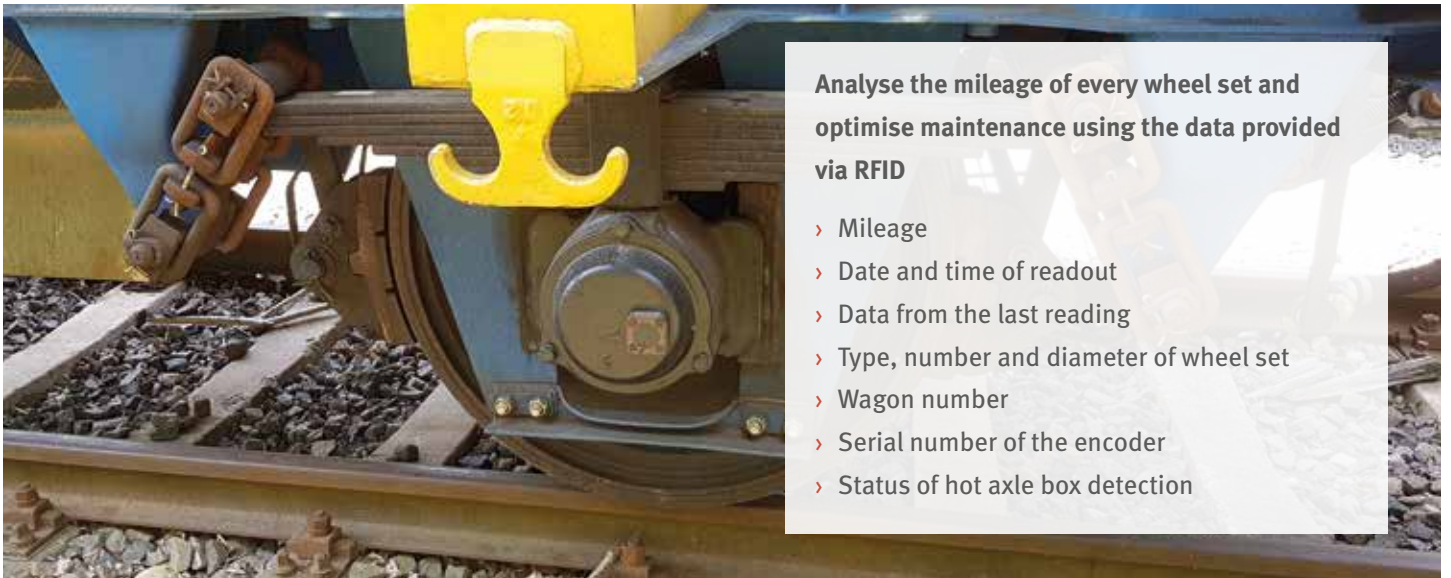


# ODOMETER

## Mileage acquisition for appropriate maintenance

The predictive maintenance of goods wagons is intended to minimise downtimes and increase availability. Because wear is dependent on usage time, the acquisition of mileage is useful and even required by law. Our energy self-sufficient odometers have been used successfully for more than 10 years. The measuring system consisting of a portable reader and the sensor offers significant advantages:

- › Can help to reduce the repair costs if wear parts are replaced depending on the mileage before consequential damage occurs.
- › Increases the vehicle availability because unexpected failures can be avoided.
- › Is free of operating costs because the system does not have any batteries and is wear-free in operation.
- › Data can be read and evaluated using a portable reader via RFID.
- › For goods wagon rental our solution allows transparent billing based on the actual mileage.



Analyse the mileage of every wheel set and optimise maintenance using the data provided via RFID

- › Mileage
- › Date and time of readout
- › Data from the last reading
- › Type, number and diameter of wheel set
- › Wagon number
- › Serial number of the encoder
- › Status of hot axle box detection

# ODOMETER

## *Self-powered mileage acquisition with RFID technology*

The mileage system is based on a self-powered incremental encoder that is assembled to the bearing cover. It obtains energy by induction from the rotational movement of a magnetic assembly mounted on the bearing's pressure plate. The self-powered operation allows the non-wired batteryless use in goods wagons.

The odometer saves the contactlessly acquired revolutions in an internal non-volatile memory. The measured values are read via RFID using a portable reader. The data can be transferred and further processed using the USB port or via WLAN.

Configurable wheel set ratings stored in the encoder allow the clear assignment and evaluation of the measured values. You can use this data to plan the maintenance intervals of each wagon in an ERP or maintenance system.



### **Designed for goods wagons**

- › Batteryless, maintenance-free operation
- › Tested according to DIN EN 50155, DIN EN 61373 and DIN EN 50121-3-2
- › Monitoring of temperature thresholds for hot axle box detection
- › Can be retrofitted to any axle
- › Safe storage of data even with very long service lives and without movement

**We will be happy to support you with our know-how in the mileage acquisition of goods wagons!**

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