

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



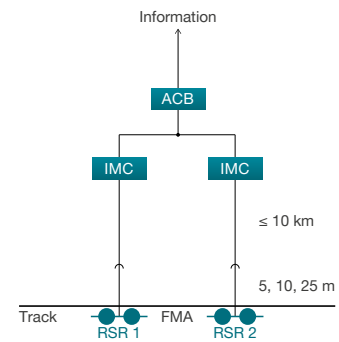
Benefits

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.



- ACB** Axle counting board
- IMC** Evaluation board
- FMA** Track section
- RSR** Wheel sensor

Technical Data

ACS2000

Interfaces	Universal hardware interfaces via optocoupler or relay interface
Safety level	SIL 4 (communication according to EM 50159, categorie 1)
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