

Yekan A230 Vibration Sensor

Piezoelectric Accelerometer (Isolated)

Datasheet

Rev. V1.1



Description

Yekan's piezoelectric accelerometer is engineered for precise and reliable vibration measurements in demanding industrial environments. Featuring integrated IEPE circuitry, it delivers low-noise performance and high immunity to external disturbances. The durable 2-pin MIL-C-5015 connection ensures secure and easy integration, making it ideal for various industrial monitoring applications requiring accuracy and stability.

Features:

- Sensitivity of 100 mV/g for precise vibration measurement.
- Wide Measurement Range: Capable of measuring vibrations in the range of ± 50 g.
- Integrated IEPE Circuitry: Built-in IEPE technology minimizes noise and ensures stable signal output.
- Robust Noise Immunity: High resistance to external disturbances for reliable data integrity.
- Durable 2-Pin MIL-C-5015 Connector: Secure and easy integration in industrial applications.

Ordering Information

A230 COMPACT MULTIPURPOSE ACCELEROMETER TOP EXIT 2PIN CONNECTOR, 100mV/g

A230-AA

A: Connection & Cable Type

| | |
|----|---|
| 1A | 2pin MIL-C-5015 Connector Without Integral Cable |
|----|---|



Specifications

| | |
|---|------------------------|
| Sensitivity (20±5°C) | 100 mV/g |
| Measurement Range (pk) | ±50 g |
| Max Transverse Sensitivity | <5% |
| Frequency Response (±10%) | 1~9,000 Hz |
| Frequency Response (±3dB) | 0.4~12,000 Hz |
| Mounting Resonant Frequency | ≥30 KHz |
| Amplitude linearity | ≤1% |
| Operating Temperature Range | -40 ~ +120 °C |
| Shock Limit (pk) | 3000 g |
| Noise (rms) | <50 µV |
| Output Impedance | <100 Ω |
| Operating Voltage (Constant Current Source) | 18~28 VDC |
| Operating Current | 2~10 mA |
| DC Bias Voltage | 12±2 VDC |
| Case Isolation | ≥10 ⁸ Ω |
| Mounting | 1/4-28 |
| Sensing Element | Piezoelectric Ceramics |
| Sensing Geometry | Shear |
| Case Material | 304 Stainless Steel |
| Weight | ~52 g |
| Connector | 2pin MIL-C-5015 |

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