Fiber SenSys®
AN OPTEX GROUP COMPANY

SecurLAN™

Alarmed Carrier for Protected Distribution Systems (PDS)

Information is one of the world's most sought-after commodities. The data networks used to store and transfer information are under constant cyber-attack. Often overlooked, but equally as vulnerable, are the physical cables that carry this information. SecurLAN, by Fiber SenSys, Inc., protects the cables that form the network from intruders.

Data encryption is a standard way of protecting information but given enough time encryption can be defeated. Fiber SenSys, Inc., offers **SecurLAN**, an intrusion detection system designed to protect data networks at the ***physical layer***. **SecurLAN** monitors the data cable for vibrations caused when an intruder tries to cut or tap into the network cables. Unlike encryption, **SecurLAN** cannot be "cracked."

Features:

- **Military approved**
- **Layer 1 Physical Data Security**
- **No bandwidth restrictions**
- **No need for daily inspections**
- **Uses multimode or single-mode cable as sensor**
- **No data encryption needed**
- **No hardened carrier needed**

SecurLAN protects network data by using the same advanced fiber-optic sensing technology used worldwide by the military to protect critical resources. **SecurLAN** uses dedicated or existing fibers to sense vibrations from intruders attempting to physically access the conduit or cable. **SecurLAN** fortifies data security.

The **SecurLAN** Alarm Processing Units (APU) transmit laser light through the sensing fiber and analyze the light using advanced signal processing. An intruder tapping the data cable will cause a disturbance in the light within the sensor cable instantly alerting the operator. Sophisticated signal processing can discriminate between nuisance sources such as HVAC systems and real intrusions.

Applications:

- **Military facilities**
- **US Government PDS**
- **National laboratories**
- **Banks**
- **Hospitals**
- **Research facilities**
- **Data storage facilities**
- **Command and control centers**

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Whether it is for protecting a new or existing network, **SecurLAN** options save you money. Fiber SenSys **SecurLAN** alarm processors can protect one to eight zones. The FD525 model alarm processors are also **SecurLAN** capable to 25 zones. Furthermore, the **SecurLAN** solution is scalable and able to protect even very large sites. Cable options include single-strand sensors to protect existing infrastructure or a custom bundled cable option with the sensor cable embedded together with the network cables. Existing dark (unused) fiber (within distances and specifications) can be used or choose bundled "pre-alarmed" or "armored and alarmed" backbone cables to protect the information network.

The Fiber SenSys lineup of **SecurLAN** processors, combined with custom tuning and calibration capabilities, provides optimal and worry-free system performance at the lowest cost per zone in the industry.

ALARM PROCESSOR	
The following APUs are specifically designed for **SecurLAN** PDS applications:	
SL352	Two-zone, IP enabled, remote deployed APU
SL352-SM	Two-zone, IP enabled, APU with the ability to utilize single-mode cable via included single-mode activator. This product does *not* support insensitive lead-in cables.
SL358R	Single-zone, card-style, remote APU. The RK348 4U rack-mount chassis accommodates eight APUs.
SL358R-SM	Single-zone, card-style, APU with the ability to utilize single-mode cable via included single-mode activator. This product does *not* support insensitive lead-in cables. The RK348 4U rack-mount chassis accommodates eight APUs.
SL504 and SL508	Four and eight zone, 1U rack-mount, remote APU

SecurLAN SPECIFICATIONS	
Application	Physical layer 1 data-protection system
System Control	Fiber SenSys SecurCommander™ or user's existing command and control system
Intrusion Sensor	Single-mode or multimode optical fiber
Alarm Notification	Varies based on command-and-control system incorporated in the system
Minimum Required Components	• One Fiber SenSys Alarm Processing Unit (APU). See chart above. • Command and control system • Sensor cable • Insensitive cable leads (as needed based on APU)
Optional Components	• Alarm Input/output modules • Optical cutoff switch

COMPLIANCE

SecurLAN is compliant for use in network Protected Distribution Systems (PDS) at U.S. Government installations built in accordance with the following listed guidelines:

- Committee on National Security Systems CNSSI No.7003 (September 2015) Protected Distribution Systems (PDS)
- Air Force Instruction AFSSI 7703
- U.S. Navy Protected Distribution Systems Guidebook NAVSO P-5239-22
- U.S. ARMY Regulation AR25-2

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