
CE **UK**
CA
Product characteristics

Measuring range of vibration [g]	-80...80; (-50...50 g when connected to a VSE)
Frequency range [Hz]	2...10000
Measuring principle	piezoelectric
Communication interface	IEPE

Application

Design	for connection to external diagnostic electronics VSE
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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]	2...10000
Measuring principle	piezoelectric
Noise density [mg]	0.1
Max. transverse sensitivity [%]	5
Minimum measuring time [s]	2
Number of measurement axes	1

Accuracy / deviations

Accuracy	± 5 %
Measuring sensitivity	100 mV/g

Interfaces

Communication interface	IEPE
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Operating conditions

Ambient temperature [°C]	-55...125
Storage temperature [°C]	-55...125

VSP001



Accelerometer

VIBRATION SENSOR

Protection

IP 67

Tests / approvals

EMC	EN 61326-1	: 2013
Shock resistance		5000 g
MTTF [years]		1142

Mechanical data

Weight [g]	73.5
Type of mounting	set screw
Material	housing: stainless steel
Tightening torque [Nm]	8

Accessories

Items supplied	Set screws
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Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Maximum cable length: 1000 m



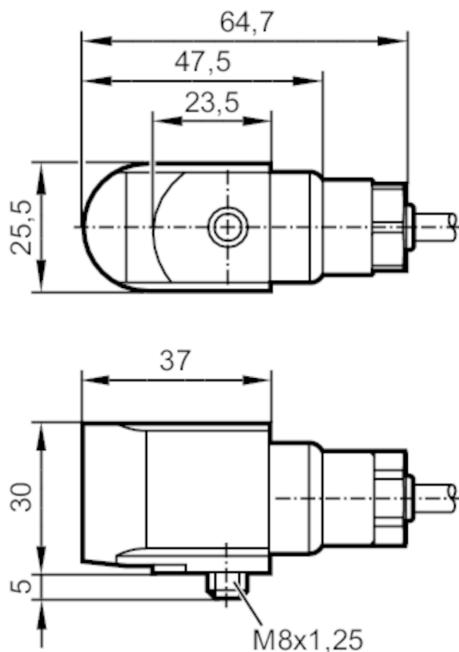
1	not used
2	IPEPE +
3	not used
4	IPEPE -

VSP01A



Accelerometer

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
Min. insulation resistance	[MΩ]	100; (500 V DC)
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

VSP01A



Accelerometer

VIBRATION SENSOR ATEX

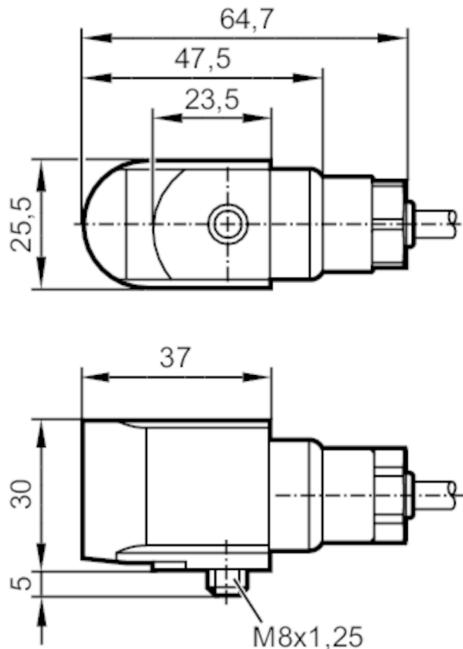
Minimum measuring time	[s]	2
Number of measurement axes		1
Operating conditions		
Ambient temperature	[°C]	-55...90
Storage temperature	[°C]	-55...90
Protection		IP 68; (water-proof up to: 100 m 10 bar; restrictions for 1D applications: IP 65)
Tests / approvals		
Approval		Baseefa12ATEX0248X; IECEx BAS 12.0133 X
ATEX marking		(-55°C < Ta < +90°C) (-55°C < Ta < +90°C) (-55°C < Ta < +60°C) (-55°C < Ta < +60°C)
EMC	EN 61000-6-2	2005
	EN 61000-6-4	2007
Shock resistance		5000 g
Mechanical data		
Weight	[g]	778.3
Type of mounting		M8 x 1,25
Dimensions	[mm]	30 x 25.5 x 64.7
Material		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	

