

SecurLAN™ SL50x Protected Distribution Systems Specification Sheet

The protection of information technology networks is a priority in the private sector and within the branches of the U.S. Military at the Department of Defense (DOD). Ensuring that national security information is never compromised forms the basis for all network communications security initiatives. It is widely known that the fiber-optic or copper cables that form network backbone raceways are vulnerable to intruders that might physically tap into their data streams.

When deployed in parallel within a network conduit, or embedded in a carrier, the Fiber SenSys SecurLAN SL504™/SL508™ Alarm Processor Unit (APU) is the core component used to alarm the network conduit or the raceway. The SL504/SL508, as the integral part of the SecurLAN network protection model, enables a network carrier system to meet the DOD requirements for Protected Distribution Systems (PDS), a government requirement for physical protection of classified network data. SecurLAN products have been approved for the protection of classified networks, SCIFs, and unclassified, but sensitive networks.



The SL504 is a four-zone model, and the SL508 can support up to eight separate zones.

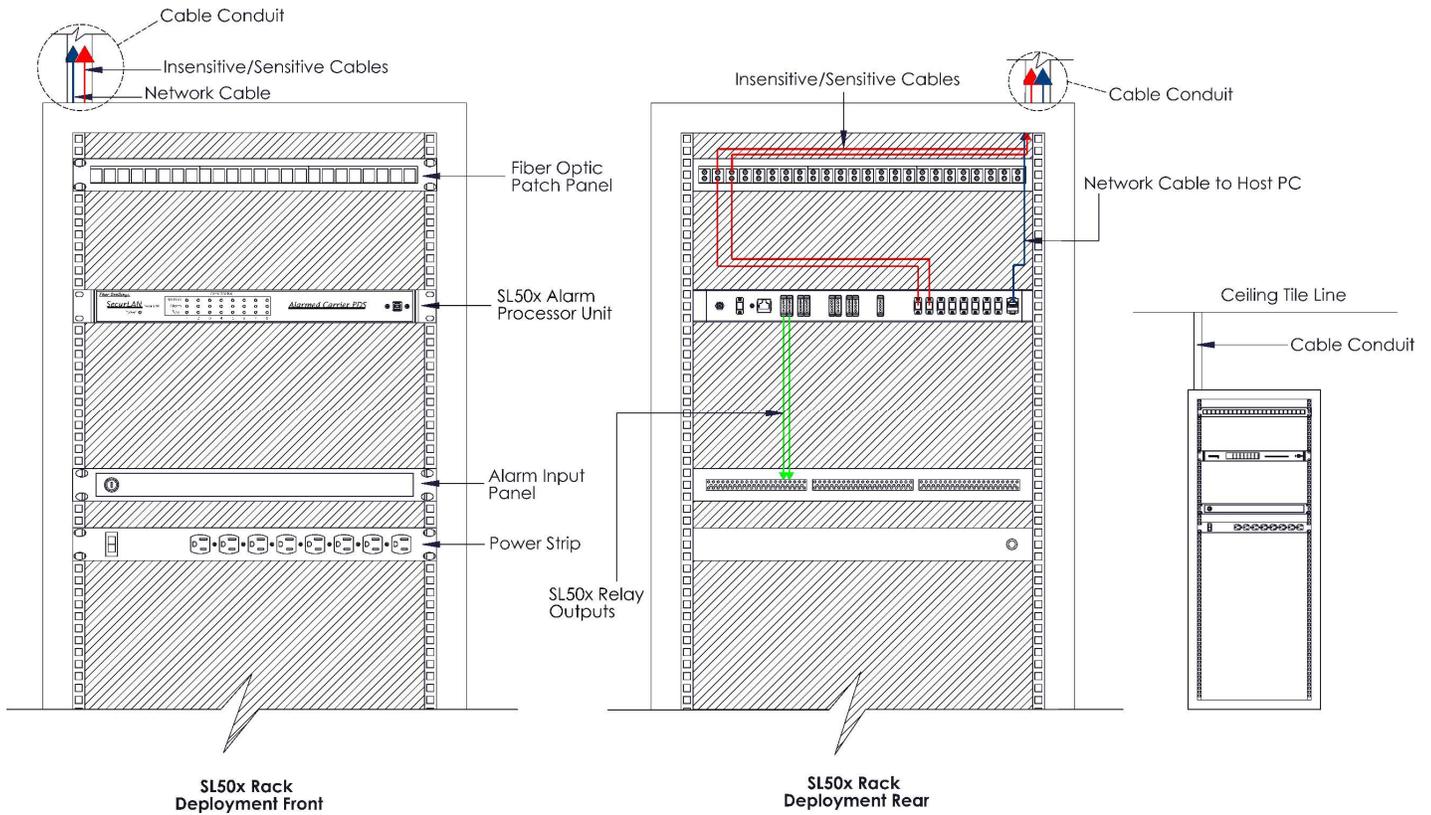
The SL504/SL508 APU provide instant notification of unauthorized access, tapping (packet capture) as well as accidental intrusion attempts. The system provides multiple alarm notification options to match the customers' requirements and standard operating procedures. Using the Fiber SenSys Optical Cut-off Switch, upon alarm, data can be turned off so that it is not accessible to an intruder.

