Axle Counting

Axle Counting System
ACS2000

Using open and universal hardware interfaces allows integration of the ACS2000 simply and reliably into a wide range of different applications, including interlockings, level crossings, signalling systems etc.

Information
Clear/occupied status (SIL 4)
Diagnostic data

Applications
Track vacancy detection
CBTC fallback
Level crossing protection
Switching point protection

Benefits
Extremely high availability
Low maintenance
Automated adjustment processes simplifying commissioning
Simple configuration via hardware
ACS2000

The system architecture of the Axle Counting System ACS2000 with one board for each counting head and one board for each track section simplifies configuration and commissioning. In particular the extremely high availability and low maintenance effort distinguishes the system from others. A large number of existing, preconfigured boards can be used to implement customer-specific requirements.

For reliable operation and cost-effective maintenance of the systems, Frauscher offers comprehensive diagnostic possibilities.

Technical Data

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<td><strong>Safety level</strong></td>
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| **Temperature** | Outdoor equipment: -40 °C to +85 °C ("outside" climatic class TX of EN 50125-3)  
Indoor equipment: -25 °C to +70 °C ("in cabinet" climatic class T2 of EN 50125-3) |
| **Humidity** | Outdoor equipment: 100%, IP68  
Indoor equipment: up to 100% (without condensation or ice formation for the entire temperature range) |
| **Electromagnetic compatibility** | EN 50121-4 |
| **Mechanical stress** | 3M2 according to EN 60721-3-3  
suitable for use in compact outdoor cabinets close to the track |
| **Speed** | 0 km/h (static) to 450 km/h |
| **Dimensions** | Format: 19” housing for 100 mm x 160 mm boards  
Width: board rack with 42 or 84 width units  
Height: 3 height units |
| **Power supply** | Voltage: +19 V DC to +72 V DC  
Power: approx. 4.5 W per counting head  
Isolation voltage: 1 500 V |