# Fiber SenSys®
AN OPTEX GROUP COMPANY

EchoPoint™
Point Locating Distributed Acoustic Sensors

The **EchoPoint™** Distributed Acoustic Sensors (DAS) utilize the latest technologies in fiber optic sensing and classification algorithms to provide the most advanced solution for applications requiring reliable, point locating intrusion detection sensors. These advancements make **EchoPoint™** sensors a key part of the solution in large sites where precise intrusion location is needed.
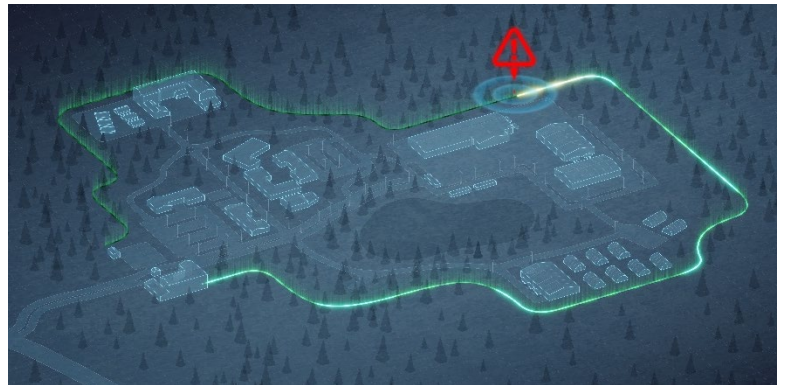
Key Features:
- **Location accuracy of ±6m**
- **Software zoning**
- **XML via TCP/IP and GIS integrations**
- **Maximum fiber optic sensor length of up to 100km per processor**

The **EchoPoint™** systems can identify where an intrusion is taking place within six meters. Virtual zoning allows for the system to be broken down into multiple software-defined detection areas. Zone lengths can range from 10m to 100km. The **EchoPoint™** system can pass zone alarms to video/security management systems via XML/TCP/IP and/or optional relay I/O contact modules. Fiber SenSys continues its cut tolerance and system redundancy with **EchoPoint™.** The systems provide cut tolerance when applied in a loop configuration utilizing both channels. In addition to dual power supplies, **EchoPoint™** systems can provide redundant processing, eliminating the single of point failure. In the unlikely event of a processor failure, the second processor will automatically take over maintaining your perimeter security system.

The **EchoPoint™** systems use an advanced pattern-recognition classification algorithm that has been proven to provide industry-leading performance. **EchoPoint™** systems identify the differences in intrusion attempts by providing fabric cuts, climbs, and events for fence applications. For buried applications, the system identifies the differences between footsteps, manual digging, machine digging, and vehicle traffic events.

Applications:
- **Airports**
- **Distribution Centers**
- **Refineries**
- **Data Conduits**
- **Railways**
- **Corrections**

Higher security by design

For more information, contact us at:
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Loop Configuration
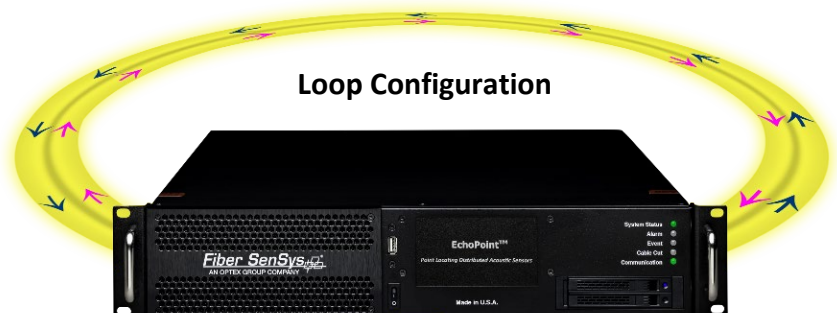
Single Line Configuration

| | Sensor 1 | | Sensor 2 | |

EP9301/EP9302			EP9311/EP9312	
Hardware	Single 2RU Rackmount Device			
Hard Drive	2 Redundant/Hot Swappable			
Max. Sensor Length	10km per processor, 5km per channel		100km per processor, 50km per channel	
System Configuration	Single line (NO cut-tolerance) or Loop (cut-tolerance)			
Detection Application	Fence, Buried, Pipeline, or Hybrid			
Burial Depth (Dependent on Soil type)	.3-.9m(1-3ft)			
	EP9301™	**EP9302™**	**EP9311™**	**EP9312™**
Classification Reporting	NO	YES	NO	YES
Human Walking	NO	YES	NO	YES
Human Running	NO	YES	NO	YES
Vehicles	NO	YES	NO	YES
Hand Tool Digging	NO	YES	NO	YES
Machine Digging	NO	YES	NO	YES
Processor Redundancy (optional)	**EP9301-B™** Below 5km	**EP9302-B™** Below 5km	**EP9311-B20™** 5km-20km	**EP9312-B20™** 5km-20km
			EP9311-B21+™ 20km - 100km	**EP9312-B21+™** 20km - 100km
Electrical				
Input	100/240 VAC, 50-60Hz			
Power	120 watts			
Mechanical				
Dimensions	48x51x9cm (19"x20"x13.5")			
Rack Space	2U			
Weight	11.4 kg(25lbs.)			
Environmental				
Temperature Controller	0°C to 50°C (32°F to 122°F)			
Humidity Controller	20% to 80% non-condensing			
Sensor Fiber Spec				
	Must meet ITU-T G.652.D, and have a maximum attenuation ≤0.25 dB/km at 1550 nm			
Integration				
Built in	XML TCP/IP			
Optional	ADAM I/O modules			
Certifications				
Electromagnetic Compliance	FCC Part 15 Class A EC EMC Directive 2004/108/EC			

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MADE IN

ISO 9001
Quality