

VSA101



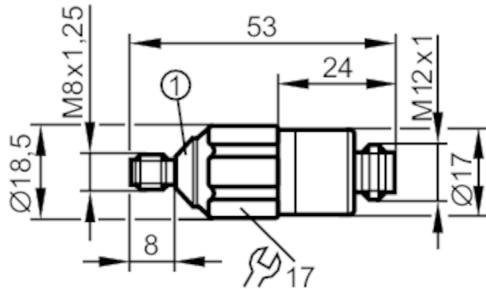
Acceleration sensor

VIBRATION SENSOR

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Alternative articles: VSA001

When selecting an alternative article and accessories please note that technical data may differ!



1 conical angle = 90°



Product characteristics

Measuring range of vibration [g] -3.3...3.3

Frequency range [Hz] 0...1000

Measuring principle capacitive

Application

Design for connection to external diagnostic electronics VSE

Application vibration detection

Electrical data

Operating voltage [V] 7.2...10.8 DC

Current consumption [mA] < 15

Min. insulation resistance [MΩ] 100; (500 V DC)

Protection class III

Reverse polarity protection yes

Sensor type microelectromechanical system (MEMS)

Outputs

Analogue current output [mA] 0...10

Max. load [Ω] 300

Measuring/setting range

Measuring range of vibration [g] -3.3...3.3

Frequency range [Hz] 0...1000

Measuring principle capacitive

Sensitivity [μ A/g] 1076

Number of measurement axes 1

Accuracy / deviations

Linearity deviation 0,2 %

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Operating conditions		
Ambient temperature	[°C]	-30...125
Note on ambient temperature		UL application: < 70 °C
Storage temperature	[°C]	-30...125
Protection		IP 67; IP 68; IP 69K
Tests / approvals		
EMC		EN 61000-6-2 EN 61000-6-3
Shock resistance		DIN EN 60068-2-27
Vibration resistance		DIN EN 60068-2-20
Mechanical data		
Weight	[g]	49
Type of mounting		M8 x 1,25
Materials		housing: stainless steel (316L/1.4404)
Tightening torque	[Nm]	8
Mechanische Überlastfestigkeit	[g]	500
Accessories		
Accessories (optional)		washers: 5, conical, E30115
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A; Maximum cable length: 250 m		
1		L+ (+9 V)
2		I out
3		GND
4		Test