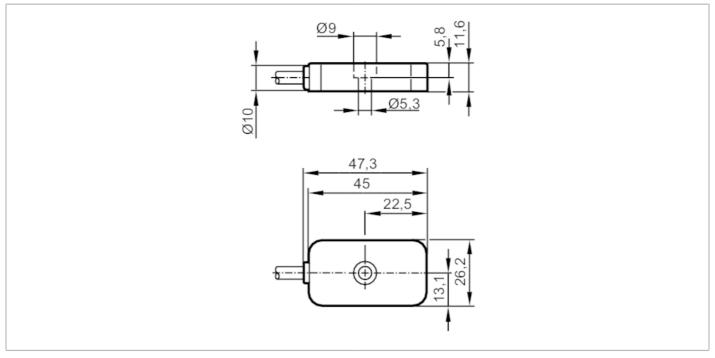
VSM103

Acceleration sensor

VIBRATION SENSOR





CE CA

Product characteristics			
Measuring range of vibration	[g]	-4040	
Frequency range	[Hz]	04500	
Measuring principle		capacitive	
Application			
Special feature		Screened cable; Drag chain suitability	
Electrical data			
Bias voltage DC	[V]	1116	
Operating current	[mA]	46	
Min. insulation resistance	[MΩ]	100; (500 V DC)	
Protection class		III	
Reverse polarity protection		yes	
Sensor type		microelectromechanical system (MEMS)	
Measuring/setting range			
weasuring/setting range			
Measuring range of vibration	[g]	-4040	
	[g] [Hz]	-4040 04500	
Measuring range of vibration			
Measuring range of vibration Frequency range		04500	
Measuring range of vibration Frequency range Measuring principle	[Hz]	04500 capacitive	
Measuring range of vibration Frequency range Measuring principle Max. transverse sensitivity Number of measurement	[Hz]	04500 capacitive 5	
Measuring range of vibration Frequency range Measuring principle Max. transverse sensitivity Number of measurement axes	[Hz]	04500 capacitive 5	
Measuring range of vibration Frequency range Measuring principle Max. transverse sensitivity Number of measurement axes Accuracy / deviations	[Hz]	04500 capacitive 5 3 03 kHz: +/- 10 %	

VSM103

Acceleration sensor





[% of the span]

	1 3				
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			
Materials		housing: stainless steel (444/1.4404)			
Tightening torque	[Nm]	3.5			
Drag chain suitability		yes			
Drag chain suitability		bending radius for flexible use	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					
0 11 00 010 710					

Cable: 0.3 m, PUR, Ø 4.9 mm, shielded; 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