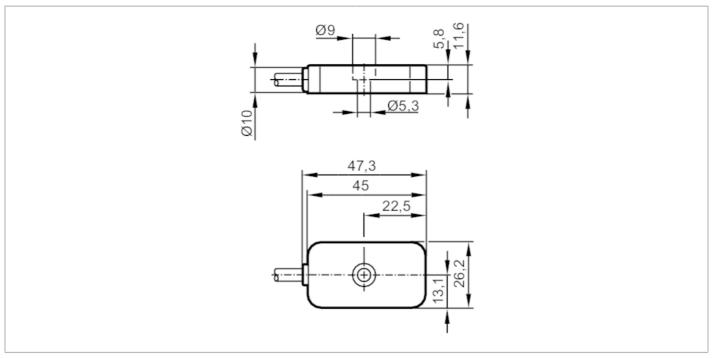
VSM103

Accelerometer

VIBRATION SENSOR





CE CA

Product characteristics				
Measuring range of vibration	[g]	-4040		
Frequency range	[Hz]	04500		
Measuring principle		capacitive		
Application				
System		screened cable; Drag chain suitability		
Electrical data				
Bias voltage DC	[V]	1116		
Operating current	[mA]	46		
Min. insulation resistance	[ΜΩ]	100; (500 V DC)		
Protection class		III		
Reverse polarity protection		yes		
		,		
Type of sensor		Microelectromechanical system (MEMS)		
Type of sensor	[g]			
Type of sensor Measuring/setting range	[g] [Hz]	Microelectromechanical system (MEMS)		
Type of sensor Measuring/setting range Measuring range of vibration		Microelectromechanical system (MEMS) -4040		
Type of sensor Measuring/setting range Measuring range of vibration Frequency range		Microelectromechanical system (MEMS) -4040 04500		
Type of sensor Measuring/setting range Measuring range of vibration Frequency range Measuring principle	[Hz]	Microelectromechanical system (MEMS) -4040 04500 capacitive		
Type of sensor Measuring/setting range Measuring range of vibration Frequency range Measuring principle Max. transverse sensitivity Number of measurement	[Hz]	Microelectromechanical system (MEMS) -4040 04500 capacitive 5		
Type of sensor Measuring/setting range Measuring range of vibration Frequency range Measuring principle Max. transverse sensitivity Number of measurement axes	[Hz]	Microelectromechanical system (MEMS) -4040 04500 capacitive 5		
Type of sensor Measuring/setting range Measuring range of vibration Frequency range Measuring principle Max. transverse sensitivity Number of measurement axes Accuracy / deviations	[Hz]	Microelectromechanical system (MEMS) -4040 04500 capacitive 5 3		

VSM103

Accelerometer

VIBRATION SENSOR



[% of the span]

	' '					
Operating conditions						
Ambient temperature	[°C]	-3085				
Storage temperature	[°C]	-30100				
Protection		IP 67; IP 68; IP 69K				
Tests / approvals						
EMC		DIN EN 61000-6-2				
		DIN EN 61000-6-3				
Shock resistance		DIN EN 60068-2-27	50 g 11 ms			
Vibration resistance		DIN EN 60068-2-6	20 g / 103000 Hz			
MTTF	[years]	529				
Mechanical data						
Weight	[g]	105.6				
Type of mounting		mounting screw				
Dimensions	[mm]	26.2 x 47.3 x 11.6				
Material		housing: stainless steel (1.4404 / 444)				
Tightening torque	[Nm]	3.5				
Drag chain suitability		yes				
Drag chain suitability		Bending radius for flexible applications	min. 10 x cable diameter			
		Bending radius for fixed installation	min. 4 x cable diameter			
Accessories						
Items supplied		socket head screw: 1 x M5 x 12				
Remarks						
Pack quantity		1 pcs.				
Electrical connection						

Cable: 0.3 m, PUR, Ø 4.9 mm, screened; Maximum cable length: 250 m; screen (connected to the housing); 5 x 0.14 mm²

Electrical connection - M12 connector



1	brown = IEPE X	
2	white = IEPE Z	
3	blue = GND	
4	black = self-test	
5	grey = IEPE Y	