

APV-SEB Series

Integrated Vibration Sensor



Description

Made for measuring vibrations under challenging conditions where protection from humidity and temperature is required. The vibration buffer can output up to 10kHz from 3-axis of acceleration and gyroscope data and even includes an integrated temperature sensor. Potential applications include anti-vibration systems, machine leveling, safety monitoring and frequency response assessment in high-precision systems.

Geometry (including mounting style) and the digital interface can be customized project specific.

Mechanical Properties¹

Diameter	41	mm
Height	12	mm
Weight	50	g
Hardness	43	Shore A
Protection rating	67	IP

¹ Values for this specific buffer design

Electrical Properties

Digital interface	UART	Protocol
Output data rate	<10	kHz
IO voltage	3.3	V
Supply voltage	1.7-3.6	V

Operating Conditions

Reference temperature	25	°C
Operating temperature range	-20...120	°C
Humidity range (non-condensing)	0...95	%rH

Features

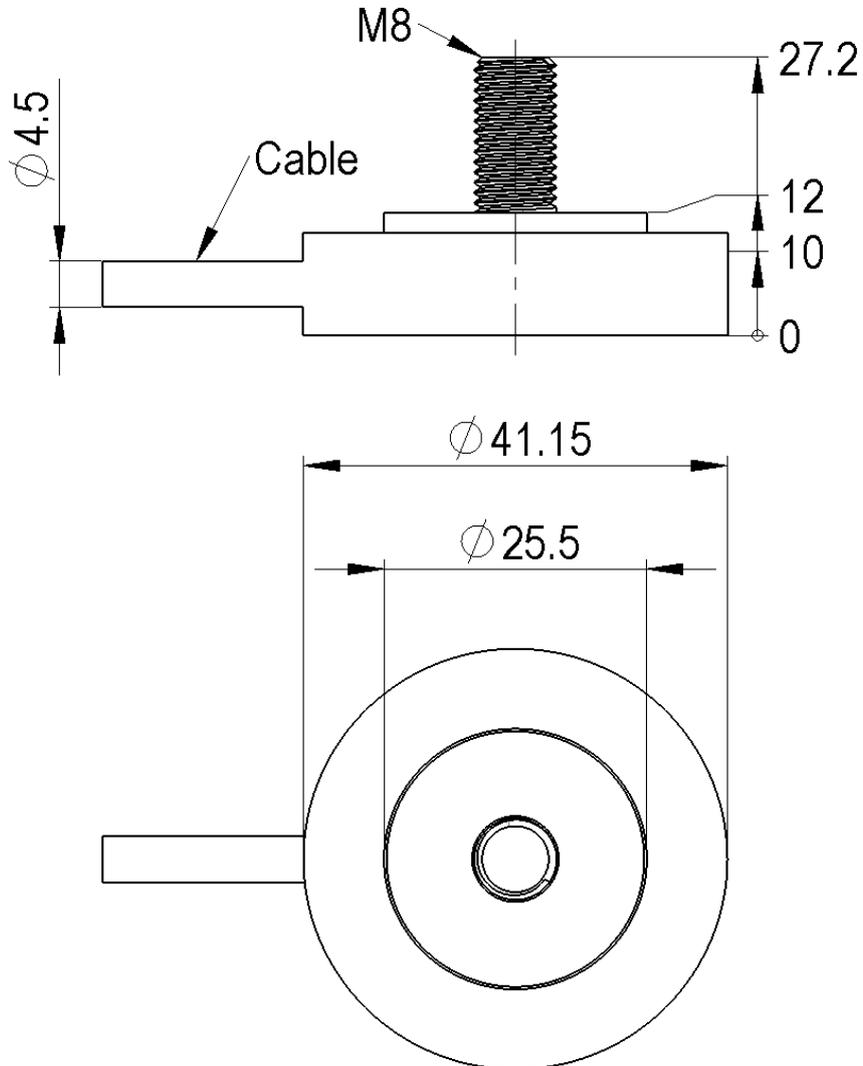
Accelerometer range	± 16	g
Gyroscope full scale range	± 2000	dps
Accelerometer and gyroscope resolution	16	bit
Temperature sensor accuracy	± 1	°C
Temperature sensor resolution	16	bit
Shock tolerance for 0.2ms	10'000	g

RFID (Option)

Protocol	EPC Class1 Gen2, ISO18000-6C	
Frequency (UHF)	860-960	MHz
Memory (EPC)	128	bits
Reading distance ²	Up to 30	cm

² Depends on reader. Through 2mm steel.

Dimensions



Additional Information

The UHF RFID Tag is an optional upgrade that can be used to store product specific information such as the mounting date and the part number. The ultra-high frequency range allows readers to access the memory at reading distances up to 30 centimetres through the steel and the elastomer. This distance depends on the antenna size and setup.

Ordering Information

APV-SEB-XX-XXXX-X

Accelerometer Range	
2G	±2g
4G	±4g
8G	±8g
16G	±16g

Gyroscope Range	
0015	±15.6dps
0031	±31.2dps
0062	±62.5dps
0125	±125dps
0250	±250dps
0500	±500dps
1000	±1000dps
2000	±2000dps

Supply Voltage	
0	1.8V
1	3.3V
2	5V



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