



SINOCERA



Global Sensor Technology

## 0.2Hz to 1kHz 1.0V/ms<sup>-2</sup> ICPE Accelerometer

## Model CA-YD-159

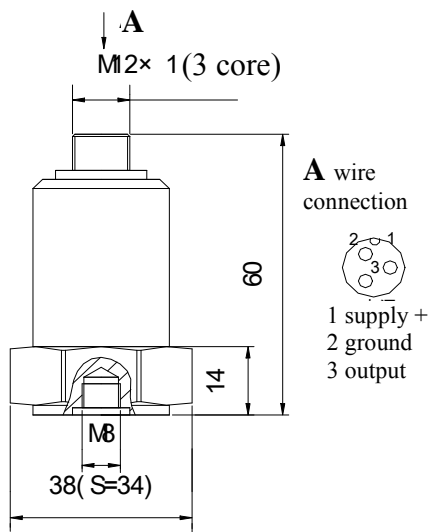
### FEATURES

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



### SUPPLIED WITH

- Calibration chart



### PERFORMANCE

Sensitivity (peak)	1.0V/ms <sup>-2</sup> ±5%
Measurement range	10ms <sup>-2</sup>
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 <sup>-4</sup> ms <sup>-2</sup>
Temperature response	see graph below
Output phase	in phase with input

### ELECTRICAL CHARACTERISTICS

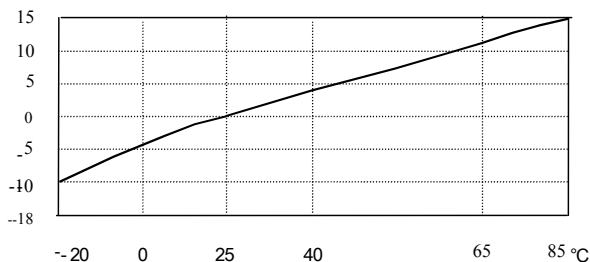
Supply voltage	24V to 30V(DC)
Maximum output(peak)	10V
Output impedance	<200Ω
DC offset	0V

### ENVIRONMENTAL CHARACTERISTICS

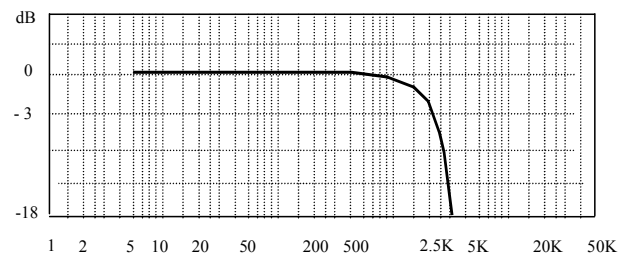
Temperature range	-40°C to 80°C
Shock limit	5,000ms <sup>-2</sup>
Isolation resistance	>20 <sup>8</sup> Ω

### 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)

Global Sensor Technology

Unit 1, 26 Fairholme Road, Manchester, M20 4NT, UK

Phone: +44 (0)161 446 4848 Fax: +44 (0)161 438 2828 [www.globalsensortech.com](http://www.globalsensortech.com) techsupport@globalsensortech.com