

# Vibration sensor

Type: KPV100

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## Application

- For measuring vibration
- Predictive maintenance

## Properties

- Bluetooth or WiFi communication
- Wide frequency range
- 0-1600Hz, 0-800Hz, 0-400Hz, 0-200Hz, 0-100Hz and 1-50 Hz
- 128 Bin FFT output
- Vibration g range selectable from  $\pm 2g$  to  $\pm 16g$
- Measures in three directions, X, Y and Z
- Ambient temperature min/max:  $-40/+85^{\circ}\text{C}$
- Build-in intelligent alarm system
- Plug and Play solution



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## Electrical specifications

### Supply

10-28 VDC

### Output

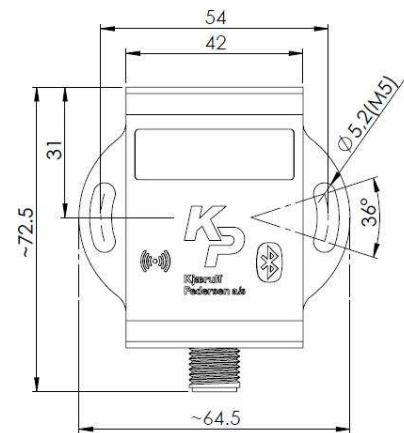
Proprietary protocol on Bluetooth or WIFI  
PNP and NPN alarm signals

### Connection: M12

Others on request depending on quantity

## Functionality

- The sensor is built for measuring vibrations
- The main components of the sensor are an accelerometer for vibration measurement and a DSP processor for data processing
- Data output is a 128 Bin FFT array.



## Environmental

### Temperatures

Temperature on electronics:  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$

### EMS

Emission: Domestic, EN 61000-6-3

Immunity: Industrial, EN 61000-6-2