SecurLAN makes protecting DOD networks cost-effective and enhances security through multiple annunciation and network communications capabilities. SecurLAN also eliminates the need for visible inspection requirements when securing a PDS. As a result, network raceways and conduit can be concealed above the ceiling or below the floor.

| FEATURES | APPLICATIONS |
|---|------------------------------------|
| Local Area Network (LAN) Physical Protection | Commercial Installations |
| Protected Distribution Systems (PDS) Approved | Military and Government Facilities |
| Remote APU Deployment | Banking and Financial Networks |
| Environmental noise compensation | Indoor Environments |
| Detects disturbances, tapping, splicing | Secure Distributed Network Systems |
| Linear, uniform sensitivity | Command and Control Headquarters |
| Data center ready / Rack-mounted design | SCADA Utility Networks |

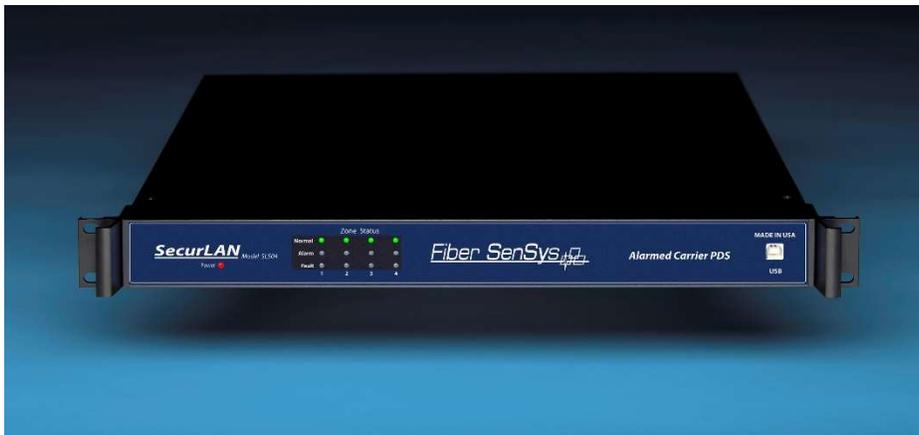
For more information, contact us at
info@fibersensys.com
 Tel: +1(503) 692-4430
 Toll free (US) +1(800) 641-8150
www.fibersensys.com

