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Vibration sensor

VIM32PL-E1V16-0RE-I421V14

- Analog current output
- Screw-in thread for simple installation
- Simple electrical commissioning
- Rugged stainless steel housing
- Vibration velocity in mm/s (rms) acc. to DIN ISO 10816/20816
- Switching output

Vibration sensor with switching output and analog current output





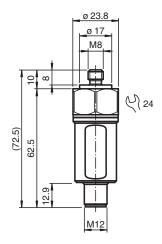


Function

The vibration sensor determines the vibration quantity using rms (root meas square) averaging. This form of quadratic averaging or pre-filtering enables precise trend statements about the condition of the application.

In addition, a switching output with preset switching characteristics is included. This means a permanent monitoring of the vibration measured value is not required, because a necessary maintenance of the plant is signalized directly. The switching characteristics are provided with a preset response time. Thus, the output is only set if the vibration event lasts longer than this time. Short-time vibration events are hence filtered out. The simple mounting allows for commissioning in any application.

Dimensions



Technical Data

General specifications		
Туре		Vibration sensor
Measuring technology		MEMS
Series		Performance Line
Measured variable		Vibration velocity
Measurement range		
Vibration velocity	v- rms	0 16 mm/s
Measurement accuracy		±0.1 mm/s (calibration point: 90% of the measuring range; 159.2 Hz) Complies with the tolerance requirements of DIN ISO 2954 for measurement range greater than 8 mm/s
Cross-sensitivity		$<\!5\%$ of the partial lateral acceleration, which acts exactly 90° to the measuring axis

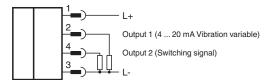


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Surge protection up to 2 kV Output 1 Output type analog output, current output of the vibration variable Output current 4 20 mA Load resistor ≤ 500 Ω Output 2 Council 1 Output 3 PNP Switching function Normally closed (NC) Operating current ≤ 100 mA Voltage drop < 2 V	Technical Data		
Averaging time for v-ms: 2 s Functional safety related parameters WITF, 329 a Mission Time (Tu) 20 a Diagnesite Coverage (CC) 0% Electrical specifications Fusing external fuse is required: 1 A , fast acting , 30 V DC Operating voltage Up 18 30 V DC Current consumption Po max. 6.6 W Time delay before availability It 2 s from Siter is calculated intially with measurement data before they are available at the output. Surge protection Up to 2 kV Output 1 Output 1 Output type analog output, current output of the vibration variable Output type A 20 MA Output 1 Output type A 20 MA Output 2 Output type A 20 MA Output 1 Output protection PNP Output (PNP Out	Ereguency range		10 1000 Hz
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Connection type plug Housing material Stainless steel 1.4305 / AISI 303 Degree of protection IP66 / IP67 only in connected state Connector Threading M12 Number of pins 4 Mass approx. 100 g Dimensions Length 72.5 mm	Mechanical specifications		
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Dimensions Length 72.5 mm			
Length 72.5 mm			
S .			72.5 mm
	Diameter		23.8 mm

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Connection



Connection Assignment



Accessories

Accessories for this product can be found on the internet at www.pepperl-fuchs.com.

Installation

Further Documentation

The sensor manual is also available as detailed overall documentation. Among other things, installation, grounding concepts and mounting are described there in detail. You can access the manual via the product detail page at www.pepperl-fuchs.com.

The correct electrical connection and the selection of the appropriate grounding concept are crucial for malfunction-free operation of the sensor. For detailed information you may refer to the manual of the sensor.

Operation

Switching Characteristics

