

Reliable, Low-Cost Digital I/O for SCADA and More



Add control outputs and status-sensing inputs to communications processors.

Features and Benefits

Additional Monitoring and Control for SEL Communications Processors

Use the SEL-2516 to monitor eight external contacts and to control eight contact outputs. Integrate with SEL communications processors and protective relays to provide SCADA functions and engineering access, instead of using an RTU and additional equipment.

Improved Safety

Replace control wiring to outside cabinets with fiber-optic cable to eliminate paths for dangerous voltages. All wire connections are behind the panel.

Increased Dependability

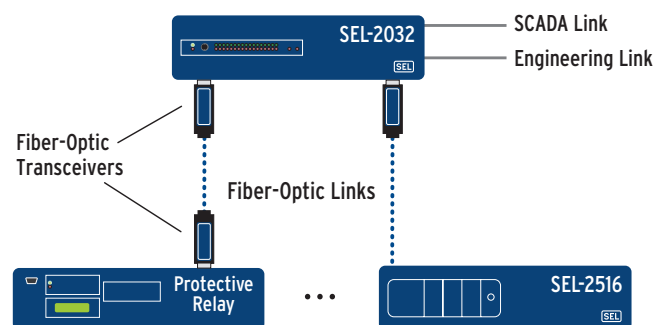
Install the SEL-2516 and optical fiber instead of wire to prevent data errors due to electromagnetic interference. The SEL communications processor creates an alarm when the fiber-optic communications are interrupted.

Status Indication and Annunciation

Print configurable labels for LEDs to clearly identify and show status of all I/O points.

Easy Application and Installation

Install the SEL-2516 in a standard rack. Set parameters with back-panel switches. Quickly install and remove the module without disturbing the wiring by using patented Screw-Terminal Connectorized® blocks.



I/O via relays and remote I/O modules.

SEL-2516 Remote I/O Module

General Specifications

Fiber-Optic Port Options

Connector	Fiber	Distance	Transceiver Compatibility
V-System	Multimode	<500 m	SEL-2800
ST®	Multimode	<15 km	SEL-2815
ST	Multimode	<23 km	SEL-2829
ST	Single-mode	<80 km	SEL-2830

Data Rate (bps)

19200
9600

Digital Output Ratings

IEEE C37.90 tripping output performance

Make 30 A

Carry 6 A

MOV protected 270 Vac RMS; 360 Vdc continuous

Digital Input Ratings

4 mA nominal input current

Voltage ranges (selected at order time):

Range	On	Off
24 Vdc	15–30 Vdc	
48 Vdc	38.4–60 Vdc	<28.8 Vdc
110 Vdc	88–132 Vdc	<66 Vdc
125 Vdc	105–150 Vdc	<75 Vdc
220 Vdc	176–264 Vdc	<132 Vdc
250 Vdc	210–300 Vdc	<150 Vdc

Operating Temperature Range

–40° to +85°C (–40° to 185°F)

Power Supply Ratings

48/125 Volt 36–200 Vdc or 85–140 Vac, 5 W max.

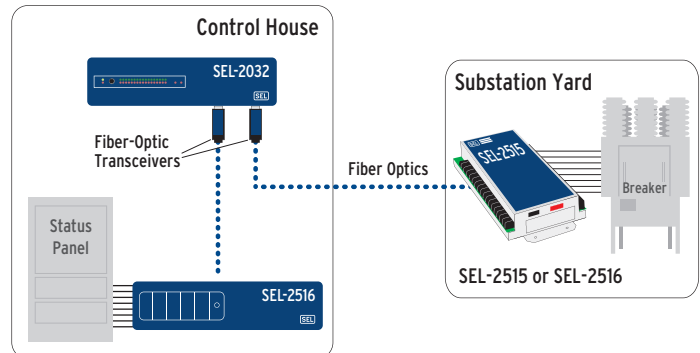
125/250 Volt 85–350 Vdc or 85–264 Vac, 5 W max.

Dimensions

2 rack units

88.9 mm H x 482.6 mm W x 236.2 mm D (3.5" x 19" x 9.3")

Application Overview



Control and monitor remote devices through reliable, safe, low-cost fiber-optic links. Add inputs and outputs (I/O) to SEL communications processors. Communications processor-based systems are far more reliable than RTU-based systems and provide added functionality to tap the valuable data in digital protective relays.

Get protection settings management, power system report management, high-speed local logic, and direct engineering access. Use SEL communications processors, relays, remote I/O modules, and I/O processors for higher reliability, lower cost, and more functions, instead of settling for an RTU. An RTU provides only remote I/O for SCADA; therefore, you do not benefit from the other functions available through an SEL communications processor-based system.

Related Products

Use these SEL products for other I/O applications:

- SEL-2515 Remote I/O Module for surface-mount applications with eight digital inputs and eight digital outputs
- SEL-2505 and SEL-2506 Remote I/O Modules for MIRRORING BITS® communications with SEL relays or each other



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

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