FIBER DEFENDER® 300 SERIES for Perimeter Applications:

Fiber Defender FD322:

- Two independent zones, each supports up to 500m of sensing fiber.
- TCP/IP interface utilizing XML, in addition to an RS232 communications port, ensures high-level integration and communication options.
- Includes FD322 tuning software.
- Online certification training.

FD322 Rapid-Fiber™ Kits:

Complete kit with an FD322 Alarm Processor Unit (APU) pre-installed in a 4X NEMA box, tuning software, and pre-terminated robust sensor cable, there is no need for conduit or special tools. Ideal for commercial and industrial chain link applications.

Fiber Defender FD348R:

This rack-mounted APU is equipped with TCP/IP (via XML messaging) and supports sensing cable up to 5km; with insensitive lead-in cable up to 20km for remote APU deployment. The RK-348 rack housing holds up to eight FD348R APUs.

Fiber Defender 33x Series:

- Single- and dual-channel Fiber Defender® APU
- Up to 5km sensing cable
- 25+ configuration parameters
- SpectraView™ software included
- IP-XML model available
- PL1-N Nuclear approved

Fiber Defender 34x Series:

- Single and dual-channel Fiber Defender® APUs can be *remotely* located (up to 20km)
- Up to 5km sensing cable
- 25+ configuration parameters
- SpectraView™ software included
- Ideal for high-security applications requiring remote capable APU
- IP-XML model available
- PL1-N Nuclear approved

FIBER DEFENDER® 500 SERIES for Perimeter Applications:

Fiber Defender FD504/FD508:

The FD504 monitors up to four different sensing fiber (zones), and the FD508 can support up to eight.

Each sensing fiber can be up to 800 meters in length for maximum perimeter protection. Remote APU deployment with insensitive lead-in cable capability.

- Nuisance alarm discrimination with built-in tuning software
- Integration capability with head end/annunciator panels
- Environmental noise compensation
- 1U rack-mount APU
- Linear, uniform sensitivity

Fiber Defender FD525/FD525R:

The FD525s provide the highest level of perimeter security available in the market. The FD525 cable assembly consists of up to 25 individual sensor elements branching off a rugged, insensitive backbone cable. Sensor elements placed along the backbone cable define each zone location.

- Supports up to 25 zones, each fully independent and tunable
- Simultaneous intrusion detection reporting on all zones
- Maximum sensing cable length 800 meters per zone
- Maximum insensitive lead-in cable length from 5km to 10km depending on zone configuration
- XML message communications
- Rack-mount APU fits in a standard 19" data center rack and occupies only 2U of rack height
- Optional relay modules available
- Comes with system distribution assembly
- Includes FD500 Series Software Suite

Fiber Defender FD525-HALO:

Incorporating the proven level of high security demonstrated in our FD500 series of products, the Fiber SenSys FD525-HALO™ is an easy-to-install perimeter solution that economically addresses larger sites.

- Ideal for sites greater than 500m.
- Up to 25 independent zones (max. cable length of 5.8km) that detect multiple simultaneous intrusions
- Additional APUs can easily be combined for larger sites
- The need for conduit or multiple cable paths is eliminated with the use of a single hybrid cable
- Insensitive lead-in cable for remote APU deployment - up to 5km
- Includes FD500 Series Software Suite

FIBER DEFENDER® 7000 SERIES for Perimeter Applications:
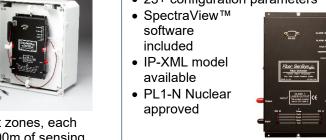
Fiber Defender FD7104:

This Fiber Defender APU features our next generation algorithm. The FD7104, four-zone APU, has a browser-based embedded interface with built-in tuning and calibration software that provides remote tuning, is field-upgradable, and includes an onboard updatable manual.

- Power over Ethernet (PoE)
- Remote mount capable
- Each zone can drive over 5km of combined insensitive/sensing cable for flexible system configurations

Fiber SenSys®
AN OPTEX GROUP COMPANY

Alarm Processor Unit (APU) Models for Perimeters:	FD7104™	FD525™	FD525R™	FD525 HALO™	FD508™	FD504™	FD348R™	FD342™	FD341™	FD332™	FD331™	FD322™[2]
Internal Spectral Data Storage	•						•	•	•	•	•	•
Configurable Parameters/Tuning Specific Parameters	13/7	25+/20+	25+/20+	25+/20+	25+/20+	25+/20+	25+/20	25+/20	25+/20	35/25+	35/25+	14/6+
TCP/IP Compatibility	•	•	•	•	•	•	•	•	•	•	•	•
Remote Tuning Capable	•											
USB I/O	•	•	•	•	•	•						
PoE	•											
RS-232 I/O							•	•	•	•	•	•
Relay Output	•	•[3]	•[3]	•[3]	•	•	•	•	•	•	•	•
19" Rack Mount			•	•	•	•	•					
Din Rail Mountable	•											
Max Zones per APU	4	25	25	25	8	4	1	2	1	2	1	2
Max Sensing Cable Length per Zone	800m	800m	800m	800m	800m	800m	5km	5km	5km	5km	5km	500m
Insensitive Lead-in	5km	10km[1]	10km[1]	10km[1]	5km	5km	20km[6]	20km[6]	20km[6]			
Anemometer (AN-200)[4]										•	•	
Temperature Range	-40° to 70°C	-40° to 70°C	0° to 55°C	0° to 55°C	0° to 55°C	0° to 55°C	0° to 40°C	-40° to 70°C	-40° to 70°C	-40° to 70°C	-40° to 70°C	-40° to 70°C
Maximum Power Consumption	7W	14W	17W	17W	19W	19W	3W	3W	3W	3W	3W	3W
Voltage Requirements	12-24 VDC	10-28 VDC	90-250 VAC	90-250 VAC	12-24 VDC	12-24 VDC	120-240 VAC	12-24 VDC	12-24 VDC	12-24 VDC	12-24 VDC	12-24 VDC
PL-1 Approved (USAF)		•[5]						•	•	•	•	

● Standard product feature   ● Optional product feature; please see product brochure/specification sheet

All APUs are CE/RoHS compliant and made in the USA

Fiber Defender® sensor cables are immune to EMI, RFI, and lightning. All APUs include wind/noise and calibration software.

Note 1: Up to 5km lead in cable to distribution box plus 5km insensitive trunk cable to final zone

Note 2: FD322 also available in FD322-Rapid Fiber™ Kits (for use with chain link style fences only)

Note 3: Optional with purchase of OLM-525 and RLM-525

Note 4: All units come standard with software-based wind rejection. FD33X APUs support anemometer option

Note 5: AEL-approved for Southern-tier (Not approved for Northern-tier, or areas where snow and ice accumulations are normal.)

Note 6: A minimum of one meter of insensitive lead-in is required for this product

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