

FD525R Fiber-Optic Intrusion Detection System

Simultaneous-Point Intrusion Detection at the Speed of Light

The latest in multiple-zone intrusion detection technology is now available from Fiber SenSys (FSI) —perimeter protection capable of sensing simultaneous multiple-point intrusion attempts.



When your property or critical resources require the best protection available, the lowest nuisance alarm rates in the industry, and the highest reliability, you need the new **FD525R** Rack-Mounted Alarm Processing Unit (APU) from Fiber SenSys. This all fiber-optic intrusion detection system is capable of detecting up to 5 simultaneous intrusion attempts at more than one location along your perimeter.

Applications:

- Military Facilities
- Oil & Gas Pipelines
- Electrical Substations
- Nuclear Power Plants
- Airports
- Chemical Depots

You will know instantly when an intruder – or a group of intruders – is attempting to breach your perimeter. The **FD525R** is designed to fit in a standard 19” rack and occupies only 2U (3.5”) of rack height. This system is available with an optional **RLM-525™** Relay Module for alarm and fault relay outputs for up to 25 zones. The Relay Module can be mounted on the rear of the APU or up to 25 feet away, connected via a CAT-5 cable supplied with the Relay Module. With up to 25 zones of coverage and as concise as 10 meter resolution, one **FD525R** uses the power of fiber optics to identify intrusion attempts along a perimeter up to 2 kilometers in length. When one or more zones are breached, the system instantly identifies the zone of each intrusion attempt, while continuing to monitor the rest of the perimeter. The **FD525R** uses a convenient USB port for communications.

The **FD525R** system detects and reports intrusion attempts anywhere along the perimeter fence with superior sensitivity and reliability, and identifies the zone where the breach is occurring. This information is graphically displayed and immediately communicated for prompt incident response.

- Supports up to 25 zones per APU
- Simultaneous intrusion detection
- Communications via USB Serial Port, TCP/IP and alarm relay outputs



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Features and Benefits of the FD525R Fiber-Optic Intrusion Detection System

- The FD525R is delivered fully-equipped to support up to 25 fully independent zones, each of which can support up to 800 meters of sensing fiber.
- Durable fiber-optic sensing unaffected by chemical or electrical environmental elements that include corrosion, EMI and lightning strikes.
- TCP/IP interface utilizing XML, in addition to a USB communications port, ensures a high level of integration and communication options.
- The **FD525R** can be fully integrated with our head end system for a total system solution when combined with other security elements such as video cameras and other third-party devices.
- Includes custom tuning software



FD525R Technical Specifications

Parameter	Specification
Application	Perimeter fence (also suitable for indoor security applications)
System Type	Vibration-sensing intrusion detection system
Installation	Sensing fiber in conduit; conduit attached to fence with stainless steel wire ties
Maximum number of zones per APU	25
Event location accuracy	Point resolution accurate to the area within the zone
Maximum protected perimeter length	5 km
Maximum sensing cable per zone	800 meters
Maximum insensitive lead-in cable length	12km for up to 15 zones; 5km for up to 25 zones
Communications	USB Port; IP/XML communications via Ethernet TCP/IP interface Network Port: Ethernet 10 Base-T/100 Base-TX (RJ-45) Alarm Documents: XML documents via Ethernet TCP/IP interface
APU electrical power	<ul style="list-style-type: none"> • Voltage: 90-250 VAC • Maximum Power: 17 Watts at 25° C • Relay Contacts: 100mA, 24 VDC non-inductive
Operating Temperature	0° C to 55° C (32° to 131° F)
Humidity	0 to 95% non-condensing
Dimensions (with mounting ears and relay module)	48.16cm [18.96in] Width 42.52cm [16.74in] Depth 8.81cm [3.47in] Height

For more information, contact us at
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Fiber SenSys 
 High Performance – High Reliability – High Security