FO-PIDS TWO ZONE



SAFEFENCE INTERFACE FIBER OPTIC PERIMETER INTRUSION DETECTION SYSTEM (TWO ZONE)

MIDFIELD ESTATE, MIDSTREAM NETWORKSENSE.TECH

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PIONEERING ADVANCED FIBER OPTIC SENSING TECHNOLOGY

TECHNOLOGICAL FEATURES



DUAL-ZONE MONITORING

Designed for precision, this two-zone device ensures accurate detection and security across multiple areas.

RUGGED OUTDOOR PROTECTION

Housed in an IP65-rated enclosure, the system is built to withstand harsh outdoor environments, providing reliable operation in all weather conditions.

HIGH-QUALITY OPTICAL CONNECTIVITY

Equipped with an FC/APC optical connector, ensuring low-loss, high-efficiency signal transmission for superior performance.

FLEXIBLE DEPLOYMENT OPTIONS

Supports both overground and underground installations, offering versatility for different security applications.

STANDALONE OPERATION

Functions as a self-sufficient unit, eliminating the need for additional infrastructure while maintaining high reliability.

SEAMLESS NETWORK INTEGRATION

With TCP/IP connectivity, the system enables remote access, real-time monitoring, and easy integration into existing security networks.

SCALABLE & EXPANDABLE

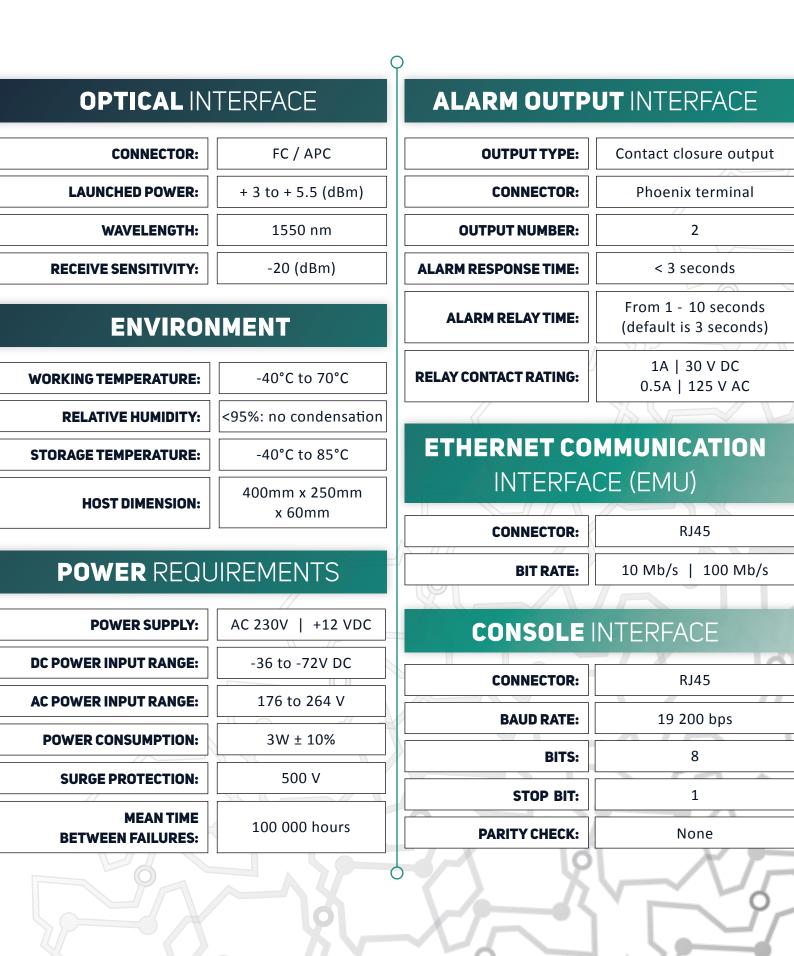
Multiple devices can be cascaded within the same FOPIDS Manager software, allowing for seamless scalability and efficient management of large security setups.

AUTOMATED ALARM TRIGGERING

Features NO/NC dry contacts for each zone, enabling direct activation of third-party security devices such as hooters, sirens, PTZ cameras, or CCTV systems for instant threat response.



SPECIFICATIONS & DETAILS



ALARM INDICATORS & DESCRIPTIONS



INDICATOR	DESCRIPTION			
RUNNING	Green light indicates the system status.			
KONNING	BLINKING: System running normally. ON/OFF: System running abnormally.			
	Red alarm indicators for Zone #1 & Zone #2.			
ALARM1 & ALARM2	ON: Fiber is broken. ON	(3 sec): Intru	sion or tampering.	OFF: No alarm.
	Alarm relay time is configurable between 1 to 10 seconds (default: 3 sec).			efault: 3 sec).
VOICE ALARM	Siren sound and voice descriptions for each type of alarm, configurable in the software.			
ALARM TERMINALS FOR ZONE #1 TO ZONE #16	Contact closure output interface using a Phoenix terminal.			
	Default State: Closed. Alarm Triggered: Opens.			
NC (NORMALLY CLOSED)				
	No Alarm: NC remains closed, NO remains open.	ns open.		
	Power Down / Fiber Break: NC stays open, NO stays closed.			
COM (COMMON TERMINAL)	Shared terminal for alarm connections.			
NO (NORMALLY OPEN)	Default State: Open	ı.	Alarm Trigger	ed: Closes.

