



SINOCERA



Global Sensor Technology

0.2Hz to 1kHz 1.0V/ms⁻² ICPE Accelerometer

Model CA-YD-159

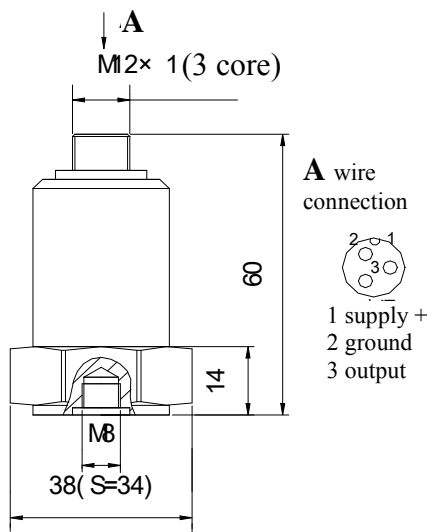
FEATURES

- Internal ICPE circuit
- 1.0V/ms⁻² high sensitivity
- Isolated case mounting
- Rugged construction



SUPPLIED WITH

- Calibration chart



PERFORMANCE

Sensitivity (peak)	1.0V/ms ⁻² ±5%
Measurement range	10ms ⁻²
Transverse sensitivity	≤5%
Frequency response	see graph below
Frequency range (10%)	0.2Hz to 1kHz
Frequency range (3dB)	0.07Hz to 1250Hz
Resolution	2×10 ⁻⁴ ms ⁻²
Temperature response	see graph below
Output phase	in phase with input

ELECTRICAL CHARACTERISTICS

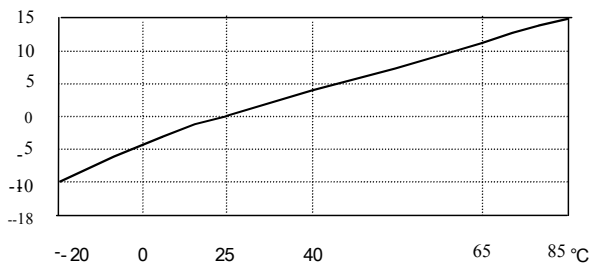
Supply voltage	24V to 30V(DC)
Maximum output(peak)	10V
Output impedance	<200Ω
DC offset	0V

ENVIRONMENTAL CHARACTERISTICS

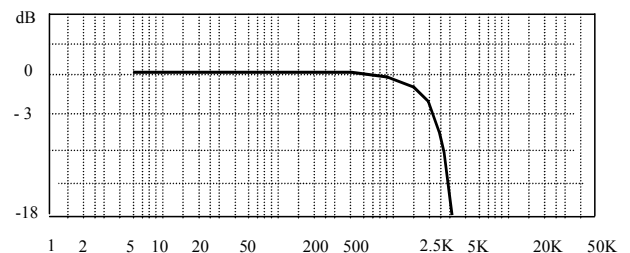
Temperature range	-40°C to 80°C
Shock limit	5,000ms ⁻²
Isolation resistance	>20 ⁸ Ω

PHYSICAL CHARACTERISTICS

Weight	250g
Case material	stainless steel
Mounting	M8 thread
Sensing element	PZT-5
Sensing method	plane shear



Typical Temperature Response



Typical Frequency Response (Hz)