



# ElectroLogIXS® IXC-R20 Integrated Crossing Control Module

The ElectroLogIXS® family of wayside electronics from KB Signaling is designed to simplify the way you control your railroad. The ElectroLogIXS XP4 combines the benefits of years of crossing experience with the modern capabilities of the ElectroLogIXS platform to deliver a state-of-the-art crossing control solution.

For grade crossing warning device control, the ElectroLogIXS platform can be populated with a grade crossing gate, lamp, and bell control module, the Integrated Crossing Control IXC-R20. Each IXC-R20 includes two 20A lamp driving outputs, a bell control output and two independently managed gate control outputs, each able to control up to two gates. A total of four modules can be installed per ElectroLogIXS XP4 chassis, allowing up to 80A of lamp driving capability and up to 16 entrance and/or exit gates.

## Key Benefits

- Scalable and Flexible
- Integrated Crossing Controller
- Variable Gate Output Voltage
- High Availability (Normal/Standby)
- Lamp Current Monitoring
- Automated Maintenance Features
- Supports WSDMM Module Analytics
- Direct Field Wiring

## Customer Benefits

### Crossing Lamp Health

Now fully integrated into the ElectroLogIXS XP4 and IXC-R20, lamp current monitoring provides both maintainers and the application to easily view potential issues with lamps at the associated crossing. Providing statuses to the application will allow operators to incorporate this into future wireless crossing health reporting.

### Automate and Streamline Maintenance

The Automated Testing capabilities of the IXC-R20 allow maintainers a single interface to test the operation of the crossing control functions, including automated adjustment of the lamp current monitoring capabilities.

All results of the automated test procedure are recorded in an accessible test report that can be included in maintainers documentation.

### Analytics Ready

With the additional data required to support crossing lamp monitoring, this information, in addition to other operational data is available to WSDMM applications through the ElectroLogIXS data stream interface. Current draw, flash-rate, and activation states can be streamed to the WSDMM for long term analysis and monitoring.

### Simplified Backwards Compatible

The IXC-R20 is fully backwards compatible with the current IXC-20S+ and its personality module. An IXC-20S+ module can be replaced by an IXC-R20 requiring no change to the application software, executive software, personality module or wiring. With replacement of the IXC-20S+ personality module, the XIP panel required for use with the IXC-20S is no longer required when utilizing the current IXC-20S or the latest IXC-R20 module. This provides more flexibility in the design and simplifies wiring to the field.



# ElectroLogIXS® IXC-R20

## Integrated Crossing Control Module

### Features and Specifications

#### Number of Modules/Chassis

- Up to 4 normal/standby Maintenance

#### Maintenance

- Current Monitoring
- Automated Test Procedure
- Automated Test Report

#### Crossing Control

- Up to 80 amps of lights
- Up to 8 pairs of gates
- Up to 16 vital inputs to monitor gate position
- Up to 4 individually controlled bell control drives
- Up to 4 individually controlled non-vital outputs

#### Communications

- Multi-Chassis Flash Sync Flashrate: 35 – 65 FPM

#### Availability

- Redundant capable
- Fall-back lamp lighting modes

#### Operational

- Direct to field panel wiring
- Gate battery
- Input 8VDC to 20VDC
- Output 11VDC to 16.5VDC

#### Gate Outputs

- Output 11VDC to 16VDC
- Max 4 amps at a 2.75 Ohm load

#### Lamp Outputs

- 8.5 Vrms to 19 Vrms (on)
- 20 amps maximum load

#### Bell Output

- 20VDC
- 4 amps maximum load

#### NV Output

- 16.5VDC xax

#### Vital Inputs

- 0 to +32 VDC Max

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