

Overview

KEMET vibration sensors can collect vibrations over a wide frequency range (10 Hz-15 kHz) in real time with 20 times the sensitivity of conventional sensors. Optimizing the composition of the ceramic material and using a unique vibration amplifying mechanism efficiently converts vibrations into electrical signals. Models with added oil and water resistance are also available so that they can be used for the IoT of machines and equipment.

Benefits

- Proprietary piezo ceramic material
- High sensitivity and wide frequency
- Band voltage output through the built-in amplifier
- Small size and low Profile

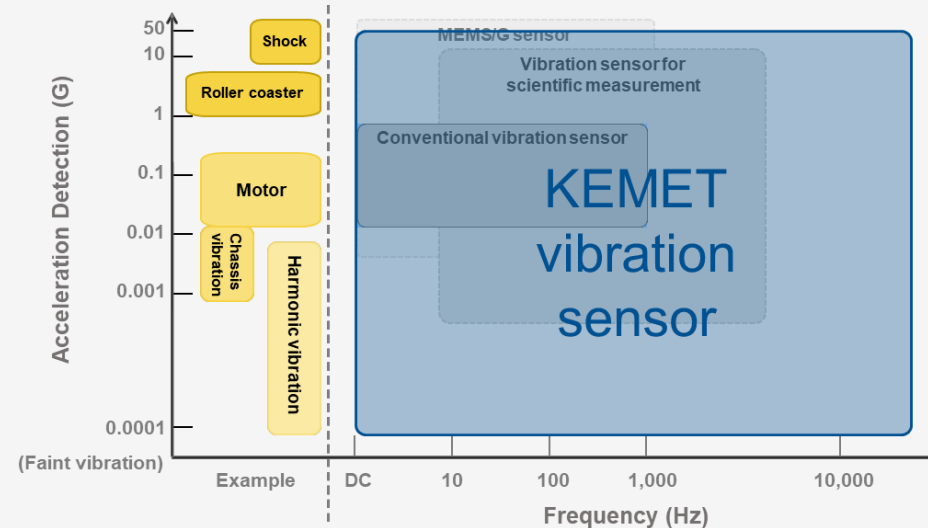
Applications

- Rotating equipment (motors, pumps, etc.)
- Machine tools (machining center, etc.)
- Various manufacturing equipment

Sensor Specifications

Model	VS-JV10A	VS-JV02A	VS-BV203B
Sensitivity	10 mV /m/s ²	2 mV /m/s ²	20 mV /m/s ²
Measuring Range	±100 m/s ²	±500 m/s ²	±50 mV /m/s ²
Frequency Range	10 to 15,000 Hz		10 to 15,000 Hz
Power Supply Voltage	3.2 to 5.5 V		3 to 5.5 V
Offset Voltage (Center Voltage Value)	1.5 V		1/2 power supply voltage
Grounding	Case-insulated		Case-grounded
Operating Temperature	-25°C to +85°C		-25°C to +75°C
Protection	IP67 (equivalent)		-
Dimensions	Φ18 x 11 mm		11.4 x 8.4 x 2.9 (H) mm
Cable Length	10 m		3 m

Acceleration Detection Area

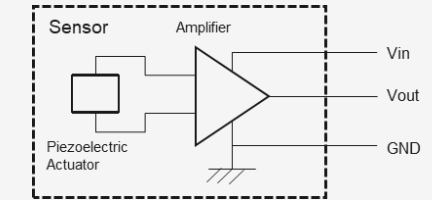


[Datasheet Link](#)

VIBRATION SENSORS VS Accelerometers



Circuit Structure



Sensitivity Characteristics

