Axle Counting

Frauscher Track Vacancy System FTVS

The Frauscher Track Vacancy System FTVS is an axle counting solution based on the Wheel Sensor RSR110. The FTVS was developed for use in non-vital train detection, such as in yard applications, industrial facilities, ports and more.

Information

Clear / occupied status (SIL 0)

Diagnostics

Applications

Track vacancy detection

Switch point protection

Axle counting for non-vital applications in rail yards, ports, or industrial facilities

Used with end of track warning system

Used with yard gate controls

Benefits

Low maintenance

Quick and easy install

Operates in harsh environments

High compatibility with trains, rolling stock, any traction power and track circuits

Compact design

FTVS

The components of the Frauscher Track Vacancy System FTVS are the Wheel Sensor RSR110 (trackside), and the Wheel Signal Converter WSC and Wheel Counting Board WCB (wayside).

- DIN rail mounted in wayside cabinet with small footprint
- Robust equipment operates in extreme conditions and temperatures
- Discrete dry contact outputs
- DIP switch configuration via back of housing
- Interface for remote diagnostics
- Two digits display for axle counter readings and error codes
- Reset button and interface for remote reset
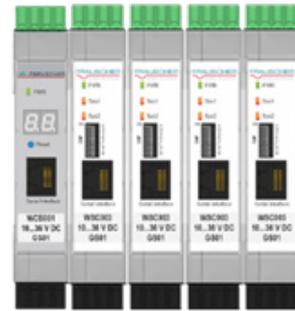
Typical Arrangement of FTVS Wayside Equipment
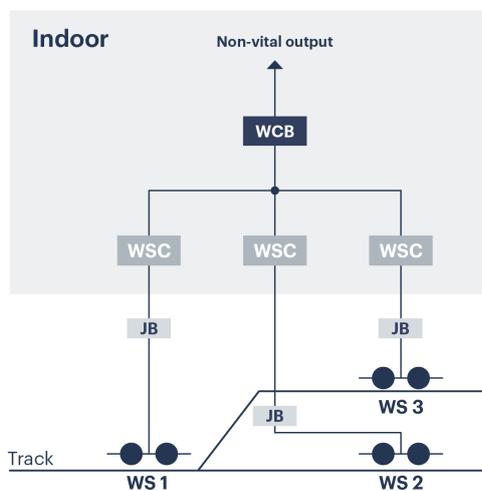
Technical Data FTVS

Interfaces	Discrete dry contact outputs; RS232 & TTL for diagnostic information (optional)
Temperature	Trackside Equipment: - 40°C to 85°C Wayside Equipment: - 40°C to 70°C
Humidity	Trackside Equipment: 100% - IP68 rated Wayside Equipment: Up to 100% (without condensation or ice formation for entire temperature range)
Mechanical Stress	EN 50125-3 and AREMA 11.5.1. AREMA classification A for outdoor trackside equipment and C for wayside equipment
Electromagnetic Compatibility	EN 50121-4; AREMA 11.5.2
Speed	Zero speed capability (0 to 450 km/h)
Dimensions	Wayside Equipment: Modules mounted on DIN rail Module dimensions (typically 4-5 modules needed) H: 4 2/3" W: 7/8" D: 4 1/2"
Power Supply	Voltage: +10 V DC to +36 V DC