RACK ASSEMBLY DIAGRAM



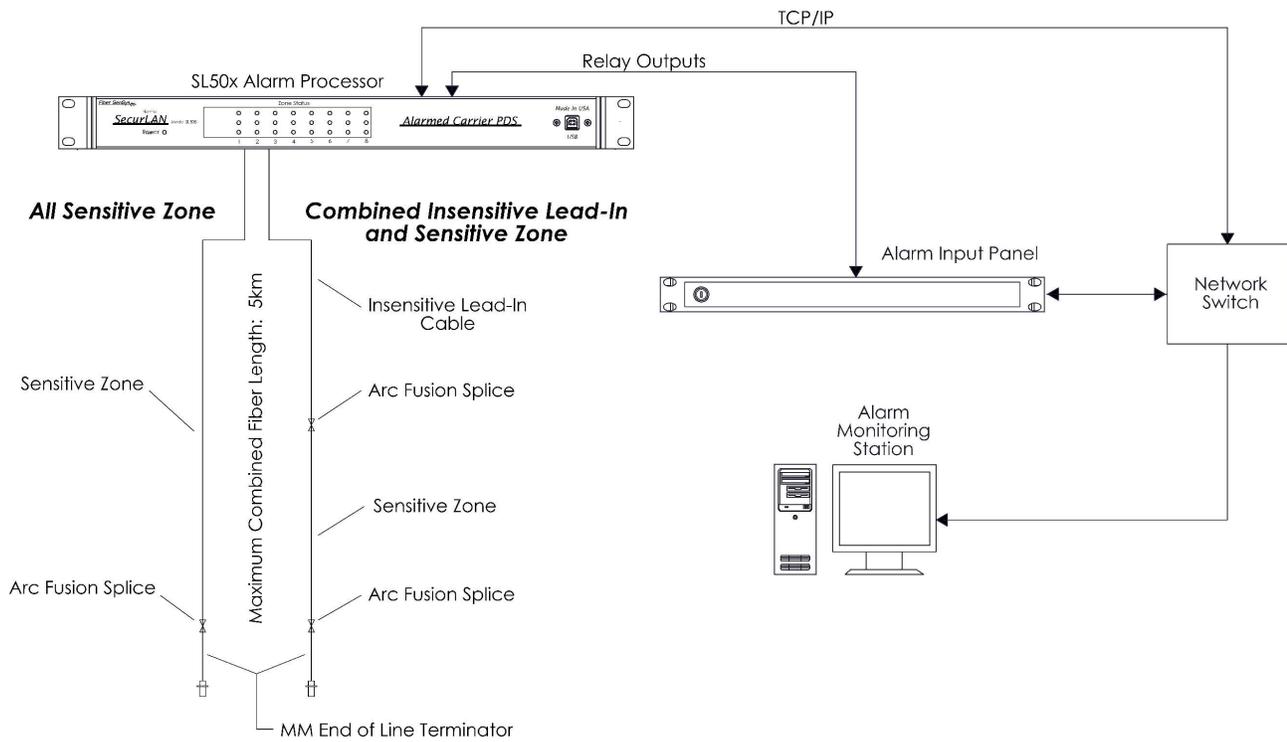
Drawing Notes:

- The SL504/SL508 Alarm Processor Unit (APU) is compatible with all industry-leading head end systems. The Alarm Input Panel refers to controller units common to all annunciators and head end systems.
- Relay output connections (from SL50x relays) are connected to the terminal block of the Alarm Input Panel.



SL504

APPLICATION DIAGRAM



Drawing Notes:

- The SL504/SL508 Alarm Processor Unit (APU) is compatible with all industry-leading head end systems. The Alarm Input Panel refers to controller units common to all annunciators and head end systems.
- To achieve positive network shutdown of zones in an alarm condition, Fiber SenSys Optical Cutoff Switches (OCS) may be used (not shown).
- For specific design and applications of the SL504 and SL508, including the alarming of existing dark fiber (within specifications), please refer to application notes, available on the Fiber SenSys website or contact your territory representative.



SL508

| PRODUCT SPECIFICATIONS | |
|--|--|
| System Type | Alarm processor for Protected Distribution System (PDS) and for physical protection of data networks |
| Number of zones | SL504 - Up to four (4) fully independent zones SL508 - Up to eight (8) fully independent zones |
| Sensing fiber | Multimode fiber or dark fiber including all OM types |
| Insensitive lead-in fiber | Single-mode fiber |
| Sensing cable / zone lengths | <ul style="list-style-type: none"> For each zone, sensing fiber + insensitive lead-in cable \leq 5 km Sensing fiber length \leq 5 km |
| APU power requirements | 12-24 VDC input 19 watts power consumption (maximum) |
| Standard, external power supply | 12-volt external power supply Maximum power output = 24 watts |
| Front-panel display | LED indicators for normal, fault, and alarm conditions for each zone |
| Communications | <ul style="list-style-type: none"> USB serial port for configuration TCP/IP port for alarm output and XML communication Individual dry contact alarm relays for each zone |
| Relay contact ratings Alarm relay default ACC bus fault relay default Individual Zone Fault Relays Dry contact resistance | 100 mA @ 24 V Normally open, or normally closed Normally closed Normally closed 7 Ω typical, 17 Ω max (Form A) 5 Ω typical, 17 Ω max (Form B) |
| Dimensions | Height = 4.5 cm (1.77 inch) – 1U Width = 42.5 cm (16.75 inch) Depth = 40.6 cm (16 inch); Compatible with standard 19" rack |
| Operating temperature range Maximum operating humidity range | 0°C to 55°C 0 to 95% non-condensing |
| Regulatory Compliance | CE, FCC Part 15, RoHS |
| Compatibility | Compatible with many varieties of network architectures including secure passive |

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