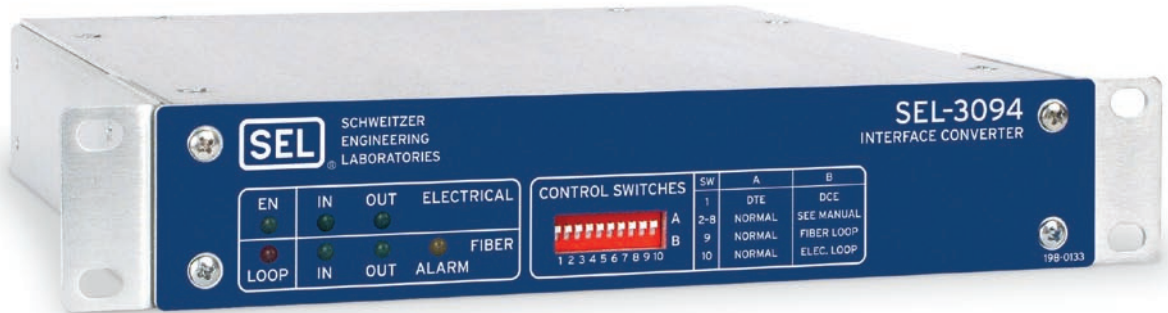


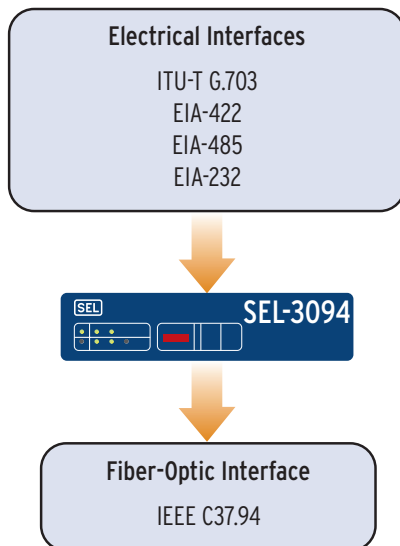


SEL-3094 Interface Converter

Use Optical Fiber to Improve Safety and Security of Teleprotection Applications



Use standard optical fiber between teleprotection equipment and multiplexers.



Features and Benefits

■ IEEE C37.94 Standard Conversion

Converts older electrical teleprotection interfaces to new optical standard. The SEL-3094 links devices with ITU-T G.703, EIA-422, EIA-485, or EIA-232 electrical interfaces to C37.94 fiber-optic devices.

■ Easy Application

All settings are made with ten control switches. LEDs indicate the state of inputs, outputs, and the communications link.

■ High Speed

Uses one 64 kbps time slot in a digital multiplexer.

■ Improved Safety and Isolation

Fiber-optic connections provide isolation from dangerous ground potential rise, prevent induced electrical noise, and eliminate signal ground loops.

■ Universal Power

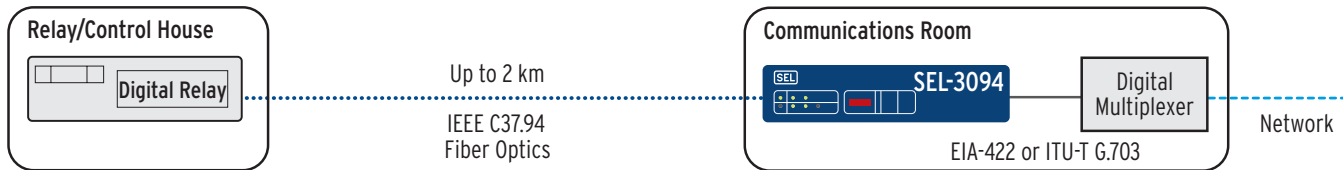
Power supply operates from 18 to 300 Vdc and 85 to 264 Vac.

Making Electric Power Safer, More Reliable, and More Economical®

SEL-3094 Interface Converter

Application Examples

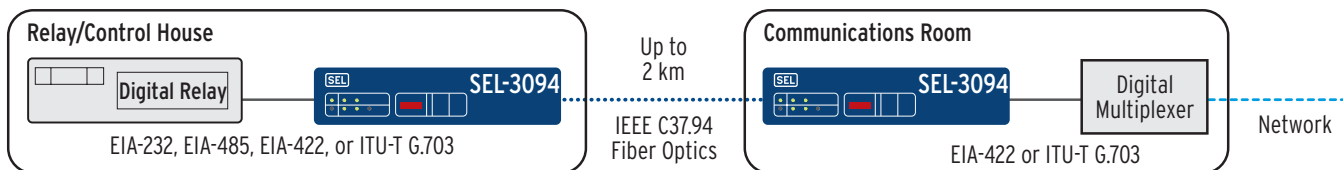
Convert most electrical links to IEEE C37.94 fiber-optic standard.



Link an IEEE C37.94-compliant relay (i.e., SEL-311L) to a noncompliant multiplexer.



Connect a relay using its electrical interface to an IEEE C37.94-compliant multiplexer or transfer switch (i.e., SEL-2126).



Use optical fiber between relays and multiplexers that have only electrical interfaces available.

General Specifications

Data Links

Electrical Connection

Connector	DB-25 Subminiature-D
Interface	ITU-T G.703, EIA-422, EIA-232, or EIA-485 Standard

Optical Connection

Connector	Two ST® Connectors
Interface	IEEE C37.94 Standard

Speed and Delay

Speed	64 kbps: ITU-T G.703, EIA-422 9.6 kbps: EIA-232 or EIA-485
Delay	Less than 200 μ s

Laser Safety Standards

Class 1 laser product
USA-21CFR 1040.10
Europe-IEC 60825-1: 1993+A1: 1997+A2: 2001

Substation- and Plant-Grade Equipment

Designed, built, and tested with the same practices, processes, and standards that we use for our protective relays, communications processors, and other products.

Commitment to Quality

Schweitzer Engineering Laboratories, Inc. is committed to quality. Our certification to the ISO 9001 quality standard and our worldwide, ten-year product warranty are examples of this commitment. We encourage and appreciate your feedback about the use of SEL equipment, and we will use this information to continually improve our products and services.



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