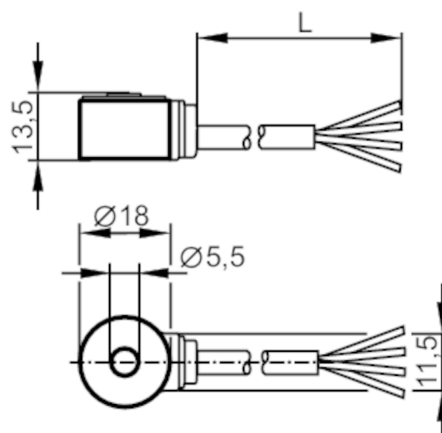


Acceleration sensor

VIBRATION SENSOR



Product characteristics

Measuring range of vibration [g]	-25...25
Frequency range [Hz]	1...10000
Measuring principle	capacitive

Application

Special feature	Halogen-free; 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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Acceleration sensor

VIBRATION SENSOR

Operating conditions		
Ambient temperature	[°C]	-20...80
Note on ambient temperature		cULus: < 80 °C
Storage temperature	[°C]	-20...80
Max. relative air humidity	[%]	80; (40 °C: 50 % non condensing)
Protection		IP 67
Tests / approvals		
EMC	EN 61000-6-2	
	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]	2660
Mechanical data		
Weight	[g]	323.5
Type of mounting		mounting screw
Materials		housing: stainless steel (316L/1.4404)
Tightening torque	[Nm]	5
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
Accessories		
Items supplied		head cap screw: 1 x M5 x 20, Torx 15
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 10 m, PUR, Halogen-free, Ø 4 mm, shielded; Maximum cable length: 250 m; drain wire connected to the housing; 4 x 0.14 mm²		
blue	GND	
black	test	
brown	L+	
white	Out	
Screen	drain wire	