

# E256–10 Accelerometer

## Description

- E256–10 is a small hermetically sealed piezoelectric accelerometer, its sensitive element is piezo-crystal in annular shear mode
- Long stability of sensitivity output
- Signal ground is isolated from the mounting surface of the unit

## Characteristics

- Milli-g' s resolution
- Adhesive mounting
- Light weight (5 grams)
- Hermetically sealed
- Drop testing, vibration measurement on small structure, modal studies

Dynamic Characteristics	
Range	$\pm 500g$
Sensitivity ( $\pm 10\%$ )	10mV/g
Non-linearity	$\leq 1\%$
Amplitude Response( $\pm 1dB$ )	1 ~ 10,000Hz
Resonant frequency	25kHz
Transverse Sensitivity	$\leq 5\%$
Electrical Characteristics	
DC output bias voltage	+8.5 ~ +11.5Vdc
Output Resistance	$\leq 200\Omega$
Output Voltage	$\pm 5V$
Overload recovery	$\leq 10\mu s$ sec
Grounding	Signal ground connected to inner case but isolated from outer housing
Power Requirement	
Excitation voltage	+18 ~ +24Vdc
Supply current	+2 ~ +10mA
Warm-up time	<5 Sec
Environmental characteristics	
Working temperature	-55°C ~ +125°C
Vibration limit	1000 g pK
Shock limit	2000 g pK
Humidity	Hermetically sealed
Thermal transient Sensitivity	0.18g pk/°C
Base strain Sensitivity	0.0008g pK/ $\mu$ Strain
Electromagnetic sensitivity	0.0001g rms/gauss
Physical characteristics	
Weight	5grams
Case material	Stainless steel
Mounting	Flat finish provided for adhesive mounting

- Through the assessment of environmental test: Vibration, Shock, Acceleration, Electromagnetic compatibility, Temperature, Altitude, Temperature impact, Mould, Salt mist, Humidity and hot etc.