

SKF Insight Rail

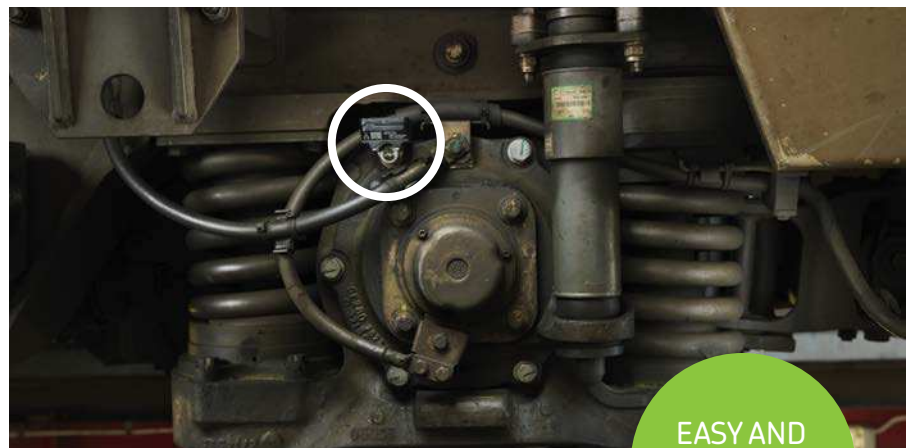
A wireless and self-powered Condition Monitoring System with an associated remote analysis service for passenger rail train bogies

Main features

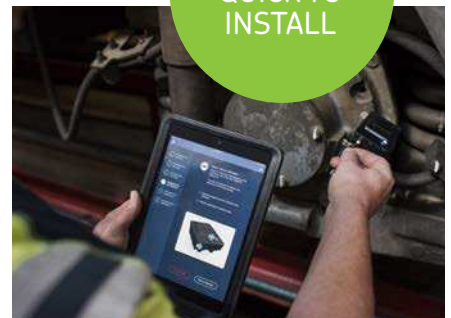
- Easy and quick to install
- Fully wireless
- No on-coach installation
- Certified for railway applications
- User friendly interface

Main benefits

- Eliminate failure-prone outliers in the field before they develop into an unplanned maintenance issue
- Optimize maintenance scheduling based on real conditions in the field
- Extend maintenance intervals significantly reducing the maintenance cost and life cycle cost (LCC)



EASY AND QUICK TO INSTALL



Measurements

- Acceleration 3 Hz – 10 kHz up to 60 G
- SKF Acceleration Enveloping
- Temperature
- Wheel Speed

Data Acquisition

- Configurable samples/FFT line resolution
- GPS/GNSS satellite positioning

Wireless Communication

- 3G radio communications: 900/2100 UMTS bands – Europe
- 2G radio communications: 900/1800 UMTS bands – Europe
- “Soft SIM” card pre-programmed with IoT data service

Physical

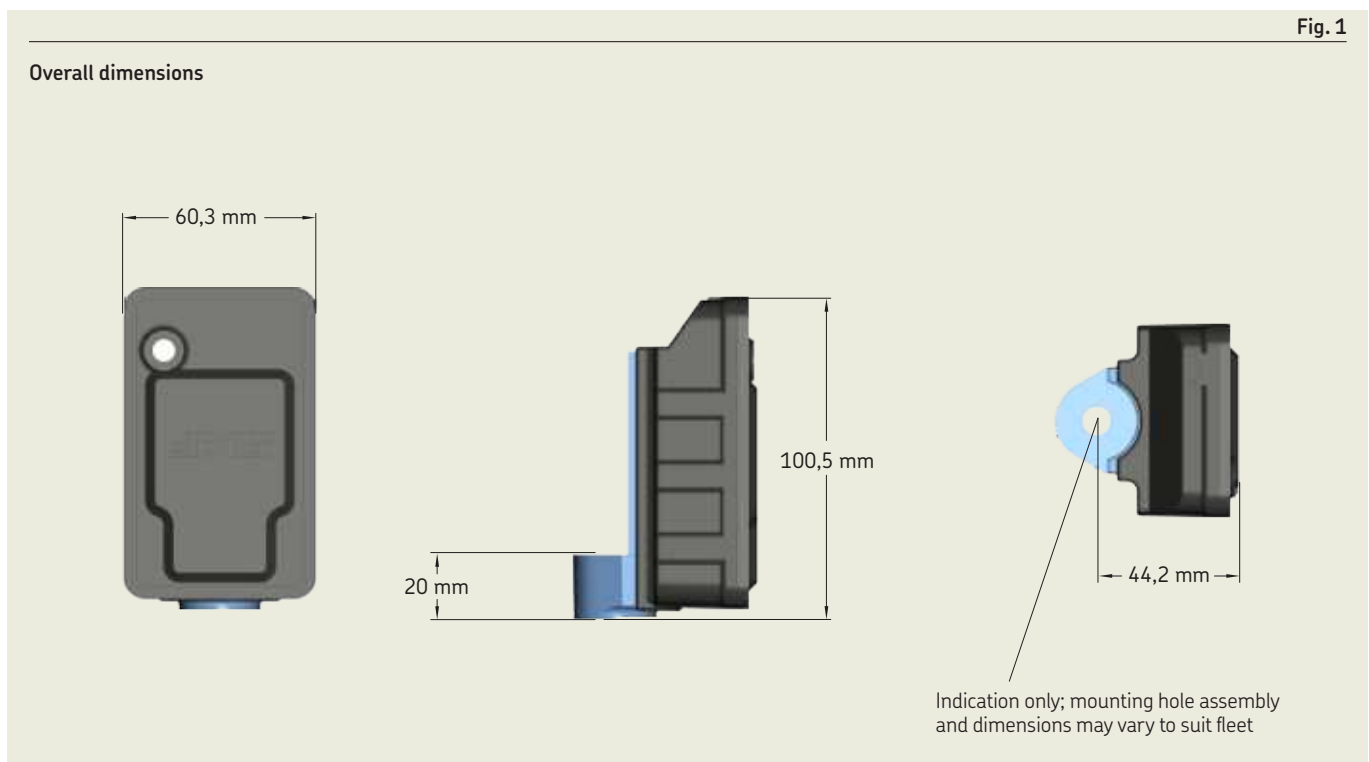
- Dimensions (**Fig. 1**)
- Direct mount to existing axlebox bolt-hole
- Case Material: rugged thermoplastic with alloy mounting base

Environmental

- Operating Temperature -40 °C to +85 °C
- Sealing: IP 66
- Compliant to Railway standards for vibration, temperature, shock, noise, humidity, salt mist, fire and smoke.

Power

- Lithium-thionyl chloride battery pack
- Battery life > 3 years based on typical measurement and upload cycle.



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