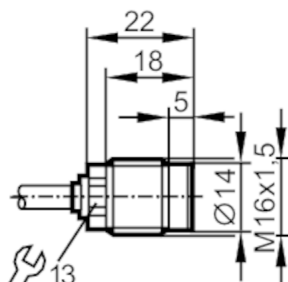


Acceleration sensor

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
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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 (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.
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Electrical connection

Cable: 0.8 m, PUR, Ø 5 mm, shielded; Maximum cable length: 250 m; screen (connected to the housing)

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



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