

SPECIFICATIONS

General

Input power requirements	: None
Signal transmission	: 2-pin system, insulated from case, charge output
Signal processing	: Charge converter (IPC70x signal conditioner)

Operating

(At 23°C ±5°C, 73°F ±9°F)

Sensitivity (at 120 Hz with 5 g, see Calibration on page 4)	: 100 pC/g ±5%
Dynamic measurement range	: 0.01 to 500 g peak
Linearity	
• 0.01 to 100 g (peak)	: ±1%
• 100 to 500 g (peak)	: ±2%
Transverse sensitivity	: <3%
Resonant frequency	: >20 kHz nominal
Frequency response	
• 0.5 to 6000 Hz	: ±5% (lower cutoff frequency is determined by the signal conditioner)
• Typical deviation at 10 kHz	: +15%
Internal insulation resistance	: 10 ⁹ Ω minimum
Capacitance	
• Sensor only version	: 15 pF nom. between pin (+ or –) and case (ground). 8000 pF max. between pins (+ and –).
• Integral cable versions	: 15 pF nom. between pin (+ or –) and case (ground). 8000 pF max. between pins (+ and –) + 200 pF/m of integral cable.

Environmental

Temperature range	
• Continuous operation	: –60 to +260°C (–76 to +500°F)
• Short-term survival (15 minutes maximum)	: –70 to +290°C (–94 to +554°F)
Temperature sensitivity error (with respect to 23°C, 73°F)	
• –60°C to +260°C	: ±10%
Corrosion, humidity	: AISI 316L stainless steel, hermetically welded
Base-strain sensitivity	: 0.8 × 10 ^{–3} g/με
Shock acceleration	: < 1000 g peak (half sine, 1 ms duration) along sensitive axis