

DIGITAL INDUSTRIES SOFTWARE

Simcenter Anovis Sensor for industrial testing

Simcenter/AN-SEN-KS03-XXX/2023/20231204

Product Information Sheet

Summary

Industrial accelerometer KS03 is an acceleration sensor that is designed for vibration measurements at an automated production line. The design enables a sensor resonance of more than 10 kHz, making the KS03 a tactile sensor with one of the highest resonance frequencies and bandwidths currently available.

The sensor was developed together with the industry for tough industrial use. Therefore, in addition to the high bandwidth, it meets requirements for reliability, durability, and insensitivity to harsh operating conditions.

Together with Simcenter Anovis, the KS03 sensor can be calibrated by maintenance personnel on site within a few minutes. The sensor can remain in place in the test stand during this process.

BENEFITS

- Accelerometer for industrial use
- Automatic adaptation for high repeatability in production
- Short cycle times possible
- In-situ calibration by maintenance staff

FEATURES

- Industrial grade component for optimized reliability
- Standard ICP power supply
- Wide frequency range
- Easy adjustment at production line
- Adjustment of position with wide tolerance, no force supervision necessary
- Oil resistant

Variants:

The KS03 accelerometer is available in following variants:

AN-SEN-KS03-C10: Sensor with 10 mm ceramic tip with hardened steel ball on top. The ceramic tip allows electrical insulation up to 3 kV from the test item.

AN-SEN-KS03-A10: Sensor with 10 mm aluminum tip with hardened steel ball on top. The aluminum tip is perfect for ruggedized applications

AN-SEN-KS03-A20: Sensor with 20 mm aluminum tip with hardened steel ball on top.

AN-SEN-KS03-A30: Sensor with 30 mm aluminum tip with hardened steel ball on top

Technical data:

Power supply:	ICP
Sensitivity:	min. 0.72 mV/ms-2 typ. 1 mV/ms-2
Bandwidth:	typ. 8 kHz (+/- 3 dB)
Max. shock:	+/- 10.000 g pk
Temperature range:	-50 .. 120 °C
Cable connector:	TNC
Environmental: Front:	IP 64
Back:	IP 54

Penetrating oil does not hinder the functioning of the construction if measuring cable is oil protected.

