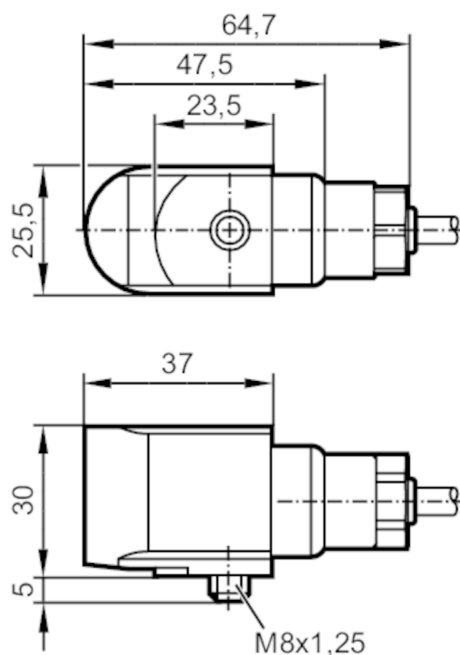


VSP02A



Acceleration sensor

VIBRATION SENSOR ATEX



Product characteristics

Measuring range of vibration	[g]	-50...50
Frequency range	[Hz]	2...10000
Measuring principle		piezoelectric

Application

Design	for connection to external diagnostic electronics VSExxx
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Electrical data

Switching amplifiers		connection to intrinsically safe supply isolators (Ex ia)
Operating voltage	[V]	10...12 DC
Current consumption	[mA]	0.5...8
Protection class		III
Reverse polarity protection		yes

Outputs

Max. load	[Ω]	200
Short-circuit protection		yes
Overload protection		yes

Measuring/setting range

Measuring range of vibration	[g]	-50...50
Frequency range	[Hz]	2...10000
Measuring principle		piezoelectric
Sensitivity	[mV/g]	100
Noise density	[mg]	0.1
Max. transverse sensitivity	[%]	5
Minimum measuring time	[s]	2

VSP02A



Acceleration sensor

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Number of measurement axes		1	
Operating conditions			
Ambient temperature	[°C]	-55...90	
Storage temperature	[°C]	-55...90	
Protection		IP 68; (1D application: IP 65)	
Tests / approvals			
Approval		Baseefa12ATEX0247; IECEx BAS 12.0132	
ATEX marking		 I M1 Ex ia I Ma (-55°C < Ta < +90°C)	
EMC		EN 61000-6-2	
		EN 61000-6-4	
Shock resistance			5000 g
Mechanical data			
Weight	[g]	669	
Type of mounting		M8 x 1,25	
Dimensions	[mm]	30 x 25.5 x 64.7	
Materials		housing: stainless steel	
Tightening torque	[Nm]	8	
Accessories			
Accessories (optional)		Safety barrier, ZB0633	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			
Cable: 10 m, PUR			
white	IEPE +		
black	IEPE -		
screen	drain wire		