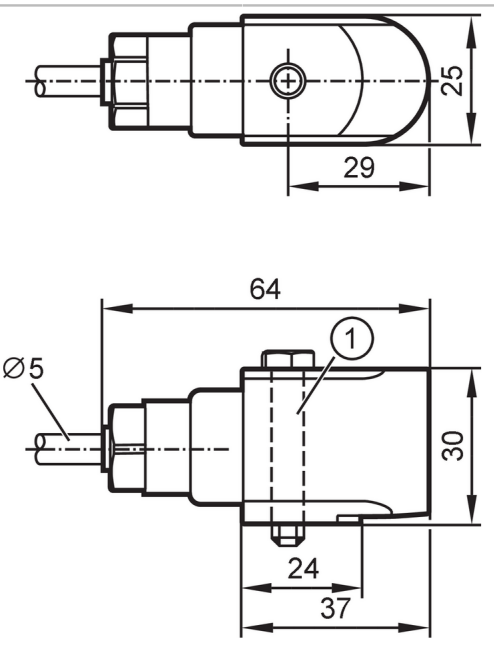
VSP004

Accelerometer

VIBRATION SENSOR SUBMERSIBLE

phase-out article

Alternative articles: VSP110
When selecting an alternative article and accessories please note that technical data may differ!



1 M8 x 1.25

Product characteristics		
Measuring range of vibration	[g]	-80...80; (-50...50 g when connected to a VSE)
Frequency range	[Hz]	1.5...12000
Measuring principle		piezoelectric
Communication interface		IEPE
Application		
Special feature		Screened cable
Design		for connection to external diagnostic electronics VSE
Electrical data		
Bias voltage DC	[V]	10...12
Current consumption	[mA]	0.5...8
Min. insulation resistance	[MΩ]	100; (500 V DC)
Reverse polarity protection		yes
Measuring/setting range		
Measuring range of vibration	[g]	-80...80; (-50...50 g when connected to a VSE)
Frequency range	[Hz]	1.5...12000
Measuring principle		piezoelectric
Noise density	[mg]	0.1
Max. transverse sensitivity	[%]	5
Minimum measuring time	[s]	2

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Number of measurement axes		1
Accuracy / deviations		
Accuracy		± 10 %
Measuring sensitivity		100 mV/g
Interfaces		
Communication interface		IEPE
Operating conditions		
Ambient temperature	[°C]	-50...150
Storage temperature	[°C]	-20...80
Max. relative air humidity	[%]	80; (50 °C; 50 % non condensing)
Protection		IP 68; (water-proof up to 100 m 10 bar)
Tests / approvals		
EMC		EN 61326-1 : 2013
Shock resistance		EN 61326-1 : 2013
Mechanical data		
Weight	[g]	1892
Housing		rectangular
Type of mounting		M8 x 1,25
Dimensions	[mm]	30 x 25 x 64
Materials		housing: stainless steel
Tightening torque	[Nm]	8
Remarks		
Pack quantity		1 pcs.
Electrical connection		

Cable: 25 m, PTFE coated, blue, shielded

white	IEPE +
black	IEPE -
screen	drain wire