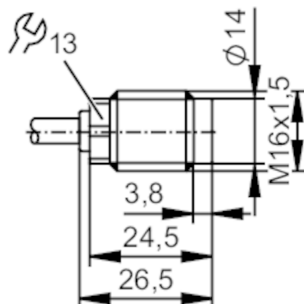


Acceleration sensor

VIBRATION SENSOR



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 %
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Operating conditions

Ambient temperature	[°C]	-30...85
Note on ambient temperature		cULus: < 80 °C
Storage temperature	[°C]	-30...85



Acceleration sensor

VIBRATION SENSOR

Protection		IP 67	
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]		257.5	
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: 6 m, PUR, Ø 5 mm, shielded; Maximum cable length: 250 m; drain wire connected to the housing; 4 x 0.25 mm²			
blue	GND		
brown	L+		
black	test		
white	OUT		
Screen	drain wire		