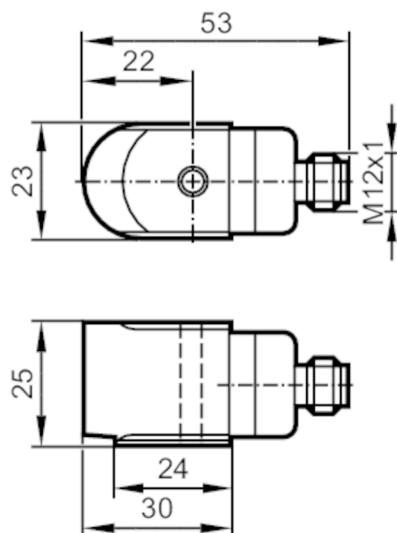




Acceleration sensor

VIBRATION SENSOR



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
--------	---

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
-------------------------	------

VSP003



Acceleration sensor

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
Materials		housing: stainless steel
Tightening torque	[Nm]	8
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A		
		
1	not used	
2	IEPE +	
3	not used	
4	IEPE -	