

### CZ - 049 Peak Impact Vibration Sensor

#### 1.工作原理

冲击振动峰值传感器是利用半导体材料的压阻效应原理制成的。

该传感器可广泛应用于航空、航天、汽车工业等领域冲击振动方面的测量。

#### 2.特点

传感器与信号调理电路做成一体，输出信号大，不需再加放大器，使用方便。电路中加入带通滤波器，提高传感器抗干扰能力。

#### 3.主要技术指标

量程： $\pm 50g$ ；输出电压： $1\sim 5VDC$ ；频率响应： $5\sim 1000Hz$ ；温度范围： $-20\sim 50^{\circ}C$ ；  
零点温度系数： $\pm 1\%FS$ ；最高加速度极限： $20X$ 。

CZ-049 peak impact vibration sensor is made with piezoresistive effect principle of semiconductor materials. The sensor can be widely used in impact and vibration measurement in aviation, spaceflight, and automobile industry, etc.

Characteristic:

Sensor and signal conditioning circuit are integration, output signal is big, no need amplifier and easy to use. band-pass filter is added in the circuit to improve the anti-jamming ability of the sensor.

Main technical index:

range:  $\pm 50g$   
voltage output:  $1\sim 5VDC$   
frequency response:  $5\sim 1000Hz$   
temperature range:  $-20\sim 50^{\circ}C$   
Zero temperature coefficient:  $\pm 1\%FS$   
acceleration limit:  $20X$