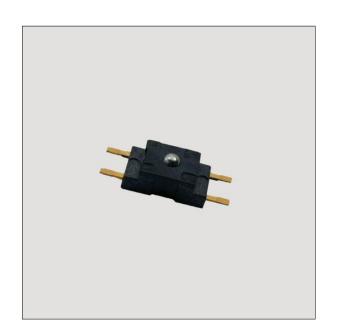


FEATURES

- · 0...1500 g range
- · High impedance bridge
- · Compact, commercial grade package
- Robust performance characteristics
- · Ratiometric electrical output
- Extremely low deflection
- High ESD resistance
- Sensortechnics PRO services



SPECIFICATIONS

Maximum ratings

Supply voltage	3 6 V
Temperature limits	

 Storage
 -40 ... +100°C

 Operating
 -40 ... +85°C

Lead temperature (5 sec. soldering) 315 °C

Humidity limits 0 ... 99 %RH

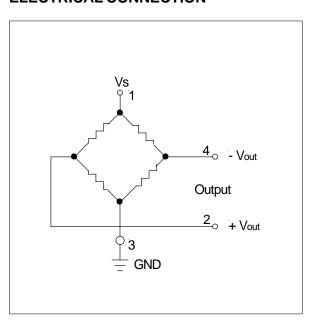
Vibration (0 to 2000 Hz)

(qualification tested, 0 to 2 KHz) 20 g sine

Mechanical shock (qualification tested) 150 g

Over force¹ 4500 g

ELECTRICAL CONNECTION



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COMMON PERFORMANCE CHARACTERISTICS

 $V_s = 5.0 \pm 0.01 \text{ V}, t_{amb} = 25^{\circ}\text{C} \text{ (unless otherwise noted)}$

Characteristics		Min.	Тур.	Max.	Unit	
Operating force		0		1500	g	
Zero pressure offset		-15		+15		
Span ²		150	180	210	mV	
Temperature effects (0 50°C) ⁴	Offset		±0.5			
	Span		-2200		nnm/9C	
Temperature effects on bridge impedance ⁴			+2200		ppm/°C	
Linearity (BSL) ³			±0.7	±1.5		
Mechanical hysteresis ⁵			±0.5		% span	
Repeatability at 300g ⁵			±1.5		mV	
Input impedance		4.0	5.0	6.0	kΩ	
Output impedance		4.0	5.0	6.0		
ESD (direct contact, terminals and plunger)		8			kV	
MCTF (main cycles to failure at 50°C)			20		million cycles	

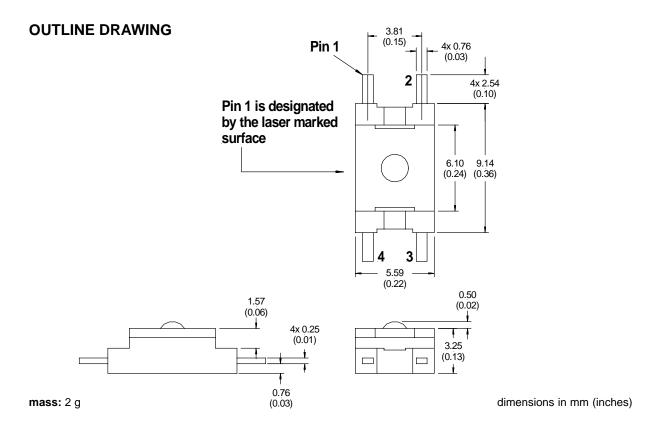
Specification notes:

- 1. The maximum specified force which may be applied to the sensor without causing a permanent change in the output characteristics.
- 2. Span is the algebraic difference between the output voltage at full-scale force and the output at zero force. Span is ratiometric to the supply voltage.
- 3. Linearity (BSL), the deviation of measured output at constant temperature (25°C) from "Best Straight Line" determined by three points, offset pressure, full-scale pressure and half full-scale pressure.
- 4. Error band of the offset voltage, span or bridge impedance in the specified temperature range, relative to the 25°C reading.
- 5. Repeatability, the deviation in output readings for successive application of any given input force (all other conditions remaining constant. Hysteresis, the error defined by the deviation in output signal obtained when a specific force point is approached first with increasing force, then with decreasing force or vice versa (all other conditions remaining constant).

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ORDERING INFORMATION

	Series	Pressure range			Lead style		Packaging	
Options	RFU	1500	01500 g	1	Straight	Р	Blister pack	
Example:	RFU	1500		1		Р		

Sensortechnics PRO services:

- · Extended guarantee period of 2 years
- · Improved performance characteristics
- · Custom product modifications and adaptations even for small quantities
- · Advanced logistics models for supply inventory and short delivery times
- Technical support through application engineers on the phone or at your site
- · Fastest possible technical response for design and QA engineers
- ... plus other services on request

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