Kirchner elektronik

Kirchner elektronik, Wilhelm-Bode-Str. 38, D - 38106 Braunschweig

Acceleration sensor

The acceleration sensor is used to measure vibrations on speaker casings, car body's or machine parts. A acceleration measures the actual substance vibrations only and not the air sound waves. During the measurement the vibrations are transmitted to the sensor casing. In the casing there is an elektret foil, whose mass works against that of the casing. Thus creating a voltage that relates to the casing vibration.

Measuring

The sensors are not gauged, the shown amplitudes are not defined values. The measurable frequency range is 30Hz – 3KHz. The sensor shows the frequency of the vibration and by comparing you can suppress the vibrations by choice.

Mounting

The sensor is fixed to the measurement object with two sided sticky tape.

Connection

The sensor is connected to the microphone input of the soundcard. Here the sensitivity has to be increased by turning on the Mic- boost or microphone amplifier in the system control.