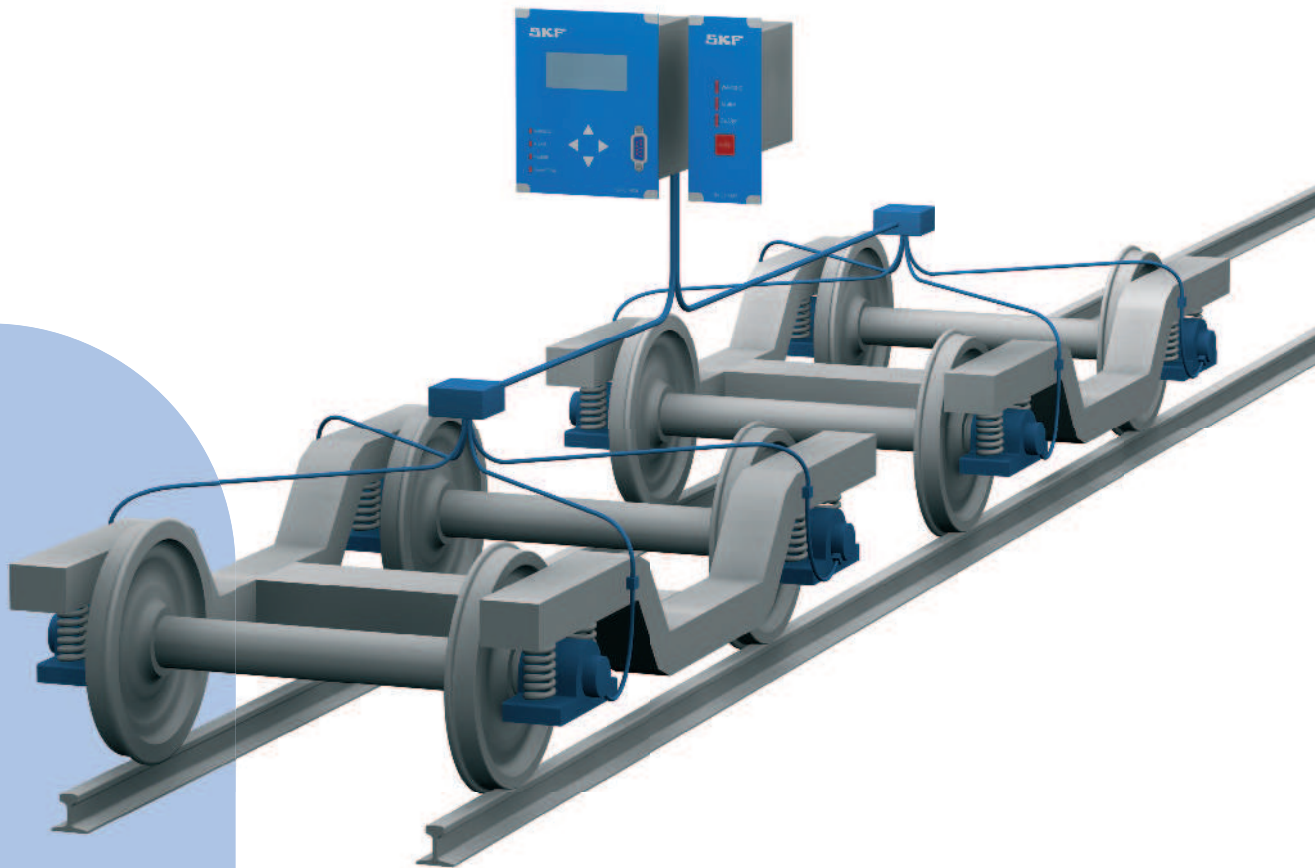


Temperature monitoring

On-board safety support systems for railways



Customer benefits

- increased reliability and safety
- continuous temperature monitoring and analysis
- event recorder and data buffering
- self-checking system
- adaptive alarm levels



The SKF Axletronic temperature monitoring system is a cost competitive on-board solution. It is used as safety support system for bearing temperature control for new train installations as well as for retrofitting. Main application areas are:

- electrical and diesel locomotives
- electrical and diesel multiple units
- mass transit vehicles

The monitoring system is easy to install in comparison to other systems. It is located entirely on the train to transmit warning and alarm messages.

The analogue temperature signals are converted to a digital format. From a dedicated smart box the signals are transmitted via CAN-bus to the main electronic unit of the system.

The main unit saves all signals and could command up to two signalling boxes for the driver's cabs through 4 analogue output channels.

The system continuously checks all sensors, cabling and electronics for any fault, signal interruptions, shortcuts or power failure as well as anomaly in wiring installation. Any malfunction generates an alarm. In the case of power failure, the system will automatically restart when the power returns.



SKF Axletronic temperature monitoring system.
Main unit (left) and drivers cab signalling box (right)

Technical features

- continuous temperature monitoring and analysis
- event recorder and data buffering in flash memory
- self-checking system and sensors signals
- compatible with PT1000 / NTC-10KΩ / NTC-3KΩ transducers
- adaptive alarm levels

Conformity

- EN50155 – Railway application. Electronic equipment used on rolling stock.
- EN50121 – Railway application. Electromagnetic compatibility.
- EN50125-1 – Railway application. Environmental conditions for equipment. Part 1: Equipment on board rolling stock.
- EN61373 / Cat 1 / Class B – Railway application. Rolling stock equipment – Shock and vibration tests



SKF Axletronic temperature monitoring system.
Bogie junction box

