

# VSA007



## Accelerometer

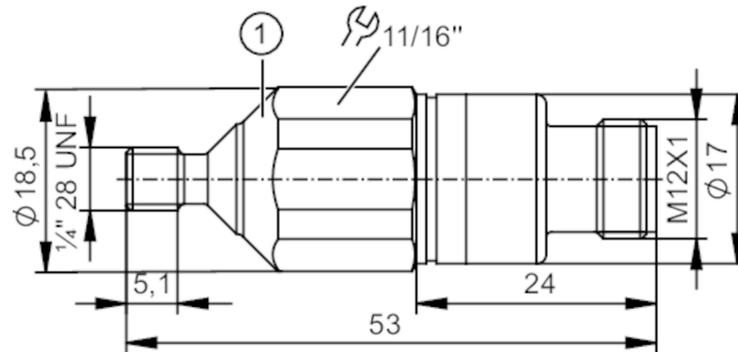
VIBRATION SENSOR

Article to be discontinued

Discontinuation date: 03/31/2026

Alternative articles: VSA001

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



### Product characteristics

Measuring range of vibration	[g]	-25...25
Frequency range	[Hz]	1...6000
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
Type of sensor		Microelectromechanical system (MEMS)

### Outputs

Analog current output	[mA]	0...10
Max. load	[Ω]	300

### Measuring/setting range

Measuring range of vibration	[g]	-25...25
Frequency range	[Hz]	1...6000
Measuring principle		capacitive
Sensitivity	[μA/g]	142
Number of measurement axes		1

### Accuracy / deviations

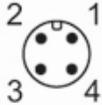
Linearity deviation		0,2 %
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Operating conditions		
Ambient temperature [°C]	-30...125	
Note on ambient temperature	cULus: < 85 °C	
Storage temperature [°C]	-30...125	
Protection	IP 67; IP 68; IP 69K	
Tests / approvals		
EMC	EN 61000-6-2	
	EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g 11 ms
		500 g 1 ms
Vibration resistance	DIN EN 60068-2-6	20 g / 10 ... 2000 Hz
UL approval	Ta	< 85 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	File number UL	E251902
Mechanical data		
Weight [g]	49.9	
Type of mounting	1/4"-28 UNF	
Material	housing: stainless steel (1.4404 / 316L)	
Tightening torque [Nm]	8	
Mechanische Überlastfestigkeit [g]	500	
Accessories		
Items supplied	washer, conical	
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	