

COMING SOON

# SEL-9L

## Line Relay



## High-speed line protection in a powerful, flexible relay platform

- Upgrade and add capabilities easily with flexible firmware and communications-specific small form-factor pluggable (SFP) transceivers.
- Reduce operation and maintenance (O&M) expenses with the advanced trip circuit monitor—only from SEL.
- Simplify setting, commissioning, and troubleshooting your relay with modern, intuitive configuration software.



# Key Features

## Flexible Hardware and Firmware

Order the SEL-9L equipped for your application, and easily adapt it to future needs.

Features such as a 48–250 V power supply, software-configurable SFP ports, wide-range CTs, and software-selectable contact input ranges let you adapt the relay to changes in substation systems and primary equipment. Integrated IEC 61850 protocols enable fast and reliable communications for a variety of applications. Flexible firmware and the ability to mix and match communications-specific SFPs make it easy to install future enhancements and add new functionality; an 87L element and centralized authentication will be among the first enhancements to come.

## Advanced Trip Circuit Monitoring

Reduce O&M expenses with integrated advanced trip circuit monitoring—available only from SEL.

This feature allows the relay to validate output contact closure and differentiate output contact failure from other potential problems in the circuit, greatly reducing the frequency with which relays must be taken out of service and manually tested. The ability to validate correct operation with existing data in the relay also supports compliance efforts with reliability standards (for instance, NERC PRC-005 for North American utilities).

## Distance Protection

Protect critical subtransmission lines with up to five zones of distance protection.

Apply protection in single- and dual-breaker installations using phase or ground quadrilateral or mho elements. Quickly clear faults and prevent potential equipment damage with subcycle operating times. The SEL-9L samples at 10 kHz with a 1-millisecond processing interval, ensuring a fast and accurate response. It can be applied on lines of any length or voltage level, and it is an ideal choice for subtransmission applications.

## Communications-Assisted Tripping Schemes

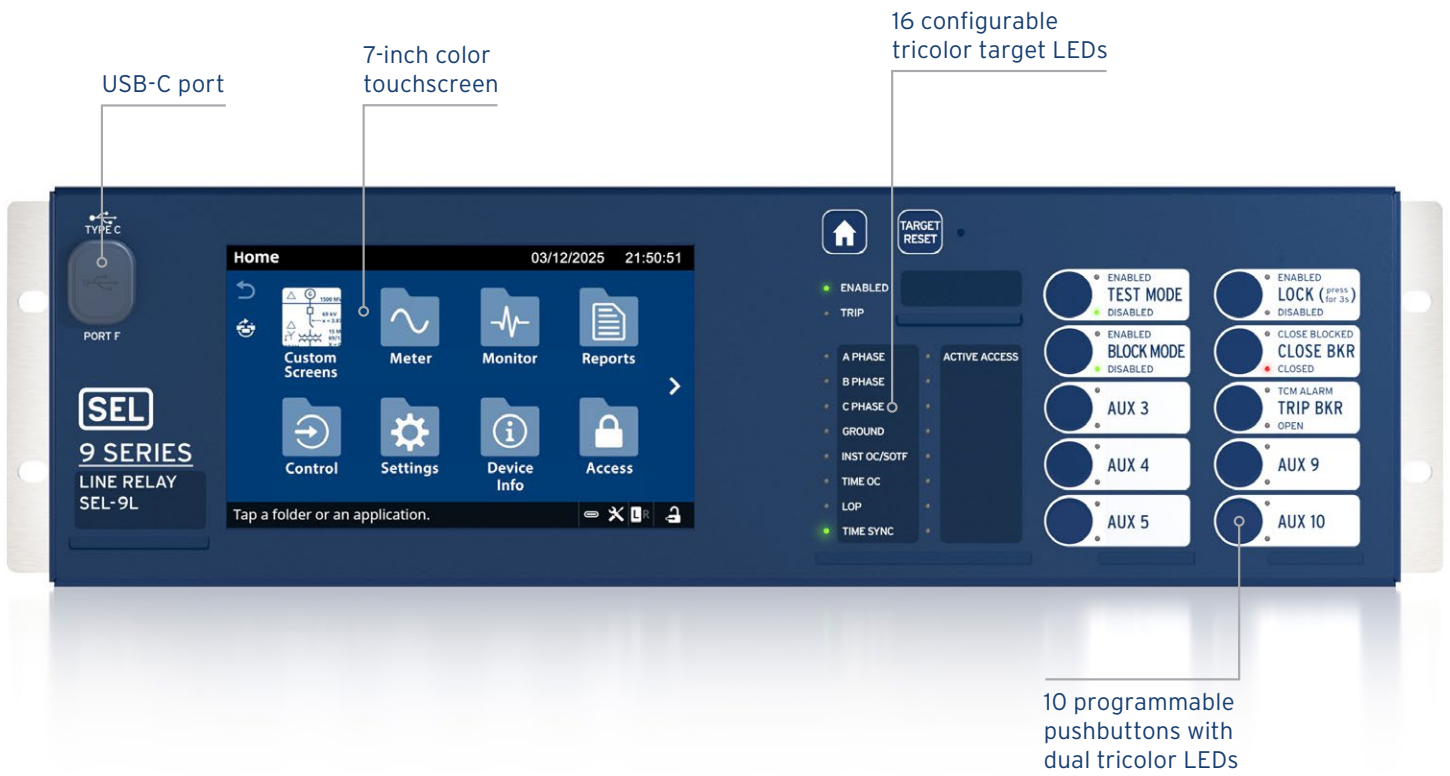
Provide communications-assisted protection for subtransmission lines with preconfigured permissive overreaching transfer trip (POTT) schemes, directional comparison blocking (DCB) schemes, and an intertripping direct transfer trip (DTT) scheme.

## Simple Settings Configuration

Reduce commissioning time, and more efficiently manage device settings with modern, intuitive configuration software.

SEL Grid Configurator has a modern interface and customizable HMI screens that provide easy access to all the information needed to set, test, commission, and troubleshoot the SEL-9L. SEL Grid Configurator also features a spreadsheet-style settings editor, powerful protection visualization, comprehensive reporting, custom filters, and multiple-device settings management.

# Overview



3 advanced circuit-monitoring, high-speed outputs with voltage, current, and trip circuit monitoring logic

23 contact outputs

21 software-selectable 24–250 V contact inputs

2 MIRRORED BITS® ports

6 SFP ports



4 or 8 software-selectable 1 A/5 A CTs with removable self-shorting terminal blocks

Line voltages with software invertible polarities

Universal 48–250 V power supply with integrated battery monitor

**The SEL-9L will be available for preorders soon.**

Questions? Contact us.

Learn more about the SEL-9L: [selinc.com/products/9L](https://selinc.com/products/9L)

Learn more about the SEL 9 Series relay platform: [selinc.com/mktg/9-series-relay-platform](https://selinc.com/mktg/9-series-relay-platform)

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