CRY443

Triaxial IEPE Accelerometer, Side 4-Pin Connector

Features

- **Key Specifications**

Sensitivity	50 mV/g
Frequency Response	1 Hz to 4kHz (±1 dB)
Measuring Range	±100g pk

- **Applications**

  Universal measurements
  Industrial vibration measurements

Introduction

CRY443 is a three-axis acceleration sensor. The output mode is M12*1 (4 cores). It is installed on an object through an M5 bolt and is often used for online monitoring of the vibration status of industrial equipment.

CRY443 can be used with armored shielded cables for measuring parameters such as acceleration, velocity, and displacement under strong interference conditions such as in industry and power.

Highlights

- **Applications of Industrial General Accelerometer**

  The industrial universal accelerometer is designed to be durable, with long-term stability and durability, and can be widely used in petrochemical, power energy, transportation and other fields.

- **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	50mV/g
Frequency Response	1 Hz - 4kHz (±10%) 0.7Hz - 8kHz(±3dB)
Measuring Range (Peak)	±100g pk
Transverse Sensitivity	≤5%
Amplitude Non-linearity	≤±1%

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
Background Noise	< 200uV
Install Ground Insulation	$10^8\Omega$
Bias Voltage	10V - 12 V

Environmental Characteristics

Max Shock Protection	±1000g
Operating Temperature	-40 ℃ to +120 ℃

Physical Characteristics

Connector Type	Side M12, 4-Pin
Threaded Interface	M5
Sensing Structure	Shear Mode
Case Materials	304 Stainless Steel
Level of Protection	IP65
Weight	95g

Drawings(mm)[inch]

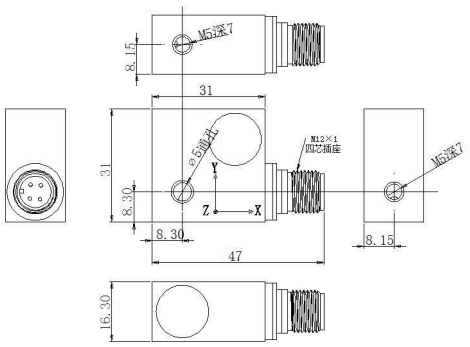

Fig.1 CRY443 Accelerometer Drawings

Ordering Information

Optional Accessories

Cable	M12 4-p plug shielded cable/5m

Related Products

CRY431	1 Axis, high-g, IEPE accelerometer 5 mV/g, top M5 connector
CRY437	1Axis, high-g, IEPE accelerometer, 10 mV/g, miniature, Overall cable
CRY446	Triaxial, high-g, IEPE accelerometer, 10 mV/g, miniature, side connector