

## Point Defender<sup>™</sup> PD500<sup>™</sup>

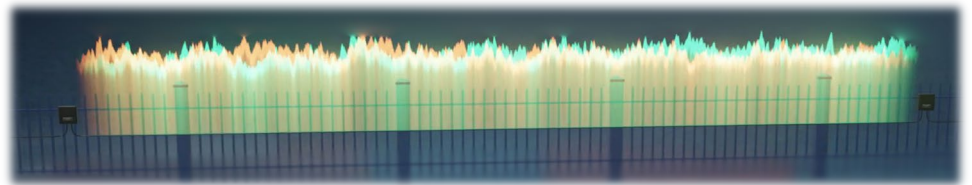
### Point Locating Intrusion Detection System With End-to-End Correlation (E2EC)

The **Point Defender PD500<sup>™</sup>** is a point locating 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<sup>™</sup>) 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 validated. For an alarm to occur, the intrusion must be seen and verified at the same place, time, and frequency.



The E2EC technology is responsible for several important benefits including true cut-tolerant configuration, failover processor configurations, and sensitivity leveling.

**Cut Tolerance:** In the event of a cable being cut, the processor on the right will continue to detect signals up to the cut point from that direction, while the processor on the left will pick up signals from the left side. This ensures that there is no loss in detection coverage.

**Processor Failover:** Like cut tolerance, if one processor fails, the processor on the right will continue to detect signals up to the point of failure, and the processor on the left will do likewise.

**Sensitivity Leveling:** The averaging of sensitivity from both sides of the cable results in a linear sensitivity throughout its length. This eliminates any sensitivity fluctuations in the system, leading to a reliable system that effectively captures alarms while filtering out false triggers. These characteristics are essential for locations that prioritize security and dependability.

#### Applications:

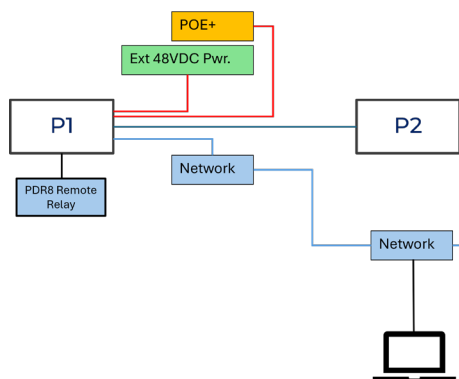
- Correctional facilities
- Commercial yards
- Critical infrastructure
- Oil and gas facilities
- K-12 bus lots
- Storage facilities

*Higher security by design*

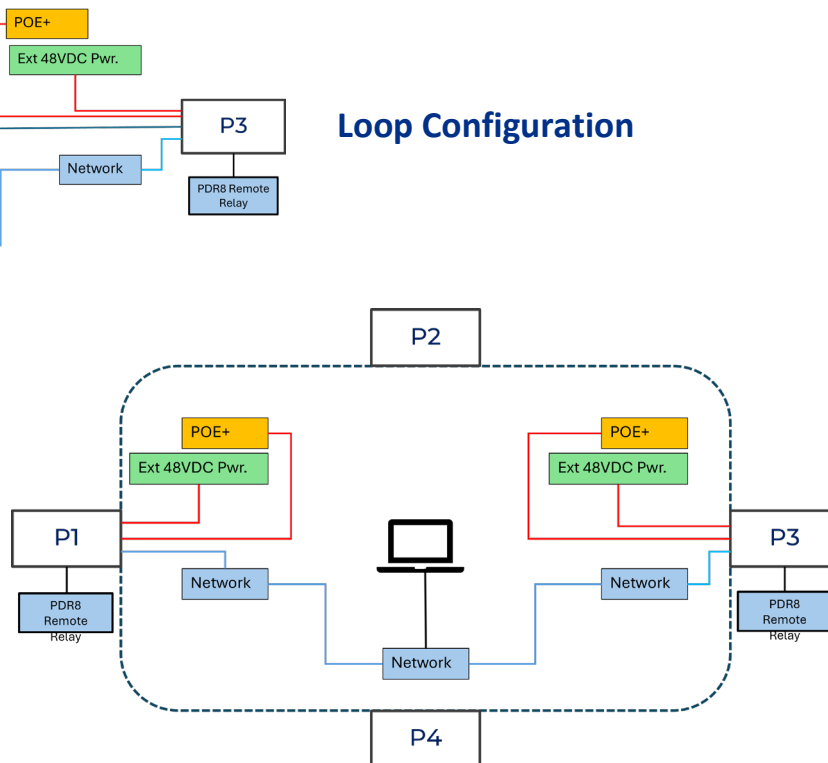
For more information, contact us at:  
[info@fibersensys.com](mailto:info@fibersensys.com)  
Tel: +1(503) 692-4430  
Toll free (US) +1(800) 641-8150  
[www.fibersensys.com](http://www.fibersensys.com)

## Point Location Fence Intrusion Detection

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



**Linear Configuration**



**Loop Configuration**

PD500 PRODUCT SPECIFICATIONS	
<b>E2EC™ Sensor Configuration</b>	500 meters maximum/50 meters minimum between processors
<b>Number of Zones per APU</b>	166 Max Software Zoning; Minimum 3 meter zones
<b>Alarm Inputs/Outputs</b>	4-Form C Output Relays, 2-Input Relays
<b>Sensor Cable</b>	Coaxial type, carries power and data communications. No cable conditioning required
<b>Cut Tolerant</b>	Yes, a single cable cut will cause no loss of detection area
<b>Power/POE/POE+</b>	48-VDC External, up to 4 units per power supply POE, up to 2 units per power supply POE+, up to 4 units per power supply For high security requirements, both can be connected simultaneously
<b>Peak Power Consumption</b>	5 watts per processor
<b>Interface</b>	TCP/IP Web User Interface. Configuration, tuning with remote monitoring
<b>Operating Temperature Range</b>	-40°C to +70°C
<b>Dimensions (HxWxD)</b>	12.14in (30.83cm) x 7.87in (19.99cm) x 5.12in (13cm)
<b>Processor Mounting</b>	Wall/Fence, Optional pole mount
<b>Additional Relay (optional)</b>	Additional remote relay provides 8-Outputs/4-Inputs

For more information, contact us at:  
[info@fibersenssys.com](mailto:info@fibersenssys.com)  
 Tel: +1(503) 692-4430  
 Toll free (US) +1(800) 641-8150  
[www.fibersenssys.com](http://www.fibersenssys.com)



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