SEL-2126
Fiber-Optic Transfer Switch

Quickly Switch Fiber-Optic Communications

Reroute primary or secondary fiber-optic protection communications in main-bus/transfer-bus applications.

Features and Benefits

**Minimize Tripping Time**
The SEL-2126 has a data delay of less than 10 μs. This is 400 to 1,000 times faster than traditional digital devices.

**Install Flexible Relay Communications**
Reroute communications from up to six pairs of line protection relays to either or both of two bus-tie relays.

**Improve Protection Scheme Availability**
Independently or simultaneously allow current-differential protection and communications-assisted pilot tripping schemes to remain in service during circuit breaker or substation maintenance.

**Reduce Installation Costs With the IEEE C37.94 Interface Standard**
Eliminate the need for expensive interface converters to link multiplexed synchronous communications to asynchronous devices.

**Reroute Multiple Communications Protocols With One Transfer Switch**
Quickly and cleanly reroute any communications protocol carried on the IEEE C37.94 fiber-optic interface standard without moving fiber connectors and without changing communications equipment programming.

Making Electric Power Safer, More Reliable, and More Economical®
Automate Protection Communications

- Transfer communication to two bus-tie relays simultaneously for main-bus/transfer-bus schemes, station-bypass operations, three-terminal line applications, primary and backup communications links, and local or remote relay testing.
- Choose between the default instantaneous switching time (100 ms) and the delayed switching time (5 s). The delayed switching time is jumper-selectable for applications where switching requires more time to account for selector-switch operation or mechanical transients.
- Preserve line protection communications during breaker or station-bypass maintenance operations instead of disabling communications-assisted tripping schemes (e.g., POTT, DCB, 87L).
- Use the 16 contact inputs to control fiber-port routing, and use the two output contacts to report the system status.
- Automatically change group protection settings on the bus-tie breaker relay to match the bypassed-relay protection settings, or use an SEL-SSE, an SEL-SSP, or any other selector switch.

Main-Bus/Transfer-Bus Scheme Application

Normal Operation
- Current-differential (87L) and communications-assisted protection rerouted to bus-tie relay during circuit breaker or station maintenance.

Bypassed Operation
- Tie-circuit breaker CB1 protects Line B via Main Bus.
- Line B receives power from Transfer Bus.
- Local circuit breaker CB3 protects Line A via Main Bus.
- SEL-2126 Fiber-Optic Transfer Switch

General Specifications

Power Supply Ratings
- 20–250 Vdc
- 95–240 Vac, 60 Hz, <15 VA

Standard Control Input Voltage Options
- 24, 48, 110, 125, 220, or 250 Vdc

Fiber-Optic Channels
- Multimode, 50 or 62.5 mm cable, ST® connectors
- Compatible with the IEEE C37.94 interface standard

Operating Temperature
- –40° to +85°C (–40° to +185°F)