

# FD-34X Series

## Remote 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 with the same remote intrusion detection capability as the FD-208, the FD-34X series offer features and communication options never imagined with previous generations of Fiber Defender models.

### Twice the power

Need to protect both a buried zone and a chain link fence? With the FD-342 dual channel alarm processing unit, it's not a problem. The FD-342 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-342 reduces overall system cost, power and alarm communication requirements over using two separate alarm processors.

### Twice the communication

Users can order the FD-34X 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-34X 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-34X 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.

Added to this capability is the incorporation of the FD-34X series' insensitive lead-in cable. Unaffected by vibration and pressure, and offering a maximum allowable length of over 20 km (12.4 miles), these insensitive leads connect the APU to the distant sensor cable, enabling installers to mount the live electronics far away from the protected zone. Effective, capable and far-reaching, the FD-34x series provides first-rate intrusion detection for remote locations with twice the power of previous generations.

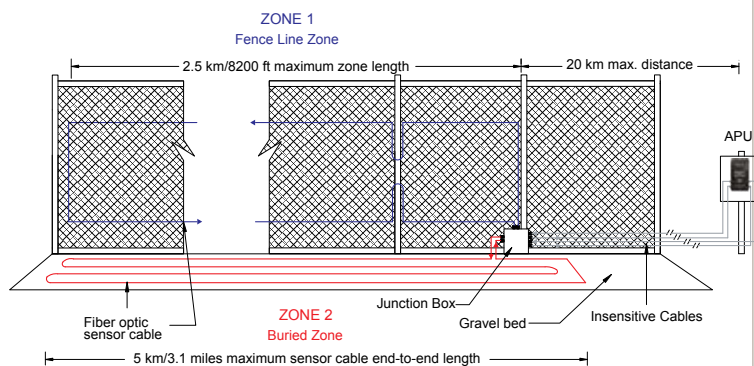
## FEATURES

- First dual channel, remote-capable APU (FD-342)
- Sensor cable immune to EMI, RFI and lightning
- Detection zones of up to 5 km in length
- Insensitive lead-in cable length up to 20 km
- Intelligent signal processing
- Highly adjustable sensing parameters
- XML of FSN communication options

# Remote dual zone protection



Through the use of its insensitive lead-in cables, the Model FD-342 offers users the ability to monitor and protect two zones from the same alarm processing unit, both up to 20 kilometers away. Each channel in the FD-342's dual channel setup can be calibrated independently, enabling 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-342 screens out sensor signals from non-threatening events while homing in on those caused by genuine intrusion attempts.



## 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)
---------------------	----------------------------

Maximum Lead-in Cable Length	20 km (12.4 miles)
------------------------------	--------------------

Sensor Sensitivity	Uniform over entire length
--------------------	----------------------------

APU Input Power Requirements:

Voltage	12-24 VDC
---------	-----------

Power	3 Watts @ 12 to 24 VDC
-------	------------------------

Available Models:

FD-341 (Single Channel)

FD-342 (Dual Channel)

CLASS 1 LASER OUTPUT  
This product complies with 21 CFR 1040.10



**Fiber SenSys**

2925 NW Aloclk Drive, Suite 130

Hillsboro, OR 97124

Phone: +1-503-692-4430

Fax: +1-503-692-4410

www.fibersensys.com