UniAC[2]
AXLE COUNTING SYSTEM

Flexibly adaptable and configurable meeting highest possible levels of safety and reliability

General
The UniAC[2] axle counting system is based on a modular structure and therefore ensures flexible scalability. UniAC[2] can be based on a central structure (i.e. in a central signaling room for the whole railway station) or decentralized next to the tracks in order to shorten the cable length between the wheel sensor (the external equipment) and the axle counting system (the internal equipment).

Technical Facts
» Approval according to CENELEC SIL4 by TÜV-Süd in Braunschweig
» 0 km/h - 350 km/h
» -30°C – +70°C (internal equipment)
» 19 V DC – 72 V DC power supply

Benefits
» Easy and suitable configuration tool based on graphic user interface (Application Architect)
» Modular hardware structure
» Combined evaluation and counting module
» Relay, optical coupler or protocol interface
» 20 mA power supply of wheel sensor ensures highest possible resistance against disturbances
» 13 configured Reset-procedures
» Master Reset and counting point control
» Configurable basic parameter sets for easily and fast configuration of the system
» Modern diagnosis, including online storage of analogue signals

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PERFORMANCE FEATURES

Description
Beside the known features of an axle counting system the development of the system has also taken further functionalities into consideration. The UniAC[2] systems comes with the possibility of superimposing physical counting sections, with virtual counting sections. The virtual counting sections supervise the physical counting sections and in case of failure are able to automatically reset it. This procedure enables the operator to increase the availability of the axle counting system. Beside

The new generation of the axle counting system is able to measure speed of each counting point. Big attention has been paid on the development of a comprehensive and user-friendly diagnosis. Especially it needs to be pointed out that the analogue signals can be recorded without any additional loggers. This information can then be displayed on a dedicated web page for the customer or can be saved locally for future analysis.

Technical description

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<th>Feature</th>
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<tr>
<td>Evaluation of up to 4 counting sections per module</td>
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<td>Safe direction- and system information</td>
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<td>Speed information for each counting point available</td>
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<tr>
<td>Modular and free scalable architecture</td>
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<td>Network infrastructure based on EN 50159</td>
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<td>Increased temperature range</td>
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<td>Easy configuration via Application Architect</td>
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<td>Modern diagnostic system</td>
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