverse for dimensions.

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

Accelerometer

FN8-6 CVLD-DR746F-1

Dimensions



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