Fiber SenSys®
AN OPTEX GROUP COMPANY

Point Defender™ PD500™

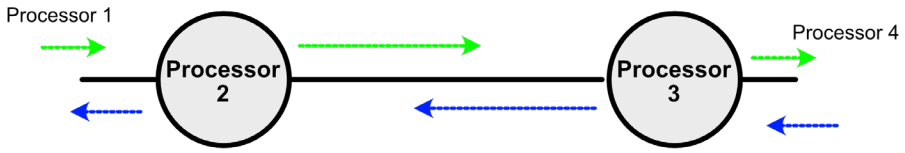
Point Locating Intrusion Detection System With End-to-End Correlation (E2EC)

The **Point Defender PD500™** is a point location intrusion detection system designed for fence deployment. It is the only copper fence sensor with cut-tolerance. By utilizing the Fiber SenSys patented End-to-End Correlation (E2EC™) technology, performance and reliability are greatly improved over other systems.

Key Features:

- 1m point location
- Cut tolerant cable configuration
- Power and data over sensing cable
- Failover processors
- Virtual zones

End-to-End Correlation is accomplished by sending and receiving signals from both ends of the sensing cable. The data from each end is compared and correlated. For an alarm to occur, the intrusion must be seen and verified at the same place and at the same time.



The E2EC techonology is responsible for several important benefits including cut tolerant cable configuation, failover processor configurations, and sensitivity leveling.

Cut Tolerance: If a single cable cut occurs, a processor to the right will continue to detect to the cut point from that direction while the processor on the left will detect to the cut from the left-hand side. This means that no detection area is lost.

Processor Failover: In a similar manner to cut tolerance, if a processor fails, the processor to the right will continue to detect till the point of the failed processor, and the processor to the left will do the same in that direction.

Sensitivity Leveling: As a result of the sensitiviy being averaged from both sides of the cable, the sensitivity across the enire length of that cable is linear. There are no hot or cold spots in the system sensitivity; this creates a predictible system that captures alarms and rejects nuisance sources. These features are critical to sites that value security and reliability.

Applications:

- Correctional facilities
- Commercial yards
- Critical infrastructure
- Oil and gas facilities
- K-12 bus lots
- Storage facilities

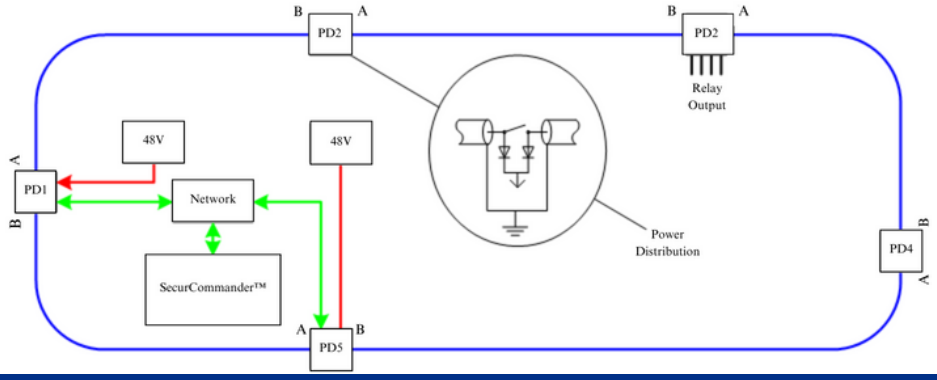
Higher security by design

For more information, contact us at:

info@fibersensys.com
Tel: +1(503) 692-4430
Toll free (US) +1(800) 641-8150
www.fibersensys.com

Point Location Fence Intrusion Detection

The PD500 system provides modern technology to meet your high-security needs.



PD500 PRODUCT SPECIFICATIONS	
Sensor Configuration	Processor to processor for failover/cut tolerance
Number of Zones per APU	Virtual, minimum 3 meter zone
Alarm Inputs	Qty = 1, Logic Level: 1 = Open, 0 = Ground
Sensing Cable	Sense Lock, optimized for sensing, carries power and communications
Cut Tolerant	Yes, a single cable cut will cause no loss of detection area
Failover Processors	A single processor can fail with no loss of sensing area.
Standard, External Power Supply	48-volt DC for processors and sensing cable supply bus
Peak power consumption	5 watts per processor
Front-panel Display	Zone LED indicator: Secure, Alarm, Fault, Inactive for each zone
Communications	RJ45 Ethernet: Configuration, tuning with remote monitoring
Relays Output per Processor **Relay Contact Ratings** **Alarm Relay Default** **Fault Relay** **Remote Relays**	Four (4) 500mA @ 24V Form C: Normally open, and normally closed Form C: Normally open, and normally closed Optional
Operating temperature range	-40˚C to +70˚C
Humidity	95% non-condensing
Dimensions (HxWxD)	11.80 in x 7.85 in x 8.97 in
Maximum Distance Between Processors	500m
Cable Conditioning for Installs	No

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MADE IN

ISO 9001 Quality

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