



Acceleration Sensor Type BAM53 for predictive maintenance and condition monitoring

Features

- Capacitive MEMS sensor, approval according to DIN EN 50155 especially suitable for transport technology
- Wide frequency range
- High precision due to low noise
- Measuring up to three axles possible
- Different connections available, with protective tubing on request

Due to the compact stainless steel design the acceleration sensor type BAM53 is very robust. It can be easily adapted to customer requirements: Dimensions and electrical connection are variable. It is possible to equip the BAM53 with a cable protection for applications in rough environments on request. The capacitive MEMS sensor enables monitoring at a lower frequency and has good temperature stability as well as good repeat accuracy. Furthermore, there are almost no measurement deviations even after a long-term using.

The acceleration sensor is perfect for your Retrofit solution: Integrated in our multi sensor, it can be combined with speed or temperature measurement in one housing, ideally suitable for condition monitoring.

Your advantages

- One sensor for different applications, e. g. wheelset bearing- and bogie monitoring. Use: inspection of bogie's condition as well as it detects derailment
- Ideal for predictive maintenance: condition monitoring enables planning your service and it allows early identification of the need for action. So you can reduce costs and time

Technical Data (extract)

Measuring range	1 ... 20,000 Hz
Output signals	2 outputs for each measuring channel Positive output 0...10 VDC Δ -g...+g Negative output 0...10 VDC Δ +g...-g =>Symmetrical output: -10...+10 VDC Δ -g...+g
Operating temperature	-40 ... +105 °C
Operating voltage	12 ... 30 VDC
Measuring range	+/- 50 g or +/- 100 g
Measuring principle	Capacitive MEMS sensor
Protection class	Housing: IEC 60529, IP66/IP68 Connections: Type X: IP66/IP68

