Fiber SenSys®
PERIMETER SECURITY

FD322 Fiber–Optic Intrusion Detection System

Value priced, easy to install perimeter protection

Fiber-optic sensors are the ultimate in perimeter protection. Impervious to fog, darkness, dust, and lightning, they serve as constant sentinels, but their price has been prohibitive for many applications – until now.

Designed specifically for price-sensitive industrial, commercial, and retail applications, **Fiber SenSys**® has developed the **FD322 Fiber–Optic Intrusion Detection System** as an all-new fiber-optic perimeter sensor.

Applications:
- **Construction sites**
- **Garden centers**
- **Corporate buildings**
- **Manufacturing plants**
- **RV/Marine Storage**

The **FD322** incorporates Fiber SenSys' proprietary and patent-pending technology that has been successfully deployed in thousands of sensors throughout the world, in a low-priced and easy to use sensor. Simply install the sensing fiber to the fence perimeter, connect the fiber-optic sensor to the alarm processor (APU) and select a few basic tuning parameters using the FD322 tuning software. That's all there is to it. The **FD322** detects intruders attempting to climb or cut through fences. Sophisticated algorithms distinguish between intruders and "nuisance alarms" that might be caused by wind or small animals. Unlike metallic (coaxial) sensors, the **FD322** uses advanced fiber-optic sensing that is unaffected by harsh environments, including UV radiation, moisture, salt, or even lightning strikes.

Return on investment – Low total cost of ownership

The **FD322** is the most economical and reliable fiber-optic perimeter sensor you can buy. Its economic advantage is found not only in the low purchase price, but also in its nearly nonexistent cost of ownership. The alarm processor will last for years, and unlike lower-quality systems, our fiber-in-conduit sensor will typically outlast the fence it is installed upon.

- **Two zones per APU; each zone up to 500 meters of sensing cable**
- **Passive fiber–optic sensor**
- **Remote control and monitoring over TCP/IP network**

Fiber SenSys®

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Features and Benefits of the FD322 Fiber-Optic Intrusion Detection System

- Two fully independent zones, each of which can support up to 500 meters of sensing fiber.
- Durable fiber-optic sensing unaffected by chemical or electrical environmental elements that include corrosion, EMI and lightning strikes.
- TCP/IP interface utilizing XML, in addition to a RS232 communications port, ensures a high level of integration and communication options.
- The FD322 can be fully integrated with our headend system for a total system solution when combined with other security elements such as video cameras and other third-party devices.
- Includes custom tuning software.

FD322 Technical Specifications

Parameter	Specification
Application	Perimeter fence
Sensor	Passive, optical fiber; resistant to EMI and corrosion
Installation	Sensing fiber in conduit; conduit attached to fence with stainless steel wire ties
Number of zones per APU	2
Maximum sensing cable per zone	500 meters
APU electrical power	- Input voltage: 12-24 volts - Power: 3 Watts
Light source	Laser
Communications	RS-232 serial communications, IP/XML
Optical connectors	ST, PC polish
Non-sensing lead-in fiber	No
Loss calibration	Automatic
Tuning parameters	- Sensitivity (for cuts and climbing) - Number of events before alarming (for cuts and climbing) - Low-frequency cutoff (for cuts/climbing) - Wind rejection - Tamper (enable/disable) - Alarm relay time