

FOSS SAFE-MAX PLUS



ACCURACY BASED PERIMETER
INTRUSION DETECTION SYSTEM

MIDFIELD ESTATE, MIDSTREAM

NETWORKSENSE.TECH

CONTACT: **083 376 8427**

INFO@**NETWORKSENSE.TECH**

JOHN@**NETWORKSENSE.TECH**



PIONEERING ADVANCED FIBER OPTIC SENSING TECHNOLOGY

PRODUCT OVERVIEW



ADVANCED FIBER-OPTIC INTRUSION DETECTION

Developed by FOSS, this precise positioning fiber-optic intrusion detection system enables real-time monitoring of long-distance fiber perimeters while pinpointing the exact location of threats.

HIGH-ACCURACY THREAT DETECTION

With an impressive ± 1 meter detection accuracy and ± 10 meters event detection precision, the system ensures precise and reliable threat localization.

CONSISTENT & STABLE PERFORMANCE

Engineered for long-term stability, the system maintains accurate positioning without degradation over time.

HIGH-SPEED DATA PROCESSING

Incorporates a high-speed, high-precision data acquisition unit and advanced DSP algorithms for superior signal analysis and threat classification.

LINUX-BASED HIGH-PRECISION POSITIONING

Powered by a Linux operating system, the system utilizes a sophisticated positioning algorithm for unmatched accuracy in intrusion detection.

EMBEDDED HIGH-SPEED DATA ACQUISITION

Features a PCIe-based high-speed data acquisition card, enabling rapid and accurate data conversion for real-time monitoring.

PRODUCT OVERVIEW



BUILT-IN PROTECTION AGAINST EXTERNAL INTERFERENCE

Designed with ESD and surge protection circuits, the system is immune to lightning strikes and electromagnetic interference (EMI) for uninterrupted performance.

ROBUST ENVIRONMENTAL RESILIENCE

Operates in ambient temperatures ranging from -10°C to $+55^{\circ}\text{C}$, ensuring reliable functionality in diverse weather conditions.

RACK-MOUNTABLE FOR EASY INTEGRATION

Designed to fit a 19" 4U rack, making it convenient for data center or security control room installations.

CENTRALIZED ALARM MANAGEMENT

Supports multi-interrogator alarm management within a single FOPIDS Manager software, allowing streamlined security monitoring.

