
# UNIAC[2] AXLE COUNTING SYSTEM

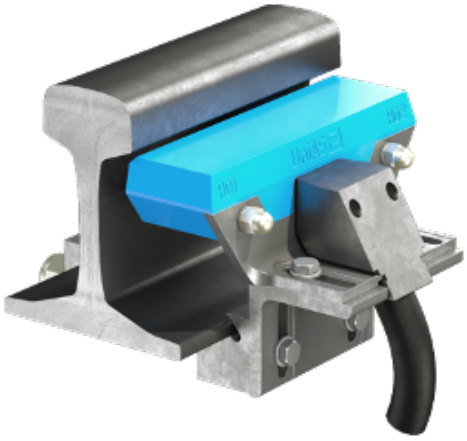
## Modern digital platform based system ensuring highest availability and reduced maintainability

### Description

Axle Counter Systems are becoming increasingly popular in the area of track vacancy systems with most rail operators having already installations of Axle Counter Systems or even fully switched to this modern and reliable technique of wheel detection.

There are many advantages of using axle counters in comparison to track circuits, for example, lower life cycle costs, higher reliability and better management of long sections, special functions and further benefits.

The system architecture allows both centralized and decentralized architectures. In all of those cases the communication with the subsequent signaling system can be realized by Relay, Optocoupler or a safe protocol interface.



### System advantages

- Easy, GUI-based configuration with Application Architect
- Modular system architecture
- Combined evaluation-, counting and communication module (less spare parts)
- 20 mA interface with the wheel sensors allows highest resistance against disturbances
- Relay, Optocoupler or safe protocol interface.
- 13 pre-configured Reset procedures
- Predefined basic parameter sets allow easy and fast configuration
- Most modern diagnostic possibilities supporting preventive maintenance approaches next to reactive ones

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## Additional description

The UniAC[2] axle counting system is split into two areas: Indoor and Outdoor Equipment. The indoor equipment is normally located in a signaling room (centralized architecture) or in decentralized locations along the track. The wheel sensor UniAS[2] detects all wheels entering or leaving a controlled counting section. Together with a modular and flexible mounting clamp, fitting most of the common rail profiles, it represents the outdoor equipment of the Axle Counting's System. During development high effort has been spent for already including a comprehensive and easy to use diagnostic tools. The recording of analogue signals without external data recorder is only one of the functions worth to mention.

## Technical description

- Up to four counting sections per AXM axle counting and Evaluation module
- Implemented hardware and software interfaces with possible simultaneous use
- Secure direction and occupancy information
- Speed information at each counting point
- A modular and freely scalable architecture (centralised/decentralised architecture)
- IP68 certified wheel sensor
- The use of the network infrastructure according to EN50159
- An increased temperature range (exterior equipment: +80°C to -40°C, interior equipment: +70°C to -30°C)
- Easy configuration using the Application Architect (AA)
- Modern diagnostics