



Axle Counting

Frauscher Advanced Counter FAdC[®]i

The FAdCi is a particularly economical variant of the FAdC axle counter for special requirements such as shunting yards, industrial railway and public transport. The FAdCi offers all the advantages of the FAdC.



Information

- Clear/occupied status (SIL 3)
- Direction (SIL 3)
- Number of axles
- Speed
- Wheel diameter
- Diagnostic data



Applications

- Track vacancy detection
- Level crossing protection
- Switching point protection



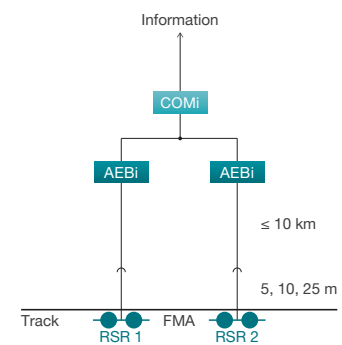
Benefits

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

FAdC[®]i

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 – from planning, engineering and configuration, to diagnostics, maintenance and adaptation – are supported by innovative software tools. By means of logic application, methods such as Supervisor Track Section or Counting Head Control further increase system availability.



COMi Communication board
AEBi Evaluation board
FMA Track section
RSR Wheel sensor

Technical Data

FAdC [®] i	
Interfaces	Vital, customer-specific protocol Frauscher Safe Ethernet FSE protocol and/or vital output via optocoupler or relay interface
Safety level	SIL 3 (communication according to EN 50159, category 2)
Temperature	Outdoor equipment: -40 °C to +85 °C ("outside" climatic class TX of EN 50125-3) Indoor equipment: -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 km/h (static) to 80 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 bis +72 V DC Power: approx. 4.5 W per counting head Isolation voltage: 3 100 V