



SINOCERA



Global Sensor Technology

General Purpose Medium Sensitivity (2.0pC/ms^{-2}) Accelerometer

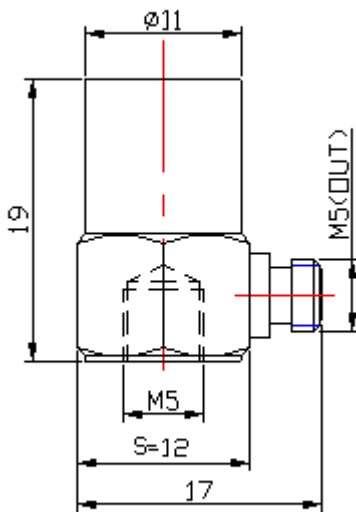
Model CA-YD-103

FEATURES

- General purpose vibration and shock measurement
- Low cost
- No supply required
- Charge output

SUPPLIED WITH

- Calibration chart
- M5 to M5 stud
- M5 to M8 stud
- Protective cap
- STYV-1 cable, fitted with L5 connectors (2m)



PERFORMANCE

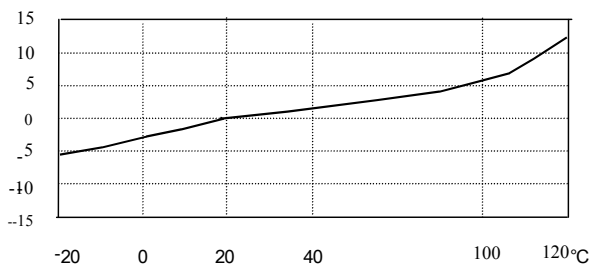
Sensitivity (at $20\pm 5^\circ\text{C}$)	2.0pC/ms^{-2}
Transverse sensitivity	$\leq 5\%$
Frequency response	see graph below
Frequency range ($\pm 5\%$)	0.5Hz to 12kHz
Resonance frequency	40kHz
Temperature response	see graph below
Output phase	in phase with input
Isolation resistance	$> 10^9\Omega$
Capacitance	600Pf

PHYSICAL CHARACTERISTICS

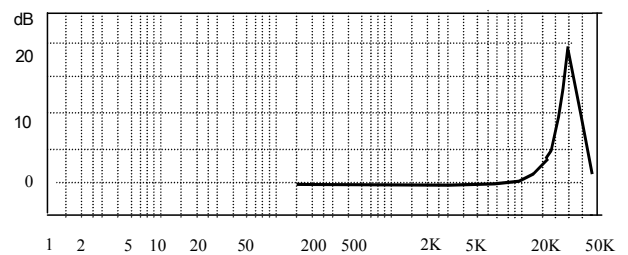
Weight	14g
Case material	stainless steel
Mounting	M5 stud
Sensing element	PZT-5
Sensor design	compression
Electrical connection	side L5 connector

ENVIRONMENTAL CHARACTERISTICS

Temperature range	-20 to $+120^\circ\text{C}$
Measurement limit	$20,000\text{ms}^{-2}$ (2000g)
Thermal transient sensitivity	$1\text{ms}^{-2}/^\circ\text{C}$ (at 0.3Hz)
Magnetic sensitivity	$20\text{ms}^{-2}/\text{T}$
Base strain sensitivity	$6\text{ms}^{-2}/\mu\text{e}$



Typical Temperature Response



Typical Frequency Response (Hz)