

FOIDS®

Fiber Optic Intelligence Detection System



Series 6000 Sensor Systems

FOIDS® is the most advanced fiber optic sensor technology available for fence/wall line perimeter monitoring and intrusion detection.

The system uses single mode fiber optic cable and highly sensitive interferometry technology for intrusion detection along fences and walls up to a zone length of 3.5 miles.

FOIDS® detects climbing, cutting or pulling along the fence/wall line.

FOIDS®

FOIDS® has been proven to outperform other perimeter intrusion detection systems.

Low Lifecycle Cost	<ul style="list-style-type: none"> - Single mode fiber offers long and flexible zone lengths - No power or electronics needed in field - Easy to use (minimal training required) - Self supervision (in-house maintenance)
Best Industry Warranty	- 10 Years
Scalability	<ul style="list-style-type: none"> - Modular design - Secure from 1 to 256 zones - Provides physical protection of data LANs
High Quality	<ul style="list-style-type: none"> - MTBF > 200,000 hours - MTTR 30 minutes
Highly Accurate	<ul style="list-style-type: none"> - High probability of detection (PD) - Adjustable sensitivity control of each zone resulting in low NAR/FAR - Provides alarm discrimination for climbing, lifting, and/or cutting of fence/wall fabric
Government Approved	- Used widely by DoE

Hardware Features	Hardware Benefits
Zone processors are rack mounted plug-in type	- Electronic modules are easily and rapidly replaced and require minimum maintenance
Cut loop detection for operational integrity	- Alarms when optical integrity is disrupted by cutting or disconnecting
Single mode sensor cable is riser rated	<ul style="list-style-type: none"> - Tight-buffer allows easy preparation for termination or splicing - Rated for indoor/outdoor applications - Requires minimum maintenance - Rapid temporary field repairs can be accomplished with mechanical splices

Utility Software Features	Utility Software Benefits
Real time graphic display mode	Allows user to view a real time graphic representation of events occurring at each zone. Displayed in either a trace or bar graph format.
Event recording mode	Allows user to record all events occurring at each zone. Files can be played back to make comprehensive parameter adjustments based on recorded results. Recorded files can also be exported off site for analysis.

Applications

Defense	DoD bases, ports, critical sites and facilities
Energy/Nuclear	DoE & Nuclear power plants
Industrial	Oil & Gas, Pharmaceutical
Commercial	Research & Development Facilities, Corporate Campuses

Note: FOIDS® is operational on various fence and wall types.

Specifications			
FOIDS® maintains specified performance when exposed to environmental conditions.			
Hardware			
Model M3200WM (Wall Mount)			
Laser Classification	Class 1 operational @ 1310nM	Fiber	
Alarm Discrimination Parameter	User selectable	Fiber Optic Cable	Single mode fiber count may vary based on project requirement
Digital Filtering	User selectable	Power Supply	
Audio Function	User selectable	Power Systems	Triple output, regulated linear
Alarm Tracing Facilities	User selectable	Power Input	108-132 VAC 60Hz @ 0.16A
Serial Data Port	RS 232	Output	+5 VDC regulated @ 0.6A +12 VDC regulated @ 0.16A -12 VDC regulated @ 0.16A
Operating Temperature	0 – 50° C	Connectors	
Dimensions	7" W x 9" D x 2" H	Typical Loss	0.2dB
Weight	2.5 lbs.	Relay Closures	User Selectable Form "C"
Model M3200RM (Rack Mount)			
Laser Classification	Class 1 operational @ 1310nM	Power Supply	
Alarm Discrimination Parameter	User selectable	Overload Protection	Fused
Audio Function	User selectable	Circuitry	Solid state
Operating Temperature	0° to 50° C	MTBF	Over 200,000 hours per Mill Handbook 217D
Module Card Cage: Rack Mount Power Supply:	19"W x 12"D x 9"H 19"W x 18.5"D x 7"H	Temperature Rating	0° to 50° C
Operating System	Windows NT, XP, 7	AC Input	100/120/220/240 VAC 47-63 Hz
Weight (CPU & Monitor)	Minimum 65 lbs.	AC Current	2.3/2/1.1/1 Amperes respectively
Serial Data Port	RS 232	DC Output	+5 VDC @ 6 Amperes +12 VDC @ 1.7 Amperes -12 VDC @ 1.7 Amperes
Relay Closures	User Selectable Form "C"	Module Card Cage: Rack Mount Power Supply:	12 to 26 lbs. 26.25 to 30 lbs.
Fiber Cable			
Optics		Connectors	
Single-Mode Optical Fiber Sensor Cable	May vary depending on project specifications	Typical Loss	0.2dB
Operating Temperature	-40° C to +85° C	Fungus/Water/UV resistant and Flame retardant	

ECSI International, Inc.



ISO 9001:2008 Registered

790 Bloomfield Avenue, Building C-1, Clifton, NJ USA 07012 Tel: (973) 574-8555 Fax: (973) 574-8562
E-Mail: ecsi@ecsiinternational.com • Website: <http://www.ecsiinternational.com>