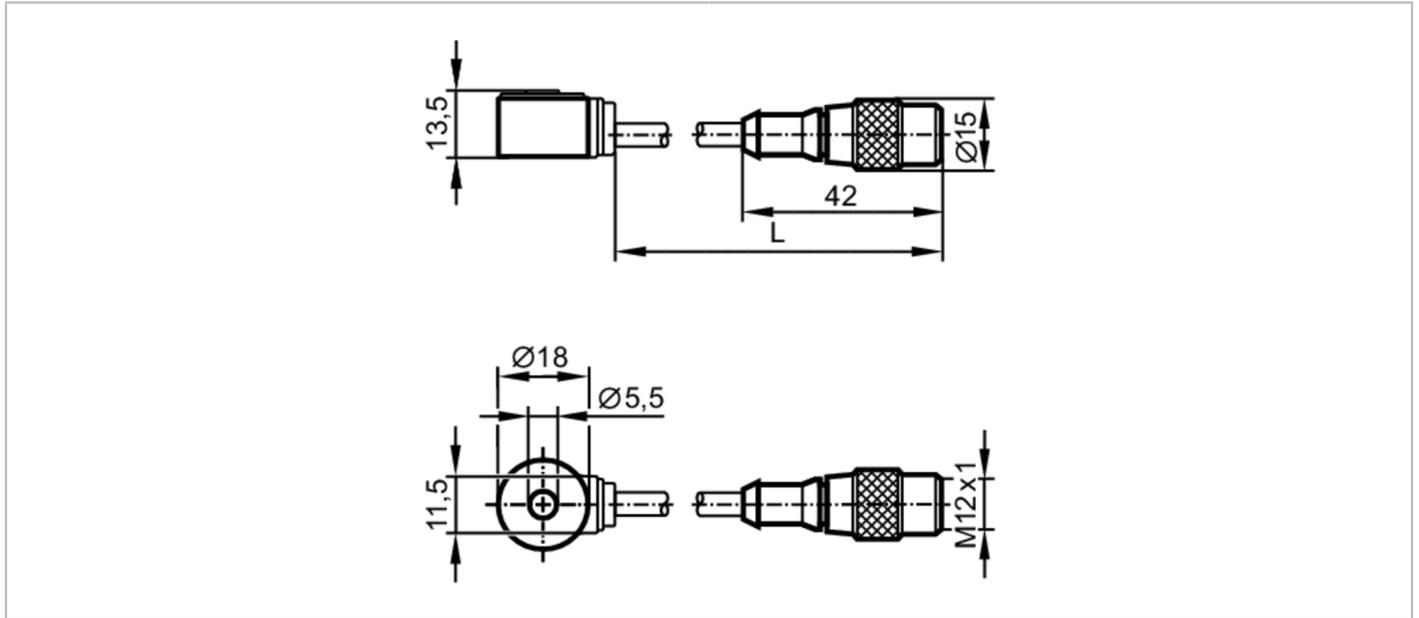


VSA008



Accelerometer

VIBRATION SENSOR



Product characteristics		
Measuring range of vibration	[g]	-25...25
Frequency range	[Hz]	1...10000
Measuring principle		capacitive
Application		
System		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
Type of sensor		Microelectromechanical system (MEMS)
Outputs		
Analog 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

VSA008



Accelerometer

VIBRATION SENSOR

Accuracy / deviations	
Linearity deviation	0,2 %
Operating conditions	
Ambient temperature [°C]	-30...80
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 60068-2-6 20 g / 10 ... 2000 Hz
UL approval	Ta 75 °C
	Enclosure type Type 1
	voltage supply Limited Voltage/Current
	File number UL E251902
Mechanical data	
Weight [g]	64.2
Type of mounting	mounting screw
Material	housing: stainless steel (1.4404 / 316L)
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 applications : min. 15 x cable diameter
Accessories	
Items supplied	head cap screw: 1 x (M5 x 20 mm), Torx 15
Remarks	
Pack quantity	1 pcs.
Electrical connection - plug	
Cable: 0.5 m, PUR, screened; Maximum cable length: 250 m; 4 x 0.14 mm ²	
Connector: M12; coding: A	
	
blue	GND
black	test
brown	L+
white	Out