

RMS output accelerometer



Features

- 4~20mA output
- Wide frequency response
- Rugged design
- High sensitivity
- Hermetic seal
- Case isolated
- ESD protection
- Reverse wiring protection

Dynamic

Sensitivity, $\pm 10\%$, 25°C.....	1.6 mA/g
Acceleration range	10 g RMS
Amplitude nonlinearity.....	1%
Frequency response:	
$\pm 5\%$	3 - 5,000 Hz
± 1 dB.....	1 - 10,000 Hz
± 3 dB.....	0.4 - 14,000 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
Electrical noise, Broadband Spectral(g):	
2.5 Hz to 25 kHz.....	500 μ g
10 Hz.....	10 μ g/ $\sqrt{\text{Hz}}$
100 Hz.....	5 μ g/ $\sqrt{\text{Hz}}$
1000 Hz.....	2.5 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max.....	100 Ω
Bias Current $\pm 10\%$	4 mA
Grounding.....	case isolated, Internally shielded

Environmental

Temperature range.....	-50 to 120°C
Vibration limit.....	500 g peak
Shock limit.....	5,000 g peak
Electromagnetic sensitivity, equiv g, max	70 μ g/gauss
Sealing	Hermetic
Base strain sensitivity, max.....	0.0002 g/ μ strain

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

310C-10

