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## Technical Vibration Analyser Switch PCE-VS11

### PCE-VS11 Vibration Sensor Switch

#### Setup via USB and PC / Includes software for detailed vibration analysis

PCE-VS11 is a vibration meter, analyzer or sensor condition monitoring switch used to measure RMS value, peak value and **frequency domain (FFT)** of vibration velocity or acceleration piezoelectrically. This IP67-rated vibration monitoring switch features a red and green visual warning or alarm with programmable high pass and low pass filters.

- Ideal for machine condition monitoring and quality control applications
- Measures RMS and peak value of vibration velocity or acceleration
- Monitoring of frequency domain (FFT)
- Piezoelectric accelerometer
- IP67 ingress protection rating against water and dust
- Features a red and green visual warning or alarm
- Programmable high pass and low pass filters
- Emergency shut-off
- Setup via USB and PC
- Includes software for detailed vibration analysis

#### Technical specifications:

Measuring range	0.1 ... 1000 m/s <sup>2</sup> acceleration Frequency dependent velocity 2 ... 1000 or 20 ... 10,000 Hz / 360 lines frequency domain
Monitoring values	Peak value of vibration acceleration or vibration velocity RMS value of vibration acceleration or vibration velocity Frequency domain (FFT)
High pass filter	0.1 / 2 / 5 / 10 / 20 / 50 / 100 / 200 / 500 / 1000 Hz acceleration 2 / 5 / 10 / 20 / 50 Hz velocity
Low pass filter	0.1 / 0.2 / 0.5 / 1 / 2 / 5 / 10 kHz acceleration 1 kHz velocity

FFT limits	10 freely selectable frequency intervals with limit amplitudes
Relay output	PhotoMOS relay SPST Max. 60 V / 0.5 A (AC/DC) Open/close programmable Connection via screw terminals
Teach-in function	Button for measuring the switching threshold
Warning / alarm	Green and red LEDs
Alarm delay / hold time	0 ... 99 s / 0 ... 9 s
Interfaces	USB 2.0 full speed for parameterization and measurement CDC mode / virtual COM port Micro USB port inside
External USB port	No
Power supply voltage	5 ... 30 V DC 5 V DC USB < 100 mA screw terminals
Ingress protection	IP67 rating
Operating temp. range	-40 ... +80 °C / -40 ... +176 °F
Approx. weight	160 g / 0.36 lb
Approx. dimensions	50 mm / 1.97" Ø 52 mm / 2.05" height
Mounting	M8 thread pin 8 mm / ≈ 0.32" length 25 mm / ≈ 0.99" Ø coupling surface

#### **Delivery contents:**

- 1 x PCE-VS11 vibration sensor switch
- 1 x USB cable
- 1 x PC-compatible software
- 1 x user manual