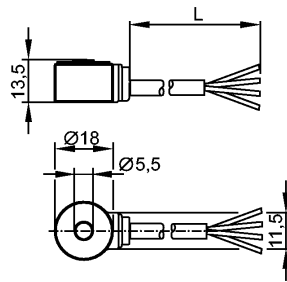


VSA004

VIBRATION SENSOR

Diagnostic systems



Product characteristics

Accelerometer	
VSA	
Cable	
for connection to external diagnostic electronics type VSE	

Application

Application	Vibration detection up to ± 25 g
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Electrical data

Operating voltage [V]	9 DC
Current consumption [mA]	< 15
Protection class	III

Outputs

analog	
current output [mA]	0...10

Measuring / setting range

Measuring principle	capacitive
Measuring range [g]	± 25
Frequency range [Hz]	0...10000

Accuracy / deviations

Linearity	0.2 %
Sensitivity [mg/ $\sqrt{\text{Hz}}$]	0.2

Environment

Ambient temperature [°C]	-30...100, for UL applications: max. 80 °C
Contact temperature [°C]	-20...80
Protection	IP 67

Tests / approvals

EMC	EN 61000-6-2 EN 61000-6-3 EN 50178
MTTF [Years]	2661

Mechanical data

Type of sensor	Microelectromechanical system (MEMS)
Number of measurement axes	1
Mechanical overload resistance [g]	500
Drag chain suitability	Bending radius for flexible applications: min. 10 x cable diameter
Max. length of the sensor cable [m]	250



VSA004

VIBRATION SENSOR

Diagnostic systems

Housing materials	housing: stainless steel 316L / 1.4404
Type of mounting	Montageschraube
Weight [kg]	0.12

Electrical connection

Connection	PUR cable / 3 m; 4 x 0.14 mm ² ; drain wire applied to the housing
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Wiring

blue: GND
 black: test
 brown: L+
 white: Out
 screen: drain wire

Accessories

Accessories (included)	1 mounting screw (Torx cylinder screw no. 15, M5 x 20)
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Remarks

Pack quantity [piece]	1
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