VSP02A



Accelerometer

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



Accelerometer

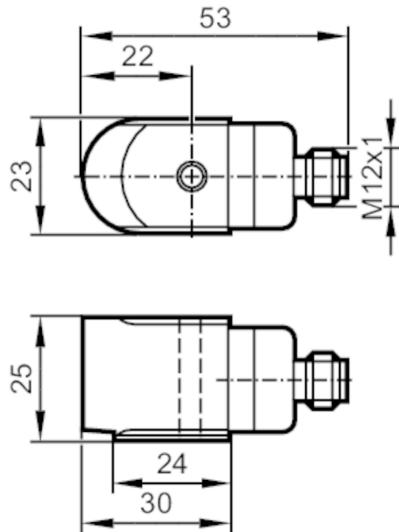
VIBRATION SENSOR ATEX

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

VSP003

Accelerometer

VIBRATION SENSOR



CE UK CA

Product characteristics

Measuring range of vibration	[g]	-80...80; (-50...50 g when connected to a VSE)
Frequency range	[Hz]	1.5...16000
Measuring principle		piezoelectric
Communication interface		IEPE

Application

Design	for connection to external diagnostic electronics VSE
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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...16000
Measuring principle		piezoelectric
Noise density	[mg]	0.1
Max. transverse sensitivity	[%]	5
Minimum measuring time	[s]	1
Number of measurement axes		1

Accuracy / deviations

Accuracy		± 10 %
Measuring sensitivity		100 mV/g

Interfaces

Communication interface		IEPE
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Accelerometer

VIBRATION SENSOR

Operating conditions

Ambient temperature	[°C]	-55...130
Storage temperature	[°C]	-55...130
Protection		IP 67

Tests / approvals

EMC	EN 61326-1	: 2013
Shock resistance	EN 61326-1	: 2013
MTTF	[years]	1142

Mechanical data

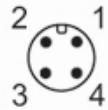
Weight	[g]	135
Type of mounting		M8 x 1,25
Material		housing: stainless steel
Tightening torque	[Nm]	8

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



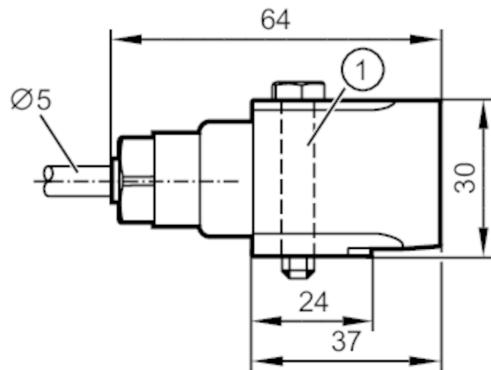
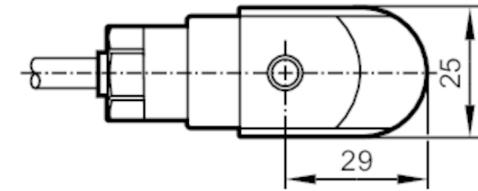
1	not used
2	IEPE +
3	not used
4	IEPE -

VSP004



Accelerometer

VIBRATION SENSOR SUBMERSIBLE



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

System	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 [$M\Omega$]	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
Number of measurement axes	1

Accuracy / deviations

Accuracy	$\pm 10\%$
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VSP004



Accelerometer

VIBRATION SENSOR SUBMERSIBLE

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
Material		housing: stainless steel
Tightening torque	[Nm]	8
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 25 m, PTFE coated, blue, screened		
white	IEPE +	
black	IEPE -	
screen	drain wire	