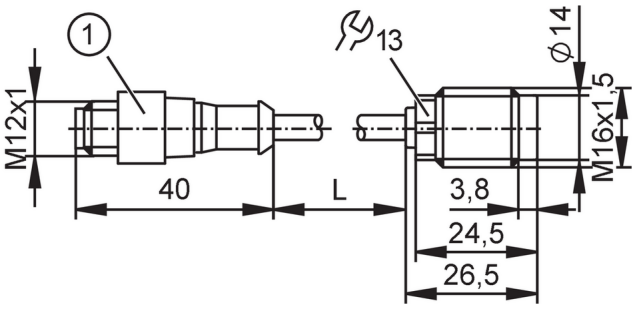
VSA002

Accelerometer

VIBRATION SENSOR



1 illustration (example)
L 760 mm

Product characteristics		
Measuring range of vibration	[g]	-25...25
Frequency range	[Hz]	1...10000
Measuring principle		capacitive
Application		
Special feature		Screened cable; Drag chain suitability
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]	-25...25
Frequency range	[Hz]	1...10000
Measuring principle		capacitive
Sensitivity	[µA/g]	142
Number of measurement axes		1
Accuracy / deviations		
Linearity deviation		0,2 %
Operating conditions		
Ambient temperature	[°C]	-30...85
Note on ambient temperature		cULus: < 80 °C
Storage temperature	[°C]	-30...85
Protection		IP 67

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Tests / approvals			
EMC		EN IEC 61000-6-2 2019	
		EN 61000-6-3	
Shock resistance		DIN EN 60068-2-27	50 g 11 ms
Vibration resistance		DIN EN 60068-2-20	20 g / 10 ... 2000 Hz
MTTF	[years]	2642	

Mechanical data			
Weight	[g]	87.5	
Type of mounting		M16 x 1,5	
Materials		housing: stainless steel (316L/1.4404)	
Tightening torque	[Nm]	8	
Mechanische Überlastfestigkeit	[g]	500	
Drag chain suitability		yes	
Drag chain suitability		bending radius for fixed installation	: min. 4 x cable diameter
		bending radius for flexible use	: min. 15 x cable diameter

Remarks	
Pack quantity	1 pcs.

Electrical connection

Cable: 0.76 m, PUR, Ø 5 mm, shielded; Maximum cable length: 250 m; screen (connected to the housing)

Connector: 1 x M12; coding: A; Contacts: 4; Maximum cable length: 250 m



1	L+ (+9 V)
2	I out
3	GND
4	Test