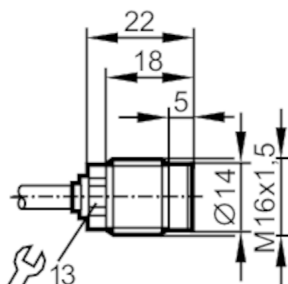


VSA006



Acceleration sensor

VIBRATION SENSOR



Product characteristics

Measuring range of vibration	[g]	-25...25
Frequency range	[Hz]	0...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; (cULus: 9 V DC)
Current consumption	[mA]	< 15
Min. insulation resistance	[MΩ]	100; (500V 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]	0...10000
Measuring principle		capacitive
Sensitivity	[μA/g]	142
Number of measurement axes		1

Accuracy / deviations

Linearity deviation		0,2 %
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VSA006



Acceleration sensor

VIBRATION SENSOR

Operating conditions		
Ambient temperature	[°C]	-30...85
Note on ambient temperature		cULus: < 80 °C
Storage temperature	[°C]	-30...85
Protection		IP 67
Tests / approvals		
EMC	EN 61000-6-2	
	EN 61000-6-3	
	EN 50178	
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 (1.4404 / 316L)
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 mm ²		
blue	GND	
brown	L+	
black	test	
white	OUT	
Screen	drain wire	