

## IEPE Triaxial impact acceleration sensor

Model No: B00Y48

### Product Features:

- Specifically designed for high-temperature and high-pressure testing environments.
- The maximum operating temperature is up to 500°C, and it can withstand a pressure of 18MPa
- It features special high-temperature piezoelectric materials and a special high-temperature alloy casing.
- It has a high-temperature alloy cable output.

### Technical specifications

Features	Units	B0048Y
Sensitivity	mV/g	1
Measuring Range	g	±5000
Frequency Response ±5%	Hz	
Frequency Response ±10%	Hz	5-10k
Amplitude Linearity	%	≤1
Transverse Sensitivity	%	≤5
Mounting Resonant Frequency	kHz	≥70
Time constant	s	≤0.5
Resolution ratio	grms	0.01

### Environmental

Shock Limit <sup>1</sup>	g pk	10000
Maximum Vibration <sup>2</sup>	g rms	6000
Sensitivity Temperature Coefficient	%/°C	0.030
Operating Temperature	°C	-50~120
Base Strain	g/ε	0.001

### Electrical Parameters

Supply constant voltage	VDC	20-30
Supply constant current	mA	2-20
Full scale voltage	V	±5
Maximum overrange output	V	±6
DC bias	V	8-12
Output impedance	Ω	≤100

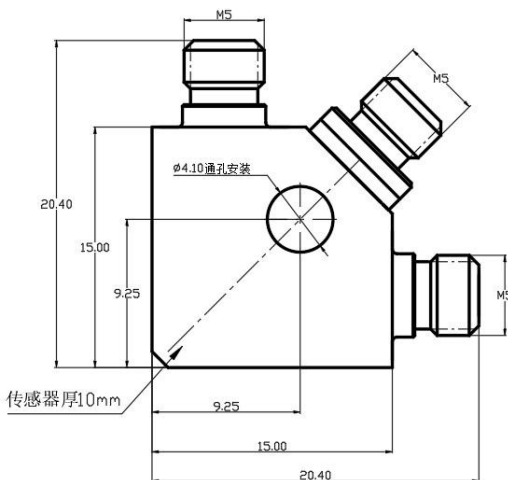
### Structure

Sensitive Element	PZ34 Piezo-ceramic	
Housing Material	Titanium alloy	
Sealing Type	Laser welding IP68	
Output Connector	M5×3	
Installation Type	4.1 Through-hole/M5	
Insulation Resistance to Ground	Ω	-

### Mass

	g	8.5
Recommended Installation Torque	N·m	3.0

Notes: 1,2: Refer to the sensor's mechanical structure not being damaged while in a non-powered state.



### Product Factory Configuration:

- User Manual
- Factory Calibration Report
- standard 1 meter cable mounting screws
- insulated mounting set