

## FD33X Fiber-Optic Intrusion Detection System Specification Sheet

For a high-performance perimeter intrusion detection system designed for rugged outdoor environments, the **Fiber Defender**® **Model** 

FD331/FD332 Alarm Processing Unit (APU) provides a one or two zone solution. Based on the Fiber SenSys® 300 series fiber-optic system, the FD331 is a single-channel model and the FD332 is a dual-channel alarm processor capable of supporting two separate zones of sensor cable. Used with the Fiber SenSys SC-3 fiber optic sensor cable in conduit, the FD331/FD332 APU forms a complete intrusion detection system.

The FD332 APU can support sensor cable from two separate zone deployments, regardless of their applications, and enables independent control of the zones. Each channel can be programmed separately for fence line or wall deployments, and both channels support up to 5 km (16,400 feet/3.1 miles) of sensor cable.



The FD331/FD332's digital signal processing enables detection and analysis of the sensor cable movement and vibration. An on-board digital signal processor (DSP), combined with the Fiber SenSys SpectraView™ calibration software, provides discrimination between natural phenomena and actual intrusion attempts. The Fiber SenSys pre-programmed algorithms, combined with the optional Model AN-200™ wind anemometer, allows for continuous system adjustments to compensate for the effects of wind.

Features	Applications	
Sensor immune to EMI, RFI and lightning	Electrical substations	
Supports dual-zone operation	Solar farms	
Sensing cable up to 5 km per channel	Aviation and train locations	
Intrinsically safe sensor	Oil and chemical facilities	
TCP/IP communication option	Military facilities	
Optional anemometer integration	Nuclear power locations	
Adaptive wind processing	Correctional facilities	
Linear, uniform sensitivity	Corporate and commercial locations	

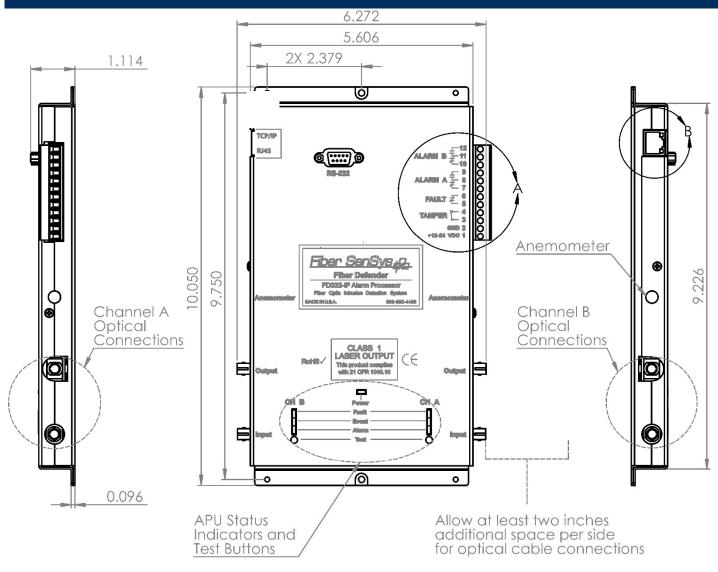


2925 NE Aloclek Drive, #120 Hillsboro, Oregon 97124 USA

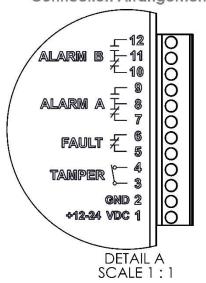
Tel: +1(503) 692-4430 • Toll free (US) +1(888)736-7971

