

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 μ s. 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

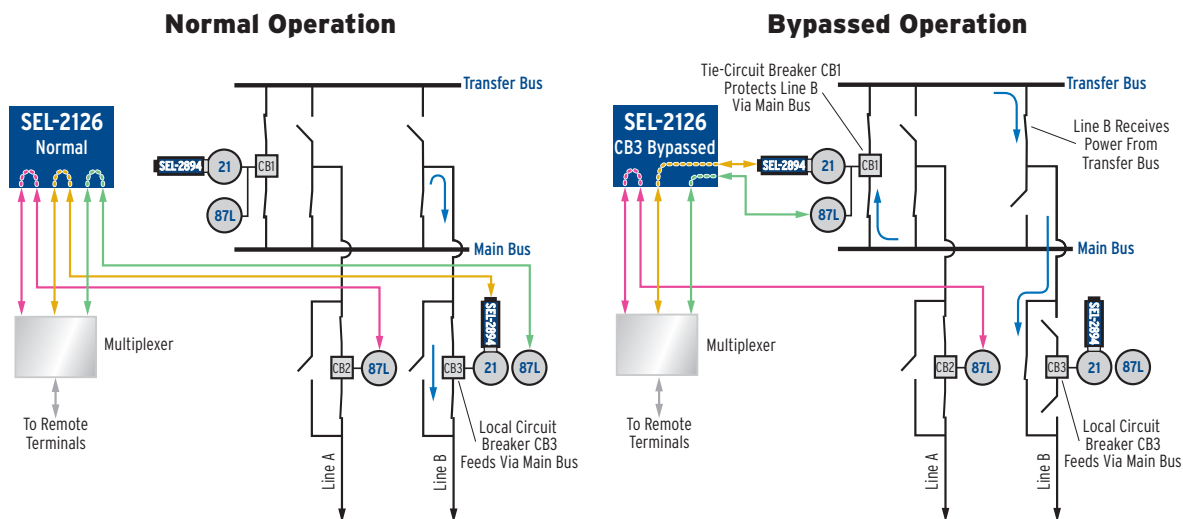
Quickly and cleanly reroute any communications protocol carried on the IEEE C37.94 fiber-optic interface standard without moving fiber connectors and without changing communications equipment programming.

SEL-2126 Fiber-Optic Transfer Switch

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



Current-differential (87L) and communications-assisted protection (21) rerouted to bus-tie relay during circuit breaker or station maintenance.

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)



Pullman, Washington USA
Tel: +1.509.332.1890 • Fax: +1.509.332.7990 • www.selinc.com • info@selinc.com

© 2005–2012 by Schweitzer Engineering Laboratories, Inc. PF00118 • 20120322

