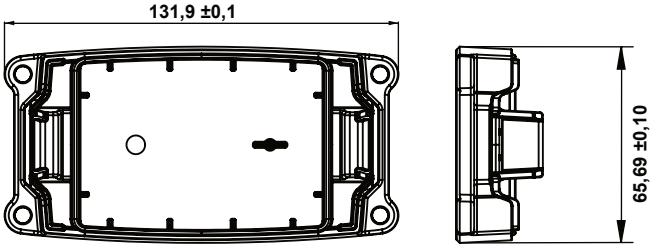
Data Sheet
Pollux Vibration Sensor G5N

Highlights

- Measuring range +/-2g to +/-16g with 16 bit resolution
- Typical battery life of 2 years
- Automatic detection of machine downtime and integrated operating hours counter
- integrated magnetic field sensor for monitoring of motors
- IP65, oil resistant (suitable for outdoor use)
- Shock and vibration resistant

General information



The Pollux Vibration Sensor is a standard sensor from the Pollux family of DELTA Systems and was developed for use on machines and devices in industrial environments. With the help of the sensor, vibrations from machines, bearings and processes can be recorded and wirelessly transmitted to a Pollux Edge or machine interface for analysis. In these interfaces, the recorded vibration data can be analyzed using machine learning and used with corresponding signals from a machine and for notification with maintenance instructions.

Technical data

Mechanical	
Protection class	IP67, oil and acidic resistent, shock resistant
Weight	approx. 180 g with battery (CR123A)
Dimensions (W/L/H)	approx. 66 / 132 / 35 [mm] (see technical drawing)
Operating temperature	-15°C to +80°C
Measuring system	
Measuring range	+/- 2 g to max +/- 250 g, triaxial
Accuracy	Standard: 0,5% with temperature compensation Optional: 0,25% / 0,1% with temperature compensation
Resolution	16 bit, max. 10 kHz sampling rate, integrated log memory
Temperature measurement	Integrated intrinsic temperature measurement: accuracy +/- 0.5°C
Pollux radio system	
Radio frequency	115/433/868/915 MHz depending on country of use, ISM bands: unlicensed Up to 1 Mbit/s data transmission rate (per node) Dynamic adaptation to radio environment Bidirectional, multi-channel, configuration-free and self-organizing radio network Network packets are CRC32 protected and data is encrypted using AES procedures, automatic avoidance of interference sources and other radio systems
Log memory	Integrated memory: expandable up to 2 GB, with real-time clock. Freely adjustable time clock
Power supply	Lithium Battery CR123A
Operating time	2 years battery life time,with 3 x 10 sec Measurments/Day
Additional options	Triaxial magnetic field sensor, external temperature measurement and additional external sensors connectable via connector

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