SEAMLESS THIRD-PARTY INTEGRATION

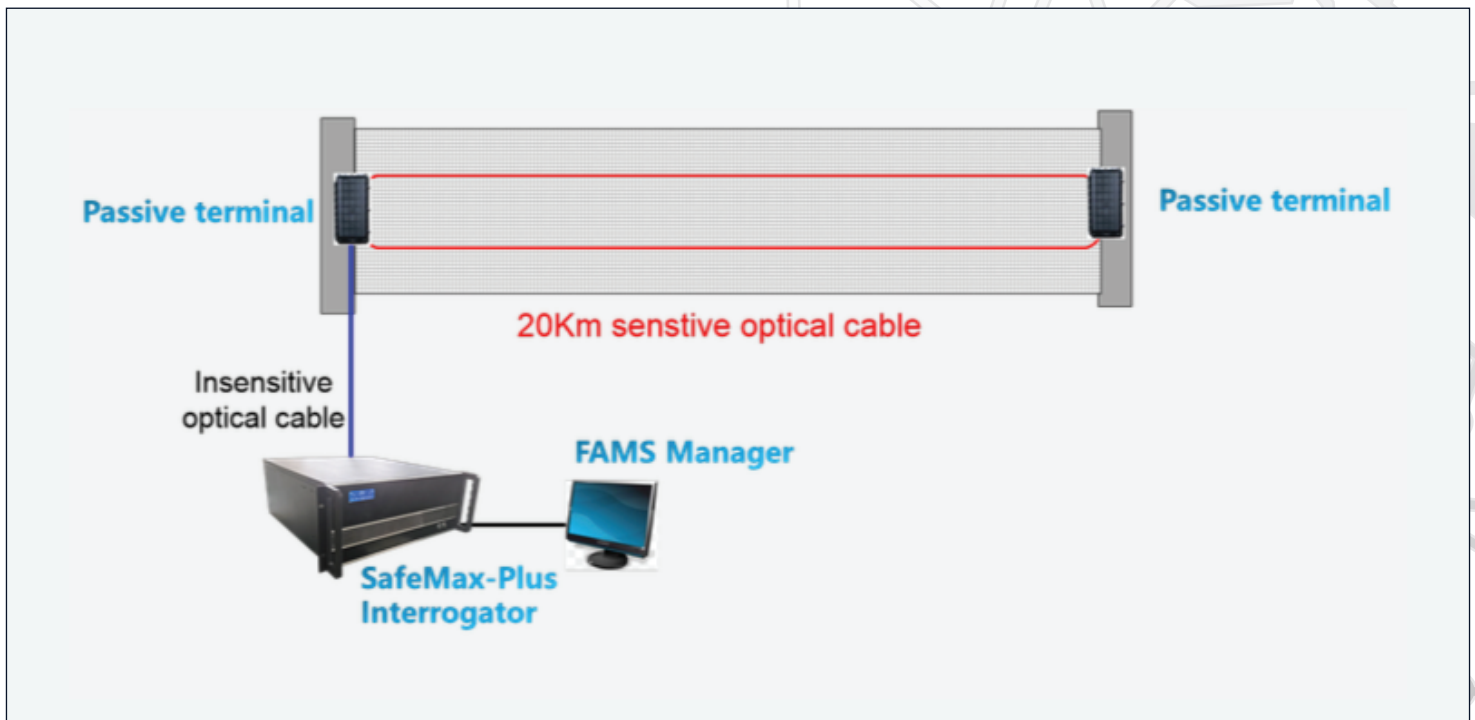
Offers SDKs and APIs for easy integration with third-party security systems and platforms.

USER-FRIENDLY WEB-BASED ALARM MANAGEMENT

Includes a web-based alarm management interface, providing remote access, real-time alerts, and simplified system control from any location.

FUNCTIONAL SPECIFICATIONS

DEVICE VARIANT	SAFEMAX-PLUS 5	SAFEMAX-PLUS 10	SAFEMAX-PLUS 20
DISTANCE RANGE	5 KMs	10 KMs	20 KMs
OPTICAL WAVELENGTH	1550 nm		
OPTICAL CHANNEL OPTIONS	1 Channel 2 Channels		
PIN-POINT LOCATION ACCURACY	± 1 meter		
EVENT DETECTION ACCURACY	± 10 meters		
RECEIVER SENSITIVITY	-20dBm		



INTERFACES & INDICATORS



OPTICAL CONNECTOR / SENSOR FIBER	SC / APC
	Single Mode 9 / 125 μm SMF28e or equivalent
	ITU-T G.652 (standard single mode)
OPTICAL CONNECTOR / SENSOR FIBER	Input and Output Type: Contact closure input and output
	Connector: Phoenix terminal
	Output Port: 8; Input port: 8
	FOSS Alert Monitoring System Software (FAMS) – Power
	Unidirectional & Bidirectional 3rd Party Software Integration
	2 X Ethernet (1GbE / 10GbE) 2 X USB 3.0
RESPONSE TIME	Alarm responding time: ≤1s
	Fiber Cutting Alarm Responding Time: ≤1s
	Alarm Relay Time: Can be adjusted Default: 3 Seconds
POWER CONSUMPTION	Power Supply: 220 VAC
	Voltage Input Range: 100V - 240V
	Power Consumption: Not more than 300 Watts
ENVIRONMENTAL	Working Temperature: -10°C - 55°C
	Relative Humidity: ≤95% No Condensation
	Storage Temperature: -40°C - 85°C
DIMENSION	Unit Dimensions: 482.5mm x 177.8mm x 450mm
	Degree of Protection: IP21

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