

## PE high temperature and high pressure acceleration sensor

### Product Features:

**Model No: C05CT1**

- 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	C05CT1
Sensitivity	pC/g	50
Measuring Range	g	±300
Frequency Response ±5%	Hz	1-3k
Frequency Response ±10%	Hz	0.5-4k
Amplitude Linearity	%	≤1
Transverse Sensitivity	%	≤3
Mounting Resonant Frequency	kHz	≥15

### Environmental

Shock Limit <sup>1</sup>	g pk	1000
Maximum Vibration <sup>2</sup>	g rms	500
Sensitivity Temperature Coefficient	%/°C	0.030
Operating Temperature	°C	-50~500
Base Strain	g/ε	0.0008

### Electrical Parameters

Core Capacitance	pF	1600
Core Insulation Resistance	Ω	≥1×10 <sup>10</sup>

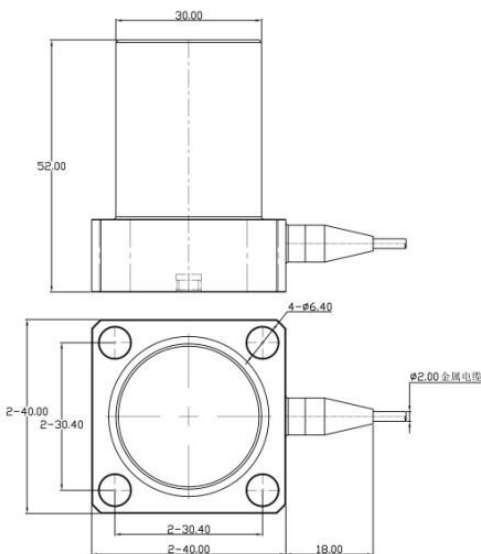
### Structure

Sensitive Element	High-Temperature Piezoelectric Ceramic
Housing Material	Nickel-Based Alloy
Sealing Type	Laser welding IP68
Output Connector	Φ2 High-temperature Integral

Installation Type	M6 Through-hole x4	
Insulation Resistance to Ground	Ω	≥1×10 <sup>8</sup>

<b>Mass</b>	g	190
Recommended Installation Torque	N·m	3.6

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 3-meter High-Temperature Cable