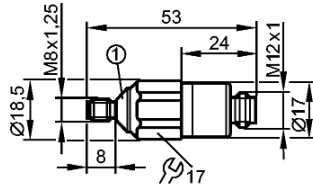


VSA001

VIBRATION SENSOR

Diagnostic systems



1: conical angle = 90°

Made in Germany



Product characteristics

Vibration sensor
VSA
Connector
For connection to external diagnostic electronics

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

analogue	
current output [mA]	0...10

Measuring / setting range

Measuring principle	capacitive
Measuring range [g]	± 25
Frequency range [Hz]	0...6000

Accuracy / deviations

Sensitivity [mg/√Hz]	0.2
Linearity	0.2 %

Environment

Ambient temperature [°C]	-30...125
Protection	IP 68 / IP 69K

Tests / approvals

EMC	EN 61000-6-2 EN 61000-6-3 EN 50178
MTTF [Years]	3338

Mechanical data

Type of sensor	micromechanical accelerometer
Number of measurement axes	1
Mechanical overload resistance [g]	500
Max. length of the sensor cable [m]	250
Housing materials	stainless steel 316L / 1.4404
Weight [kg]	0.048

Electrical connection

**VSA001**

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Connection	M12 connector
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Wiring

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

**Accessories**

Accessories (optional)	conical washer E30115 (5 pcs.)
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Remarks

Pack quantity	[piece]	1
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