

Accelerometer

FN8-6 CVLD

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	
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, halogen-free
Mounting	M6x1 - 6g (see drawing on reverse)
Dynamic mass	120 grams, nominal
Case material	316L stainless steel

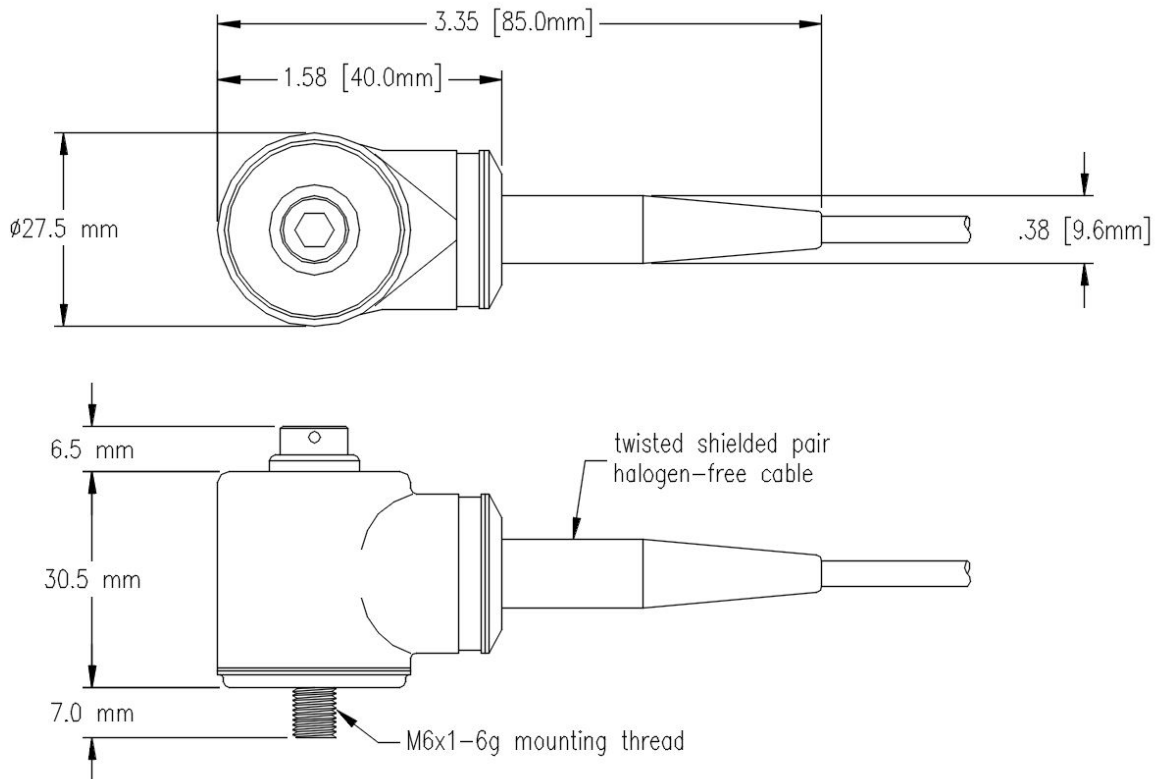
See reverse for dimensions.

Note: Due to continuous process improvement, specifications are subject to change without notice.
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Dimensions



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