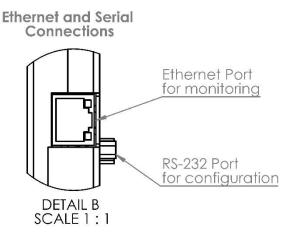
www.fibersensys.com

## Assembly Diagram FD331/FD332 Alarm Processing Unit

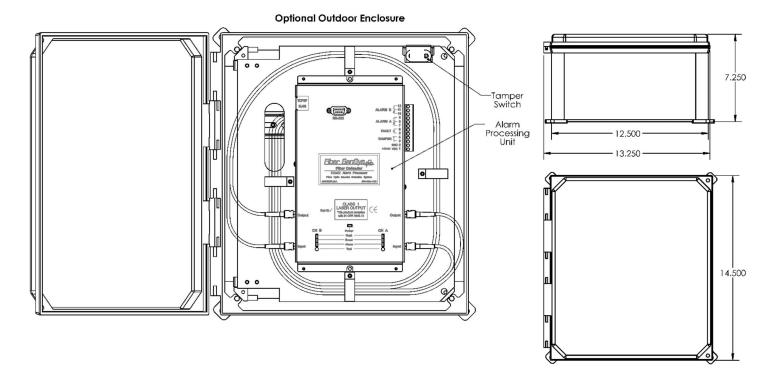




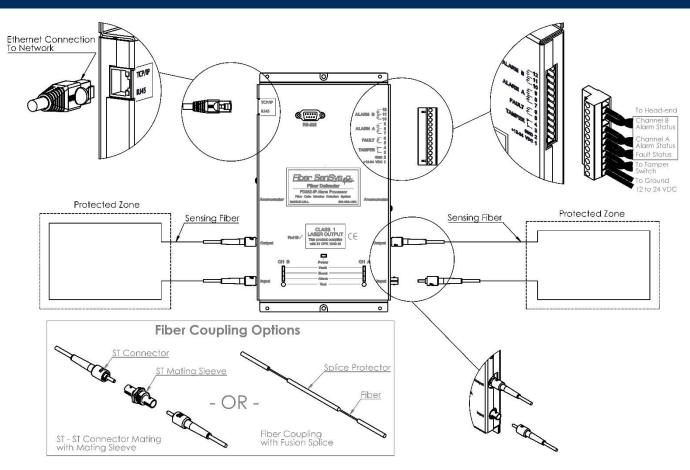




## FD331/FD332 Enclosure Drawing



## FD332 Application Block



FD331/FD332 Product Specifications		
Number of channels	(1) Channel FD331 or (2) Channel FD332	
Voltage / Power	12-24 VDC / 4.0 Watts	
Communications	<ul> <li>TCP/IP to XML via optional RJ-45 connector</li> <li>PC Programming via RS-232 (also with USB adaptor)</li> </ul>	
Fault and Alarm Relays	<ul> <li>Individual dry contact relays for each zone alarm – both Normally Open and Normally Closed (NO / NC)</li> <li>Dry contact relay for fault – Normally Closed (NC)</li> <li>28 to 14 AWG</li> <li>100 mA, 24 VDC non-inductive</li> <li>Dry Contact Resistance 11 Ω typical, 17 Ω max</li> <li>Alarm relay duration adjustable from 0 to 10s</li> </ul>	
Operating Temperature Range	-40°C to 70°C	
Humidity	95% non-condensing	
Maximum Sensor Cable Length	5 km (16,400 feet/3.1 miles) per channel (loop-back design will affect distance)	
Sensor Cable Sensitivity	Uniform over entire length	
APU Dimensions	10.06 in x 5.63 in x 0.94 in (25.55 cm x 14.30 cm x 2.39 cm) H x W x D	
Product compatibility	SpectraView™ and AutoTune™ Calibration Software; Fiber Commander™	

System Ordering Information		
Model / Part Number	Description	Options
SC-3 (fence)	Fiber optic cable	SC-3 duplex or single-strand
SC-3C (fence)	Sensing cable in conduit	Max. continuous length 800m
Outdoor Enclosure	IP66 Enclosure for 300 series APUs	

For more information, contact us at: info@fibersensys.com
Tel: +1(503) 692-4430

Toll free (US) +1(888)736-7971

