

Intrusion Detection Fiber Optic Cable

Overview

Fiber optic intrusion detection uses specialized cables to sense and report any unauthorized access or disturbance along a protected area. It can also be used to protect data conduits and buried pipelines. Advanced adaptive signal processing along with certified SMS/VMS integration options ensure the. Fiber SenSys®, Inc. Our. Perimeter Intrusion Detection Systems are systems used in an external environment to detect the presence of an intruder attempting to breach a perimeter. Unlike traditional electronic sensors, fiber optic. Whether a perimeter is 10 meters long or more than 500 kilometres, both require a solution that delivers a high probability of detection with minimal nuisance alarms. FFT offers world leading solutions for protecting perimeters of all lengths.



Article Content

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What Is Fiber Optic Intrusion Detection and How Does It Work?

These systems use fiber optic cables to monitor for changes caused by physical disturbances. When someone tries to climb a fence, cut a cable, or tamper with a protected area, the ...

Apr 30, 2026

Fiber Optics Used in Intrusion Detection | Learning Tree

Learning Tree examines fiber optic cables in physical intrusion detection systems, which can detect intruders by analyzing disturbances in the light signal.

Jul 03, 2026

Fiber Optic Perimeter and Data and Network Security

FFT utilises a fibre optic cable (new or existing) installed above the pipeline as the sensor, detecting and pinpointing the exact intrusion location. FFT's industry leading advanced signal processing minimises ...

Nov 28, 2025

Fiber Optic Perimeter Intrusion Detection Systems

The cables of fibre optic intrusion detection systems have a relatively discreet appearance when in the open, and can be hidden within fences, or installed underground, which gives them ...

Nov 09, 2025

FEBUS Optics

Febus Optics - FEBUS Optics - Distributed fiber optic sensing for pipeline monitoring, power cable and umbilical monitoring onshore & offshore, well monitoring, intrusion detection, seismic acquisition, ...

Jun 21, 2026

Home | Fiber SenSys Inc.

By co-locating our sensor with data fibers, we can detect disturbances created when an intruder tries to tap or compromise the data cables with malicious intent or by accident. The perfect solution for ...

Jun 09, 2026

Fiber IDS Monitoring | NTest Intrusion Detection Sensors

NTest Fiber IDS detects physical intrusions and water ingress with passive optical sensors. Real-time monitoring ensures infrastructure safety and provides early warnings, eliminating power outages, ...

Aug 12, 2025

FiberPatrol FP1150

When an intruder moves across the ground above a buried fiber optic sensor cable, whether walking, running, or crawling, characteristic vibrations are created. The system distinguishes these from ...

Oct 02, 2025

RaySense Fiber Optic Perimeter Intrusion Detection Systems ...

The deployment of a RaySense fiber-optic intrusion detection system using a single fiber-optic cable is an excellent choice for ensuring reliable perimeter security over a distance of 5 to 100 km/3 to 62 miles.

Contact Us

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