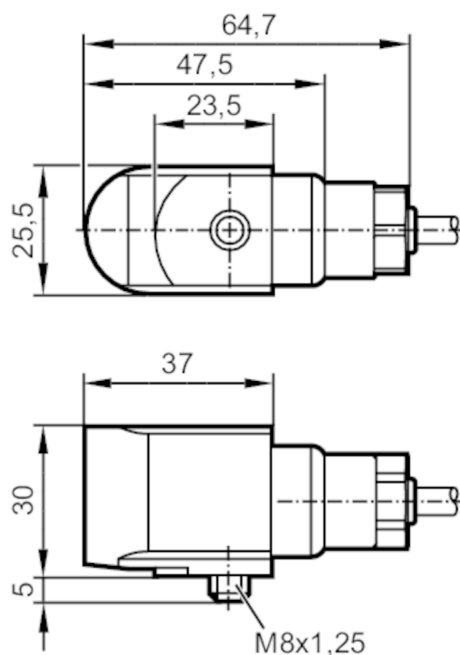


VSP01A



Acceleration sensor

VIBRATION SENSOR ATEX



Product characteristics

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

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
Max. transverse sensitivity	[%]	5
Minimum measuring time	[s]	2
Number of measurement axes		1

Operating conditions

Ambient temperature	[°C]	-55...90
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VSP01A



Acceleration sensor

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Protection	IP 68; (1D application: IP 65)	
Tests / approvals		
Approval	Baseefa12ATEX0248X; IECEx BAS 12.0133 X	
ATEX marking	Ⓔ II 1G Ex ia IIC T4 Ga (-55°C < Ta < +90°C)	
	Ⓔ II 1D Ex ia IIIC T110°C IP65 Da (-55°C < Ta < +90°C)	
	Ⓔ II 1G Ex ia IIC T6 Ga (-55°C < Ta < +60°C)	
	Ⓔ II 1D Ex ia IIIC T80°C IP65 Da (-55°C < Ta < +60°C)	
EMC	EN 61000-6-2	2005
	EN 61000-6-4	2007
Shock resistance	5000 g	
Mechanical data		
Weight [g]	668.5	
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	Sensor supply / signal	
black	0 V	
screen	drain wire	