CRY435

IEPE Accelerometer, High-sensitivity, Side 2-Pin connector

Features

- **Key Specifications**

Sensitivity	100 mV/g
Frequency Response	1 Hz to 6 kHz (±10%)
	0.5 Hz to 10 kHz(±3 dB)
Measuring Range	±50g pk

- **Applications**

  High precision measurements
  Industrial vibration measurements

Introduction

CRY435 is a single-axis acceleration sensor. The output mode is a 2 - core connector that complies with the MIL - C - 5015 standard and is installed on the object through an M6 bolt. It is often used for on-line monitoring of vibration state of industrial equipment.

CRY435 can be used with armored shielded cables to measure vibration parameters such as acceleration, velocity, and displacement under strong interference conditions such as industrial and electric power.

Highlights

- **Applications of High-sensitivity Accelerometer**

  High-sensitivity accelerometers can detect small changes in acceleration, providing accurate and reliable acceleration data for the early small fault vibration monitoring of industrial equipment and laboratory scientific research.

- **Compatibility**

  The IEPE accelerometer is a PE charge accelerometer with an integrated preamplifier with an output signal in the form of a low-impedance voltage output that can be matched to a common coaxial cable.
  IEPE is a universal constant current source power supply technology used on sensors. Each manufacturer has different names, such as ICP, CCP, etc.

- **Calibration**

  Each CRYSOUND accelerometer is calibrated at the factory using traceable calibration equipment. Calibration certificates are provided with each unit. CRYSOUND recommends recalibration at least once a year.

- **Quality & Warranty**

  All CRYSOUND accelerometers are made of stainless steel with good corrosion resistance and robustness, suitable for long-term storage.

  CRYSOUND preamplifiers are supported by a 1-year warranty—offering one of the best service guarantee in the world.

Technical Specifications

Dynamic Characteristics

Sensitivity	100 mV/g
Frequency Response	1 Hz to 6 kHz (±10%) 0.5 Hz to 10 kHz(±3 dB)
Measuring Range (Peak)	±50g pk
Transverse Sensitivity	≤5%

Electrical Characteristics

Output Impedance	<100 Ω
Excitation Voltage	18 VDC to 28 VDC
Full Scale Output (Peak)	±5 V
Constant Current	2 mA to 10mA
Noise	< 50 uV
Bias Voltage	12 ± 2 V
Install Ground Insulation	10^8Ω

Environmental Characteristics

Max Shock Protection	±2000g
Operating Temperature	-40 ℃ to +120 ℃

Physical Characteristics

Connector Type	Side 5/8-24 (2-Pin)
Threaded Interface	M6
Sensing Structure	Shear Mode
Case Materials	304 Stainless Steel
Sensing Element	PZT-5
Weight	70 g

Frequency Response

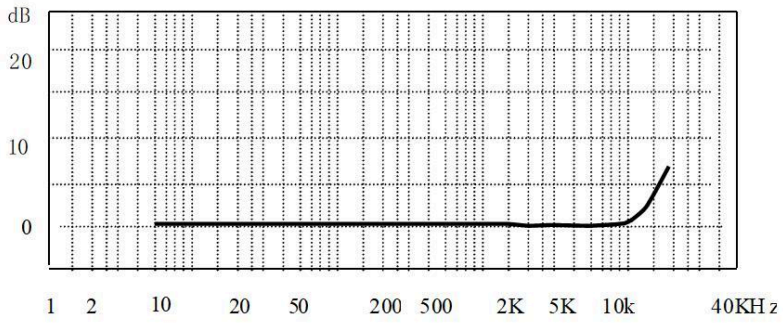

Fig.1 CRY435 Accelerometer Typical Frequency Response

Drawings(mm)[inch]

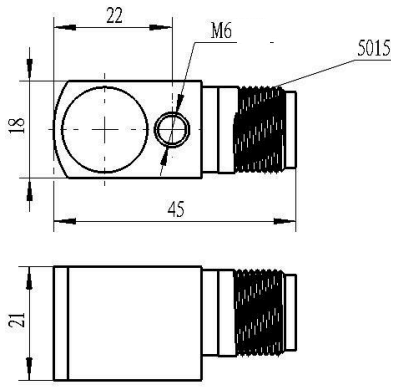

Fig.2 CRY435 Accelerometer Drawings

Ordering Information

Optional Accessories

Cable	MIL 2-pin connecting cable / 2m

Related Products

CRY431	1 Axis, high-g, IEPE accelerometer 5 mV/g, top M5 connector
CRY441	1 Axis, high-g charge accelerometer, 5pC/g, miniature, side M5 connector
CRY446	Triaxial, high-g, IEPE accelerometer, 10 mV/g, miniature, side connector