SOFTWARE SPECIFICATIONS

CENTRALIZED ALARM MANAGEMENT SYSTEM

CENTRALISED ALARM MANAGEMENT SOFTWARE CAN BE INTERFACED WITH THIRD PARTY COMMAND CONTROL SYSTEMS

DEVICE INTERFACE PORT:	Ethernet port- RJ45 connector	DEVICE INTERFACE: T	CP/IP-http web interface
ALERT INFORMATION	Date of alarm	Time of alarm	Zone of alarm
UPDATES	Log Information	Zo	one Information
GUI	Region Map	Buzzer	LED
REAL TIME INDICATION	Zone representation blink indication (Green to Red)		
	Selected voice / sound alarm		
SYSTEM REQUIREMENTS	Embedded computer		
	RJ45 / Ethernet connectivity		
	Operating System: Windows 7 and above		
	RAM: Minimum 4GB		
	System Type: 64-bit operating	g system	





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FIBER OPTIC PERIMETER INTRUSION DETECTION SYSTEM

- Supports **above-ground** and **underground** installation.
- Uses a **passive single-mode optical fiber** for high-sensitivity monitoring.
- Seamlessly integrates with camera surveillance systems for enhanced security.

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- Supports customized zone configurations for flexible security coverage.
- Above-Ground Deployment: Suitable for fences and walls.
- Underground Deployment: Designed for buried installation under soil.

ZONE SPECIFICATIONS

DEPLOYMENT TYPE	OVER GROUND	UNDERGROUND	
NUMBER OF ZONES (PER DEVICE)	2		
TYPICAL ZONE LENGTH	250 m		
DEPLOYMENT SCENARIOS	Fence Walls	Under Soil Concrete	
DEPTH	Depends on height of fence / wall	1.5 feet below soil	
	Climbing fence	Digging	
	Cutting fence	Normal walking	
EVENTS DETECTED	Cutting fiber	Running	
	Tampering fence / wall	Drilling ground	
	Drilling wall	Excavations	
DEPLOYMENT PATTERNS	Parallel lines Wave	Parallel lines Wave Dolphin	



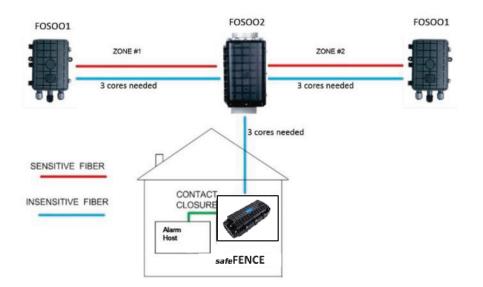




SPECIFICATIONS	1X2 FUSED SPLITTER (FOS 001)	1X4 PLC SPLITTER (FOS 002)	
INSERTION LOSS	<= 3.7 dB <= 7.40 dB		
UNIFORMITY	<= 0.70 dB	<= 0.80 dB	
REFLECTANCE	<= -50 dB		
BAND PASS	1310 and 1550 nm +/- 40 nm		
OPERATING TEMPERATURE	-20°C to 55°C		
CONNECTOR TYPE	None or FC/APC		
DEGREE OF PROTECTION	IP 65	IP 68	
DIMENSION	240mm x 190mm x 89mm	385mm x 248mm x120mm	
MATERIAL	ABS engineering Plastic		

FIBER OPTIC SENSOR CABLE

DESCRIPTION	SPECIFICATIONS	
FIBER TYPE	G.652D (OS2) Single Mode	
ATTENUATION	At 1310 nm : ≤0.38 dB / km	
	At 1550 nm : ≤0.25 dB / km	
	At 1625 nm : ≤0.26 dB / km]
CHROMATIC DISPERSION	At 1285-1330 nm : ≤3.5 ps / nm.km (min)	
	At 1550 nm : ≤18 ps / nm.km	
	At 1625 nm : ≤23 ps / nm.km]2
ZERO DISPERSION WAVELENGTH	1300 - 1324 nm]7
ZERO DISPERSION SLOPE	≤0.092 ps / nm².km	
POLARISATION MODE DISPERSION	≤ 0.20 ps / vkm	
MODE FIELD DIAMETER	At 1310 nm : 9.2 ± 0.4 μm	
	At 1550 nm : 10.4 ± 0.5 μm]
CLADDING DIAMETER	125 ± 0.7 μm	
COATING DIAMETER	Uncoloured : 245 ± 10 μm]
OPERATION / INSTALLATION / STORAGE TEMPERATURE	-30 °C to 70 °C	





ORDERING INFORMATION

PART NUMBER	DESCRIPTION
FO-CPTV-2Z	2-Zone Device
FO-RFM001-JC-IP65	FOS001: Optical Splitter
FO-RFM003-JC-IP65	FOS002: Optical Splitter
UNIT OF MEASUREMENT (UOM):	Each

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