

GE Transportation

The ElectroLogIXS family of wayside electronics is designed to simplify the way you control your railroad. This versatile platform can be configured for advanced interlocking control, for crossing prediction, or for intermediate signaling.

Sharing modules and software tools across these applications can decrease your design time, simplify installation and maintenance, maximize training effectiveness, and reduce spares inventory requirements.

- I ElectroLogIXS VLC for interlocking control
- X ElectroLogIXS XP4 for crossing prediction
- S ElectroLogIXS EC5 for intermediate signaling

The ElectroLogIXS XP4 supports a wide range of highway-rail grade crossing applications, incorporating constant warning time and motion detection control, crossing island train detection, vital input monitoring, vital relay drive output control and ground fault detection. Vital serial communication ports enable the ElectroLogIXS XP4 to communicate with ElectroLogIXS, EC5, or VHLC systems. It can be expanded to add radio signaling capabilities or to operate remotely through a vital serial data port.

ElectroLogIXS XP4

For Crossing Prediction



Architecture

The ElectroLogIXS XP4 consists of a chassis, motherboard, plug-in modules, a CDU-1 Control Display Unit and personality modules with terminal blocks for hard wiring the system to external crossing controllers. All modules have front-panel indicators that display module health status, and function indicators for monitoring active I/O signals. The CDU-1 or a computer/terminal connected to the diagnostic port serves as the human/machine interface for system installation and setup, parameter adjustment, and system testing and troubleshooting.

Advanced Train Detection

Applying track-tested principles from generations of previous crossing processors, the ElectroLogIXS XP4 broadens crossing capabilities to four-track normal/standby monitoring and adds flexibility in crossing prediction for four quadrant gate and quiet zone crossings. The Crossing Track Interface (XTI-1S) module integrates approach and island circuits. It's compatible with high-current cab signals.

Recording and Analysis

The ElectroLogIXS XP4 has a built-in recorder that logs time-stamped vital and non-vital events as well as internal logic state changes, crossing performance data, and failures/reset information. All recorded events can be printed both track side and in the office. A set of resident diagnostic programs provides the tools necessary to perform system event analysis and troubleshooting.

Recorded data may be displayed in a graphical format using GE - Transportation's Graphical Data Analyzer, or you can play back the sequence of events using Graphical Data Player.

Application

Application templates minimize setup and configuration time in the field on even the most complex applications. Existing templates are user configurable and may be customized utilizing Logic Station, GE - Transportation's suite of application development tools.

Programmable MDR drives (12 per track) provide control for:

- Remote start operation
- Traffic signal preemption
- MD relay drive
- Island relay drive

Specifications

Number of Tracks

Up to 4 normal/standby

Maximum Track Length

7500 feet depending on ballast and frequency

Approach Frequencies

86Hz to 979Hz

Nine Island Frequencies

4Khz to 8Khz

MDR Controls

12 per track

Operating Voltage

9.5 to 16.5 VDC

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