

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.



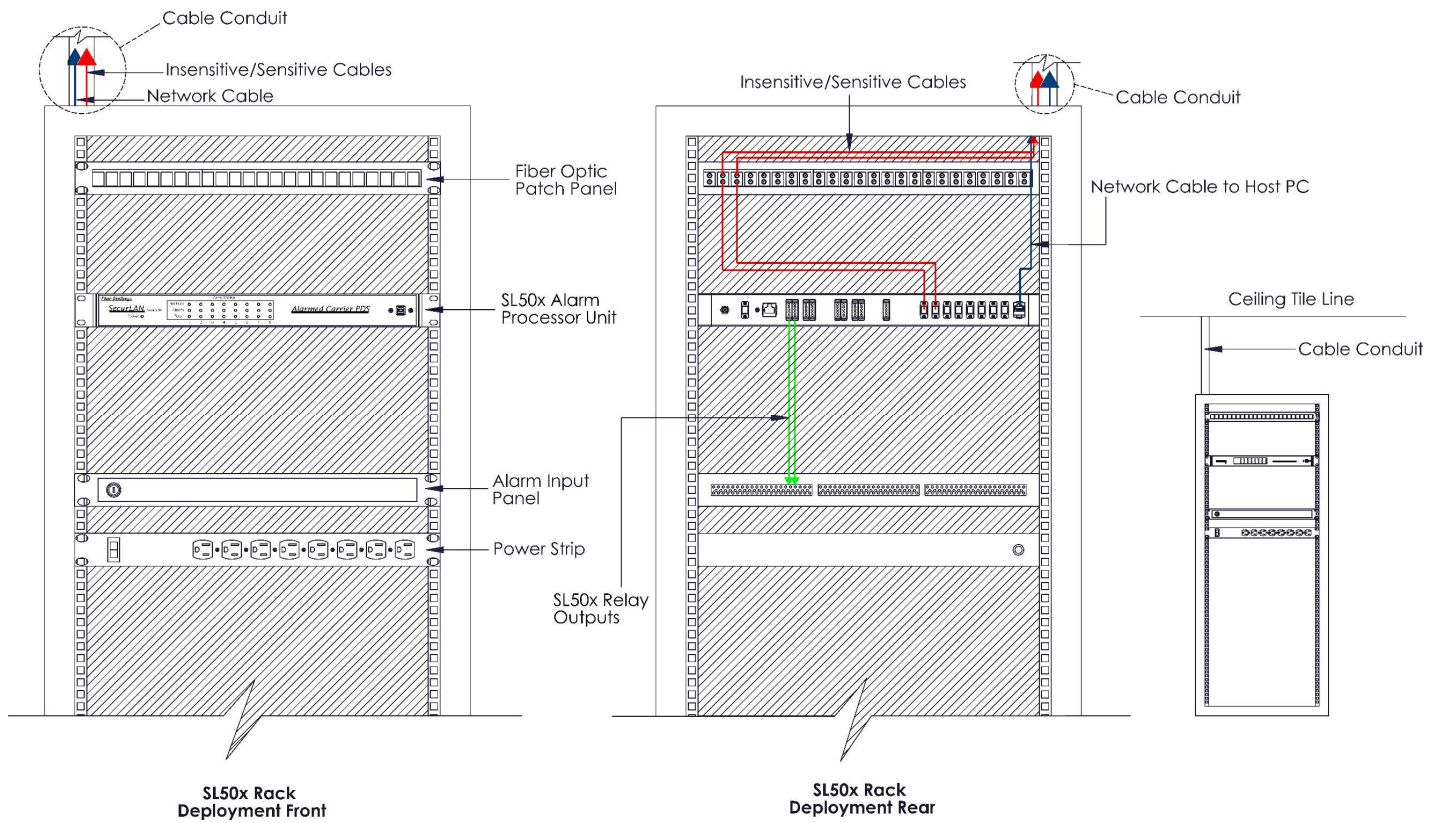
The SL504 is a four-zone model, and the SL508 can support up to eight separate zones.

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

Rack Assembly Diagram



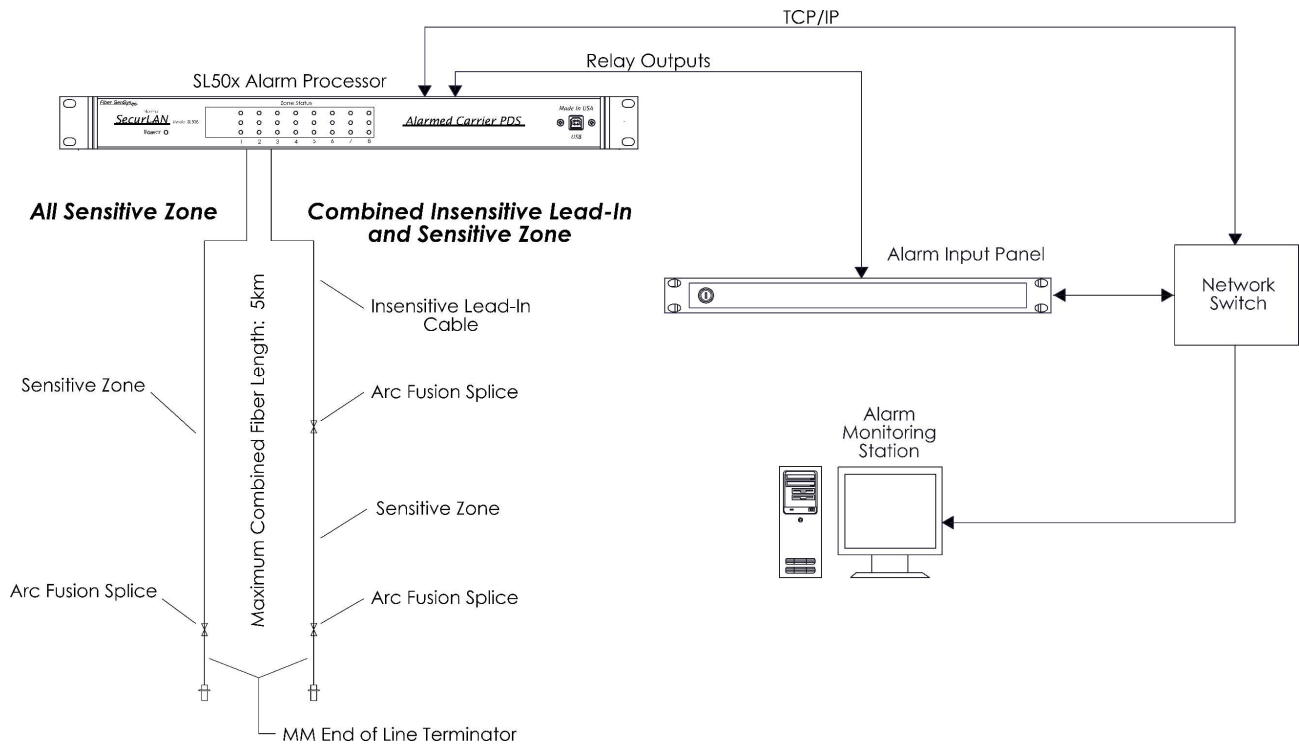
Drawing Notes:

- 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 optical networks (S-PON)

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