

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
- Grade crossing protection
- Switching point protection



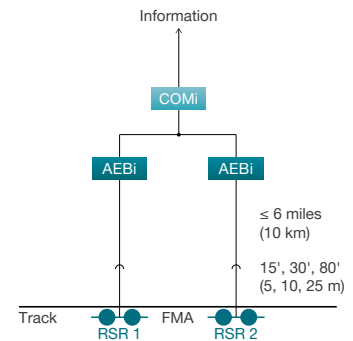
Benefits

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

FAdC[®]i

Connection to a high-performance electronic interlocking is possible 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.



- 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 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 50 mph (0 to 80 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