## Rail Breakage Detection System



Demo Unit on Display

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Provides a low-cost rail breakage detection alternative to conventional track circuit detection when introducing wireless train control systems.

#### **Challenges for railway operators**

Keeping conventional track circuits alongside CBTC results in duplicate equipment and increased costs.

Maximize the use of existing equipment for a cost-effective implementation.

By utilizing the return current to the substation, conventional track circuit equipment becomes unnecessary.

### Rail Breakage Detection System

#### **Monitoring method**

Monitoring balance between left and right rails for return current.

#### **Detection method**

Breakage are detected where return currents differ, since the rail breaking point prevents return current flow.

#### **Compact design**

By utilizing the return current, detection is possible using only the receiving circuit.

# Detects rail breakage by monitoring the balance of return current between left and right rails.

