



Axle Counting

Frauscher Advanced Counter FAdC®

Thanks to the software interface, the axle counter FAdC can be optimally integrated into higher-level systems. This provides the highest flexibility in design. Both system integrators and railroad operators benefit equally from significant advantages.



Information

- Clear/occupied status (SIL 4)
- Direction (SIL 4)
- Number of axles
- Speed
- Wheel diameter
- Diagnostic data



Applications

- Track vacancy detection
- CBTC fallback
- Grade crossing protection
- Switching point protection
- Yard Control Systems



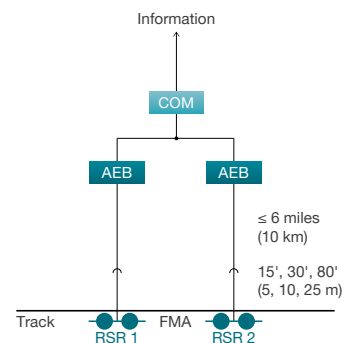
Benefits

- Simple and flexible configuration
- Software interface
- Flexible architecture
- Low maintenance
- Simple project management

FAdC®

Connection to a high-performance electronic interlocking is possible either via a vital, customer-specific interface or the Frauscher Safe Ethernet FSE protocol.

All processes – planning, engineering, configuration, diagnostics, maintenance and adaptation – are supported by innovative software tools. Software logic methods such as Supervisor Track Sections or Counting Head Control further increase system availability.



- COM** Communication board
- AEB** Evaluation board
- FMA** Track section
- RSR** Wheel sensor

Technical Data

FAdC®	
Interfaces	Vital, customer-specific protocol Frauscher Safe Ethernet FSE protocol and/or vital output via optocoupler or relay interface
Safety level	SIL 4 (communication according to EN 50159, category 2)
Temperature	Outdoor equipment: -40 °F to +185°F (-40 °C to +85 °C) ("outside" climatic class TX of EN 50125-3) Indoor equipment: -40 °F to +158°F (-40 °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 (static) to 280 mph (0 to 450 km/h)
Dimensions	Format: 19" housing for 4" (100 mm) x 7" (160 mm) boards Width: board rack with 42 or 84 width units Height: 3 height units
Power Supply	Voltage: +19 V DC bis +72 V DC Power: approx. 4.5 W per counting head Isolation voltage: 3,100 V