

SEL-3094 Interface Converter



Improve Safety and Security of Teleprotection Links by Applying Optical Fiber



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 IEEE 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

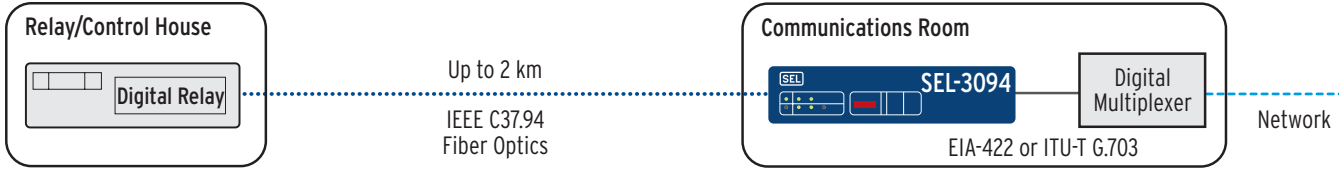
Power supply operates from 18 to 300 Vdc and 85 to 264 Vac.

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

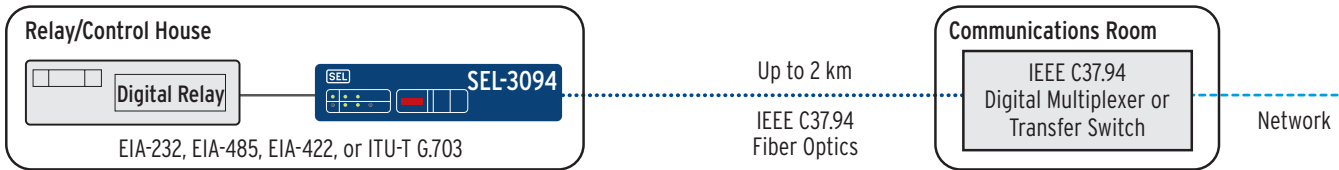
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Application Examples

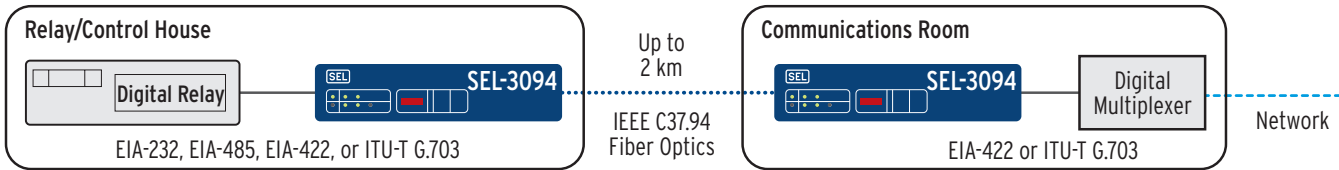
Convert most electrical links to IEEE C37.94 fiber-optic standard.



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
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 µs

Laser Safety Standards

Class 1 laser product
USA—21 CFR 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.



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