

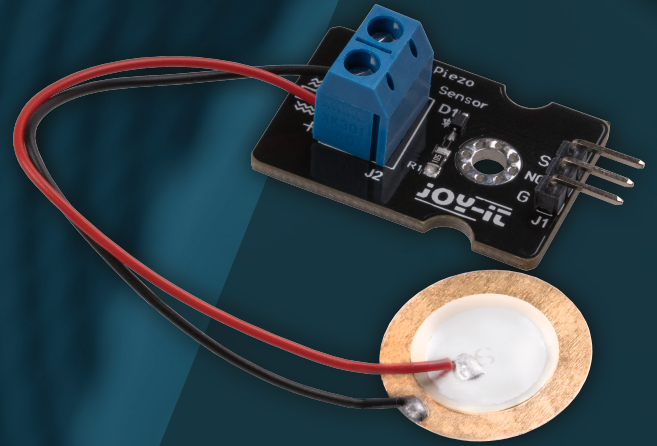
VIB01 ANALOG VIBRATION SENSOR

PIEZOELECTRIC VIBRATION SENSOR WITH CERAMIC CHIP

JOY-IT

SPECIAL FEATURES

- ✓ Piezoelectric ceramic chip for precise vibration measurement
- ✓ Analog output signal proportional to vibration strength
- ✓ Direct connection to measurement and control systems possible
- ✓ Passive operation without own power supply
- ✓ High sensitivity even with weak vibrations
- ✓ Reliable for machine monitoring and shock detection



The SEN-VIB01 is an analog piezoelectric vibration sensor based on a precise ceramic chip. When vibrations occur, it generates an analog voltage signal proportional to the strength of the vibration, which can be processed directly by measuring devices, microcontrollers or control systems. This means that the sensor can be easily integrated into existing systems and requires minimal effort for signal processing.

With its compact dimensions of $36 \times 20 \times 14$ mm, the SEN-VIB01 can also be used in confined installation spaces. The wide operating temperature range of -10 to $+70$ °C and the robust design ensure reliable operation in laboratories and industrial applications. Thanks to its passive mode of operation, the sensor does not cause any additional interference and does not require a supply voltage itself.

Typical applications include the monitoring of machines and systems, the detection of imbalances and shocks as well as use in safety-relevant areas. The SEN-VIB01 also delivers precise results in research and development, in test set-ups or in product analysis. Its high sensitivity enables the detection of both weak and strong vibrations.

The analog interface allows uncomplicated integration into existing circuits and data acquisition systems. This makes the SEN-VIB01 a reliable and economical solution when it comes to flexible vibration monitoring and vibration analysis in professional environments.

MAIN FEATURES

Chip	Piezoelectric ceramic chip
Interface	Analog
Functionality	When the chip vibrates, it generates a corresponding analog signal
Resonant frequency	6.8 ± 0.7 kHz
Resonance	$\leq 300 \Omega$
Static capacity	$15000 \pm 30\%$ PF
Metal plate diameter	20 ± 0.1 mm
Diameter of the ceramic disk	15 ± 0.2 mm
Metal plate thickness	0.16 ± 0.03 mm
Total thickness	0.30 ± 0.05 mm

FURTHER INFORMATION

Dimensions	36 x 20 x 14 mm
Weight	6 g
Item number	SEN-VIB01
Scope of delivery	SEN-VIB01
EAN	4250236821825
Customs tariff number	8473302000