

2 Pin  
Threaded Connector



## SA6200A - General Purpose

- High accuracy and repeatability yet priced within budget
- Eliminate wiring polarity errors with our patented Independent Polarity Terminals (IPT®)<sup>1</sup>
- Eliminate false indications caused by high frequency noise rectified as low frequency using patented anti-ski slope technology

Notes:

1. IPT (Independent Polarity Terminal) is a registered trademark of Metrix Instrument Co.

### Features

- Highest Accuracy
- Wide Frequency Response
- Hermetic S.S. Case
- Cannot be wired incorrectly

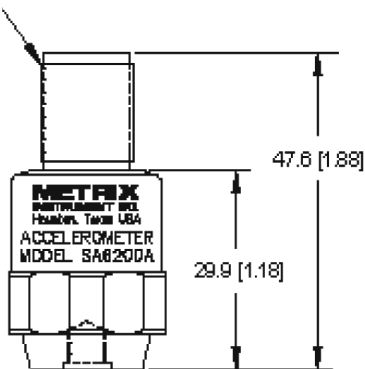
### Applications

- Motors
- Gear Boxes
- Paper Machines
- Process Pumps
- Fans
- Rotor Blade Pass Sensing
- Turbocharger Engine Vibration
- Cooling Tower Fans
- Engines

Capable of sensing a wide range of vibration frequencies, these accelerometers are ideal for use on a variety of machines. A built-in amplifier provides a high level, low impedance output, which is the industry standard. It consists of a temperature stabilized piezo-electric sensor and an amplifier packaged together in a stainless steel case, from which the sensing circuit is electrically isolated. A choice of mounting styles is available.

### Weight & Dimensions

ELECTRICAL CONNECTOR  
5/8-24 UNEF - 2A  
2 PIN (MIL-C-5015)  
SHOWN



**Weight:**  
SA6200A - 91 gm (3.1 oz)

Dimensions in mm [inches]

NOTE: \*Connections are non polarity sensitive (IPT®).

### How to Select

SA6200A -  A  B  C

A  Hazardous Area Rating

1 = CSA intrinsically safe\* for Class I, Div. 1, Grps A-D; Temp. Code T4

2 = CENELEC intrinsically safe\*; EEx ia IIC T4, ATEX

\* When wired using approved barrier (not included).

B  Mounting Stud

0 = 1/4-28 UNF

1 = M6 x 1.0

C  Connector Type

1 = 2 pin Hermetic Plug

### Specifications

#### Dynamics:

Accuracy: 2% (Repeatability)

Sensitivity (±5%): 100 mV/g

Frequency Response:

3 to 1.5 KHz (± 5%)

1.5 Hz to 2.5 KHz (±10%)

0.5 Hz to 10 KHz (±3dB)

Resonant Frequency: 13 KHz

Cross Axis Sensitivity: <5%

Measurement Range: ≥50 g

Resolution: 0.002 g

#### Mechanical:

Case Material: 303 SS

Connector Type: See "How to Select C"

Hermetic Seal: Welded

Mounting Stud: 1/4-28 UNF or M6 X 1.0 (P/N 3719-007)

Sensing Element: Quartz

Sensing Structure: Shear

Weight: 91 gm (3.1 oz)

#### Electrical:

Case Isolation: 10<sup>8</sup> ohms

Excitation Current: 2 to 20 mA

Excitation Voltage: 18 to 28 VDC, Polarity Indifferent

Full Scale Output Voltage: ±5 volts

Output Bias: 8 to 12 volts

Settling Time: 5 seconds max.

Transient Protection: RFI & ESD

#### Environmental:

Shock Limit: 5,000 g

Temperature Range: -54°C to +121°C

Electromagnetic Compatibility: CE Certified

Hazardous Area Certification: See How To Select "A"

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