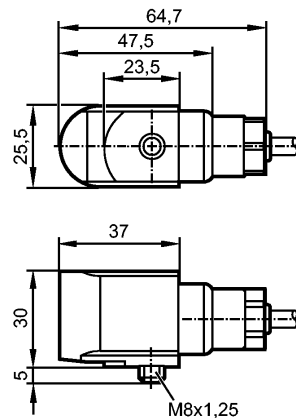


VSP01A

VIBRATION SENSOR ATEX

Diagnostic systems



Product characteristics

Accelerometer	
VSP	
Cable	
ATEX approval	
Group II, category 1D	
Group II, category 1G	
For connection to VSExxx type external diagnostic electronics via safety barrier	

Electrical data

Electrical design	Connection to intrinsically safe supply isolators (Ex ia)	
Operating voltage [V]		10...12 DC
Current consumption [mA]		0.5...8
Electrical isolation [V]		500
Protection class		III
Reverse polarity protection		yes

Outputs

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

Measuring / setting range

Sensitivity [mV/g]		100
Electrical noise [mg]		0.1
Transverse sensitivity [%]		< 5
Measuring range [g]		± 50
Frequency range [Hz]		2...10000
Minimum measuring time [s]		2

Environment

Ambient temperature [$^{\circ}\text{C}$]		-55...90
Protection		IP 68; for 1D applications: IP65

Tests / approvals

Approval		Baseefa12ATEX0248X IECEX BAS 12.0133 X
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VSP01A

VIBRATION SENSOR ATEX

Diagnostic systems

Marking of the unit	Ⓔ 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 EN 61000-6-4	2005 2007
Shock resistance	5000 g	
Mechanical data		
Number of measurement axes	1	
Mechanical overload resistance [g]	5000	
Housing materials	housing: stainless steel	
Type of mounting	M8 x 1.25	
Weight [kg]	0.676	
Electrical connection		
Connection	PUR cable / 10 m	
Wiring white: Sensor supply / signal black: 0 V screen: drain wire		
Accessories		
Accessories (optional)	Safety barrier ZB0633	
Remarks		
Pack quantity [piece]	1	