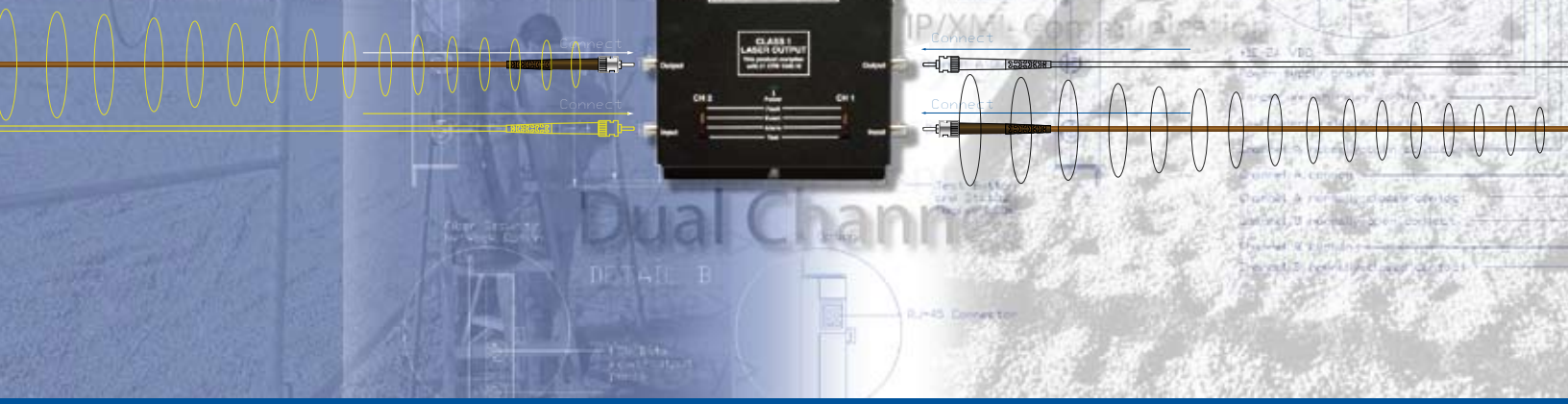# FD-33X Series

Fiber Optic Intrusion Detection System

Fiber SenSys introduces the FD-33X series Fiber Optic Intrusion Detection System, the next generation in intrusion sensor technology. Built upon the fiber optic sensor used by previous Fiber Defender models, the FD-33X series offers the same high performance intrusion detection and resistance to tampering and nuisance alarms users have come to expect from Fiber SenSys' intrusion detection systems.

Twice the power

Need to protect both a buried zone and a chain link fence? With the FD-332 dual-channel alarm processing unit, it's not a problem. The FD-332 allows independent channel calibration so users can connect sensor cable from two separate deployments - even if they're entirely different. Such 2-in-1 operation ensures the FD-332 reduces overall system cost, power and alarm communication requirements over using two separate alarm processors.

Twice the communication

Users can order the FD-33X alarm processors with Fiber Security Network (FSN) compatibility or - for the first time - an IP/XML communication option. The IP/XML option outfits the FD-33X Alarm Processing Unit (APU) with an RJ-45 connector, letting you plug the APU right into your network. Send commands directly to the APU and receive real-time data back, all from the relative comfort of your remote operating station.

With the FSN option, users can plug the APU into Fiber SenSys' unique optical-communication network, raising the allowable distance from one network component (such as an APU) to the next up to 2 kilometers (1.24 miles/6500 ft). The Fiber Security Network also connects up to 127 components or nodes together, creating a versatile network of far-reaching alarm processors and systems.

Same proven reliability

Even with new electronics and a new Digital Signal Processor (DSP), the FD-33X series continues to provide users with an intrusion detection system that is immune to the effects of EMI, lightning, magnetic fields and radio frequency transmissions, all while filtering out sensor cable signals from non-threatening events such as wind, weather and small animals. Such performance guarantees the FD-33X series gives users the system reliability and invulnerability they need at twice the power of previous generations.
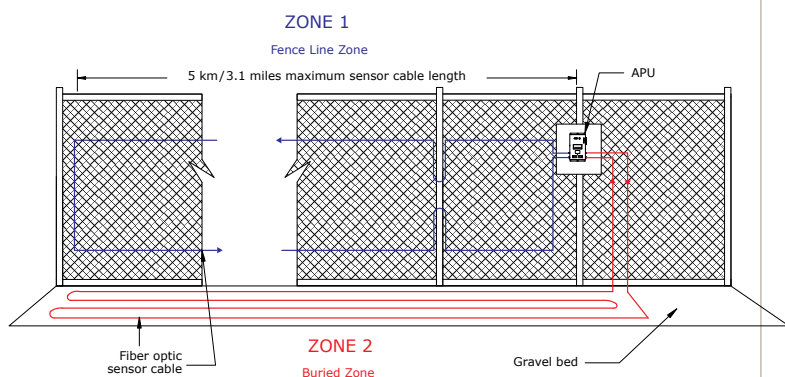
FEATURES

- Series features first dual-channel APU (FD-332)
- Sensor cable immune to EMI, RFI and lightning
- Completely inert and intrinsically safe sensor
- Detection zones of up to 5 km in length
- Intelligent signal processing
- Highly adjustable sensing parameters
- Straight-forward, flexible deployment

Fiber SenSys ®

Dual zone protection

The primary advantage the Model FD-332 offers users is the ability to monitor and protect two zones from the same alarm processing unit. Each channel in the FD-332's dual-channel setup can be calibrated independently, letting you use the same APU to protect both a buried zone and a fence line application. Providing up to 5 kilometers of zone coverage on each channel and the same high level of calibration on each ensures the FD-332 screens out sensor signals from non-threatening events while homing in on those caused by genuine intruders.

ZONE 1
Fence Line Zone

5 km/3.1 miles maximum sensor cable length

APU

Fiber optic
sensor cable

ZONE 2
Buried Zone

Gravel bed

Specifications

System Type	Closed-loop, Vibration-sensing Intrusion Detection System
Sensing Element	Fiber Optic Sensor Cable
Alarm Processing Unit:	
Programming Input	RS-232
Communications Type	RS-232
	RJ-45 (IP Option) for IP/XML Communication
	-- or --
	Fiber Security Network (FSN Option) Optical Communications Loop
Output	100 mA DC Normally-open and Normally-closed Relay Contacts
Signal Discrimination	Digital Signal Processing
Maximum Zone Length	5 km (3.1 miles/16,400 ft)
Sensor Sensitivity	Uniform over entire length
APU Input Power Requirements:	
Voltage	12-24 VDC
Power	3 Watts @ 12 to 24 VDC
Available Models:	
FD-331 (Single Channel)	
FD-332 (Dual Channel)	

CLASS 1 LASER OUTPUT
This product complies with 21 CFR 1040.10

CE

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