

FD525-HALO™ Intrusion Detection System

Streamlined Installation for up to 25 Zones

The FD525-HALO™ is an easy-to-install fiber-optic intrusion detection system with up to 25 independent zones, impressive probability of detection (PD) and un-matched nuisance alarm discrimination.



The FD525-HALO™ from Fiber SenSys, Inc. (FSI) is a perimeter security intrusion detection system designed for quick and easy installation at a competitive price. This solution solves many perimeter security problems inherent at commercial, industrial and critical infrastructure facilities using a security system based on fiber optics. The FD525-HALO™ reduces the installation cost of a typical perimeter security system and makes the FSI intrusion detection system more affordable than ever.

- Streamlined installation with hybrid cable sensor
- Fusion splice capable
- Cut-tolerant design
- Nuisance alarm discrimination

The FD525-HALO™ uses proven technology that has been successfully deployed in thousands of high-security facilities throughout the world, in a low-priced and easy to use sensor. Built with maximum design flexibility, the FD525-HALO™ uses the power of fiber optics to identify intrusion attempts along a perimeter. 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 FD525-HALO™ detects multiple simultaneous intrusion attempts where and when they happen, making the Fiber SenSys system extremely difficult to defeat. This information is graphically displayed and immediately communicated for prompt incident response.



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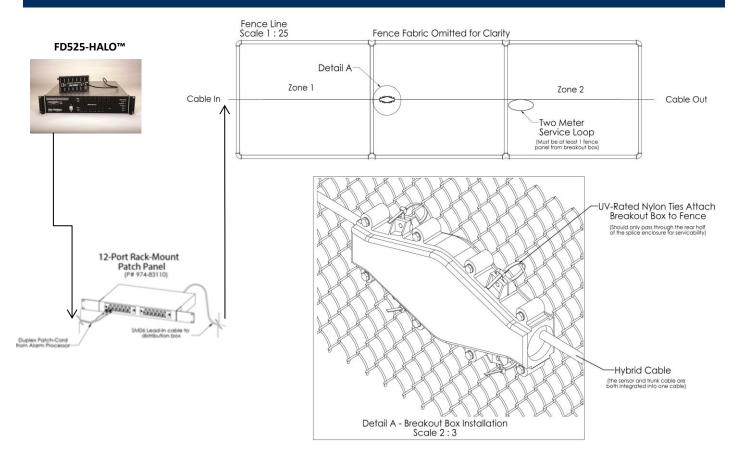
Applications:

- Commercial and Industrial
- Power, Energy and Water Utility sites
- Transportation and Aviation facilities
- Fence or wall mount installations

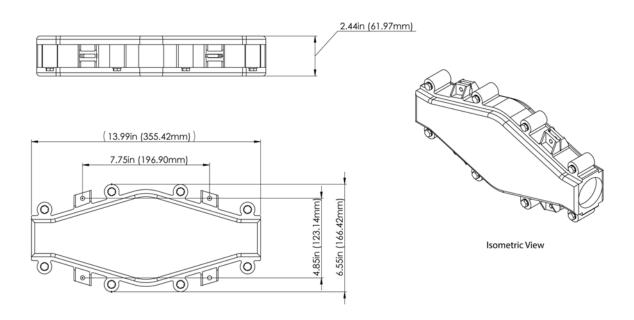
FD525-HALO™ Features and Benefits

- Up to 25 fully independent zones with a maximum cable length of 5.8 km (3.6 miles)
- A unified cable design multiplexed through a multi-fiber hybrid cable and breakout boxes
- Durable fiber-optic sensing unaffected by chemical, electrical or environmental elements such as corrosion, RFI, EMI, and lightning
- XML via Ethernet and relay modules ensures a high level of integration and communication options
- The system can be fully integrated with head end systems for a total system solution when combined with other security elements such as video cameras and other third-party devices.
- Insensitive lead-in cable allows for remote APU deployment up to 5 km maximum length
- Tuning and calibration discrimination software in the FD500 Series Software Suite eliminates nuisance alarms

FD525-HALO™ INSTALLATION DIAGRAM



DISTRIBUTION ASSEMBLY SPECIFICATIONS



Distribution Assembly Specifications		
Exterior Dimensions	Width: 6.55 in (16.64 cm)	
	Length: 14.00 in (35.54 cm)	
	Height: 2.44 in (6.19 cm)	
Industry Standards	ISO 9001 / 2000 manufacturing Compliance	
	Modified Telcordia TR-NWT-000251	
Operating Temperature	-40 degrees to +70 degrees centigrade (-40° to 158° F.)	
Splicing Capacity	Supports up to 48 single-fusion splices.	
Weight	3.5 lbs.	

FD525-HALO™ SPECIFICATIONS

FD525-HALO™ Assembly	
Sensor configuration	Fully independent zones, time-domain multiplexed through a
	multi-fiber hybrid cable and breakout boxes.
Unified cable	One multimode fiber with five single mode fibers integrated into
	a rugged unified cable, custom manufactured to FSI specifications
Insensitive lead-in fiber	Single-mode fiber, custom manufactured to FSI specifications
	Maximum length: 5 km
Zone/cable lengths	Minimum distance between nodes: 20 m (65.6 ft.)
	Maximum distance between nodes: 800 m (2625 ft.)
	Maximum cable length (not including insensitive
	lead-in): 5.8 km (3.6 mi)

Alarm Processing Unit		
System type	Vibration-sensing intrusion detection system	
Number of zones per APU	Up to twenty-five fully independent zones.	
	• 90 to 250 VAC input	
APU power requirements	17 watts power consumption (maximum)	
	Fuse rating: 1.25 A	
Communications	USB serial port for assigning zones to optical ports, and for	
	tuning	
	TCP/IP port for alarm output and XML communication	
	Individual dry contact alarm and fault relays for each zone	
	Dry contact alarm relay for tamper.	
Contact ratings	100 mA @ 24 VDC non-inductive	
Fault relay default	Normally closed	
Alarm relay default	Normally open, and normally closed	
ACC bus fault relay default	Normally closed	
Network Port	Ethernet 10 Base-T/100 Base-TX (RJ-45)	
Dimensions	Height = 8.81 cm (3.47 inch)	
	Width = 48.16 cm (18.96 inch)	
	Length = 42.52 cm (16.74 inch)	
Operating temperature range	0° C to 55° C (32° F to 131° F)	
Operating humidity range	0 to 95% non-condensing	
Compliance	CE, FCC Part 15, RoHS	

The FD525-HALO™ employs an insensitive lead-in cable, up to 25 individual zones, the distribution box and zone kit enclosures. The hybrid cable is attached to a fence, wall, or other perimeter barrier. If the barrier is disturbed, the FD525-HALO™ immediately detects a change and instantly sends operators a message identifying the location of the intrusion attempt.

For more information, contact us at info@fibersensys.com
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High Performance - High Reliability - High Security