

Railway Axle Counting System

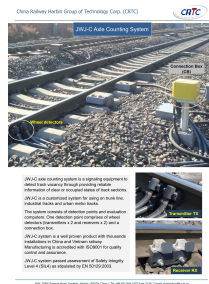
This signaling equipment detects track vacancy by providing information on clear or occupied track sections. The system utilizes wheel sensors to count axles, ensuring accurate train detection and tracking.



ADDITIONAL IMAGES



Overview



Detection point configuration comprising wheel detectors and connection box.

High-Reliability Axle Counting System

This advanced signaling equipment is designed to detect track vacancy by providing reliable information on the clear or occupied states of track sections. It is a customized solution suitable for trunk lines, industrial tracks, and urban metro systems, featuring a redundant design and fail-safe operation to ensure high economic efficiency and low life cycle costs. The system utilizes robust wheel sensors and evaluation computers to provide critical data for signaling, safety, and traffic management.

Certifications & Standards

Compliance & Quality

SIL4, EN 50129:2003, ISO9001

Performance Metrics

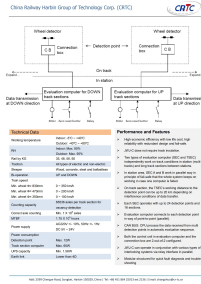
Key Performance Metrics

175000 hours
MTBF

65536 axles
Capacity per Section

100000000 axles
Counting Capability

Technical Specifications



System architecture showing evaluation computers and data transmission paths.

Speed and Wheel Compatibility

| Min. Wheel Diameter | Max. Train Speed |
|---------------------|------------------|
| 830 mm | 0-350 km/h |
| 470 mm | 0-200 km/h |
| 350 mm | 0-100 km/h |

Operating Environment

- Indoor Temp: -5°C to +40°C
- Outdoor Temp: -40°C to +80°C
- Indoor Humidity: Max 90%
- Outdoor Humidity: Max 95%

Power Requirements

- AC Power: 220V ±10%, 50Hz ±1Hz
- DC Power: 5V - 24V
- Detection Point Consumption: Max 12W
- Track Section Computer Consumption: Max 60W

Compatibility

Supported Rail Sizes

35 KG • 48 KG • 56 KG • 60 KG

Supported Sleeper Types

Wood, Concrete, Steel, Ballastless