



PCE Americas Inc.  
711 Commerce Way  
Suite 8  
Jupiter  
FL-33458  
USA  
From outside US: +1  
Tel: (561) 320-9162  
Fax: (561) 320-9176  
info@pce-americas.com

PCE Instruments UK Ltd.  
Units 12/13  
Southpoint Business Park  
Ensign way  
Hampshire / Southampton  
United Kingdom, SO31 4RF  
From outside UK: +44  
Tel: (0) 2380 98703 0  
Fax: (0) 2380 98703 9  
info@pce-instruments.com

[www.pce-instruments.com/english](http://www.pce-instruments.com/english)  
[www.pce-instruments.com](http://www.pce-instruments.com)

## Technical Vibration Sensor Switch PCE-VS12

### PCE-VS12 Vibration Sensor Switch

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

PCE-VS12 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 an **external USB port, 8-pin female connector 711** and 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 an external USB port and 8-pin female connector 711
- 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 8-pin female connector 711
Teach-in function	Button for measuring the switching threshold
Warning / alarm	No
Interfaces	USB 2.0 full speed for parameterization and measurement CDC mode / virtual COM port 8-pin female connector 711
External USB port	Yes
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	125 g / 0.28 lb
Approx. dimensions	50 mm / 1.97" Ø 36 mm / 1.42" height
Mounting	M8 thread pin 8 mm / ≈ 0.32" length 25 mm / ≈ 0.99" Ø coupling surface

**Delivery contents:**

- 1 x PCE-VS12 vibration sensor switch
- 1 x USB cable
- 1 x PC-compatible software
- 1 x user manual