



Product: Vibration Sensor for Predictive Maintenance

Technical Specification

v0.1

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1 Overview

Vibration sensor is measuring acceleration of object in interest. Based on measured accelerations we extract vibration frequency and amplitude using signal processing techniques. This data is passed to the remote server via CAN Bus where even more complicated signal processing can be used to determine any deviations from normal operation.

Multiple sensors can be connected into the network to monitor multiple locations of the object in interest.

2 Electrical Specification

2.1 Power Supply

Description	min.	typ.	max	Unit
Supply Voltage	+6		+36	V DC
Current Consumption @+12.5V		TBD		mA
Overvoltage protection		TBD		V

2.2 Accelerometer

Description	min	typ	max	Unit
Number of axis	0		3	pcs
Frequency Response	0		6	kHz
Measurement Acceleration Range			±16	g
Sensitivity @ ±2g		0,061		mg

2.3 Physical Interfaces

Description	min	typ	max	Unit
CAN Bus			1	pcs

2.4 Environment

Description	min	typ	max	Unit
Dimensions	48x72x17mm			
Operating temperature	-40		+105	°C
Environment Protection			IP68	

3 Mechanical Dimensions

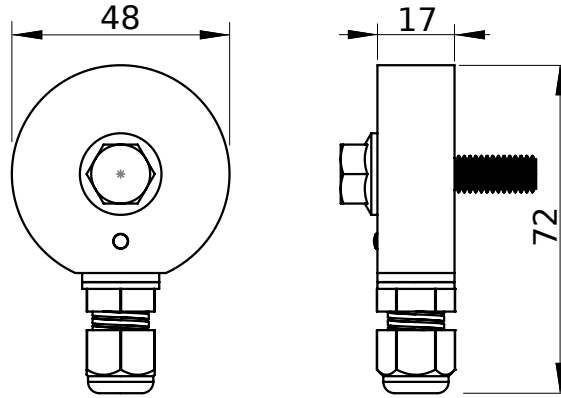


Figure 3.1: Vibration Sensor Mechanical Dimensions.