



COUPLER MOTION DETECTION



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PRODUCT DESCRIPTION

The Motion Detection System for Tram Couplers is designed to enhance passenger and pedestrian safety by preventing fatal accidents caused by reckless individuals attempting to jump over the tram coupler. Utilizing AI-driven camera technology, the system continuously monitors the area around the coupler and instantly detects any motion. If movement is identified, a live video feed from the camera is automatically displayed on the driver's screen, accompanied by a visual warning alert.

This proactive safety measure ensures that tram operators are immediately aware of potential hazards, allowing them to take appropriate action in real-time. By leveraging advanced image recognition algorithms, the system minimizes false positives and provides reliable detection even in challenging environmental conditions.

KEY FEATURES

- AI-Powered Motion Detection** – Uses advanced algorithms to accurately identify movement in the coupler area.
- Real-Time Video Display** – Automatically activates a live feed on the driver's screen upon detecting motion.
- Instant Visual Alert** – Ensures immediate awareness for the tram operator to prevent accidents.
- Enhanced Pedestrian Safety** – Reduces the risk of fatal incidents by discouraging dangerous behavior.
- Seamless Integration** – Compatible with existing tram monitoring and safety systems.

FUNCTIONS & TECHNICAL SPECIFICATIONS

Feature	Description
AI-Based Detection	Advanced image recognition for motion tracking
Live Camera Feed	Instant video display on driver's monitor
Visual Alert	Warning message on screen upon detection
Weather Resistance	Operates in diverse environmental conditions
Integration	Can be integrated into existing tram systems
Safety Enhancement	Prevents unauthorized pedestrian movement

