CZ-044型三维过载传感器

CZ-044 Three-dimensional overload sensor

1.工作原理

CZ-044三维过载传感器是内装信号调节

2.特点

传感器具有直流响应,零点输出稳定,横向 灵敏度低,内置高阶低通滤波器,对不需要的高 频加速度信号不响应等特点。

3.应用范围

应用于航天、航空等领域的遥测,还广泛应用于其 它领域对过载、低频振动和 冲击以及物体倾斜的测量。

1.working principle:

CZ-044 Three-dimensional overload sensor is piezoresistive type acceleration sensor with built-in signal regulator. Piezoresistive acceleration sensor element is designed with whole silicon structure, which is a piece of processed silicon block supporting by silicon framework with many beams. When silicon frame subjected to acceleration, stress variety make the value of piezoresistive change in the beam cased by inertia force silicon block relative to the inertial frame motion, Thus, the voltage conversion can be achieved by bridge.

2 characteristic:

Sensor has characteristics of dc response, zero output stability, low transverse sensitivity with the built—in high—order lowpass filter, there is no response to needless high frequency acceleration signal etc.

3.Application range: .

Applied to telemetering in the field of aerospace, aviation, etc, also widely used in other areas to measure vibration, impact of overload, low frequency and object tilt.