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INTERNATIONAL LTD
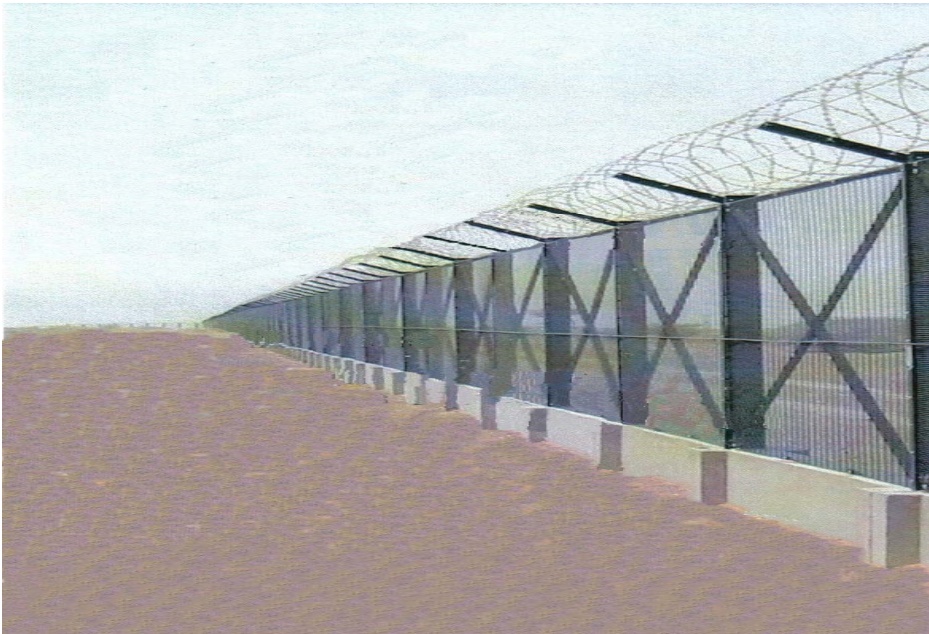
Telephone : +44 (01295 756300
Fax : +44 (0)1295 756302
E-Mail : info@wi-ltd.com
Website : www.wi-ltd.com

WG FOSS Perimeter Fence Protection System

The WG Fibre Optic Security System (FOSS) Perimeter Fence Protection System is a fibre optic perimeter security detection and alarm locating system, detecting intrusions to within 25 metres along perimeter fences up to 80km long, multiple systems can be networked to monitor long distances such as country borders.

Applications

- Airports
- Country borders
- Government installations
- Large storage depots
- Military bases
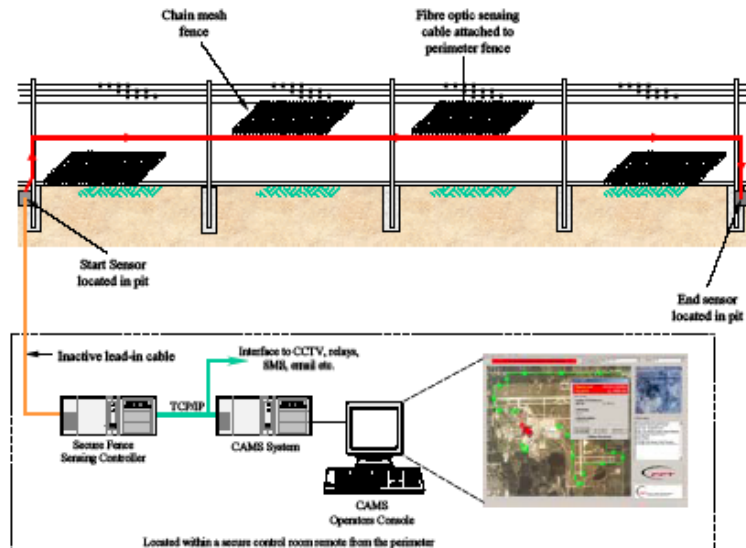- Oil refineries
- Ports
- Power plants
- Prisons

Features

- Handles long distances and long fences up to 80km with a single system
- Location of an event to within 25 metres accuracy, as close as 10 metres when fitted to a chain link fence that complies with recognised standards, as confirmed through independent testing
- Knowing exactly where the intrusion occurred security staff can ensure a rapid response, or activate specific CCTV imagery
- System intelligence
- There are No electronics in the field

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Operation

Simple to operate, the WG FOSS Perimeter Fence Protection system delivers outstanding levels of detection and alarm source location combined with extremely low levels of nuisance alarm rates.

It is maintenance free, operating easily and reliably under a wide range of operational and environmental conditions day after day, year after year.
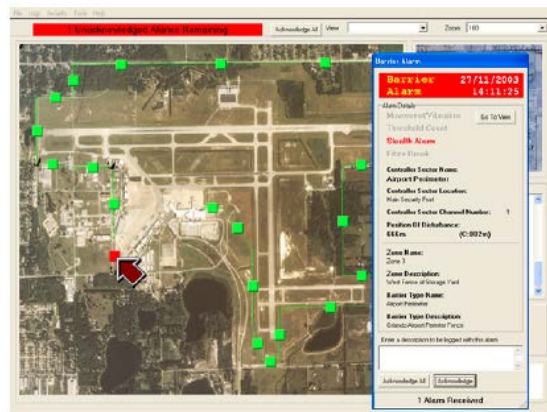

At the heart of the system is the intelligence built into the sensing controller, a laser beam is transmitted along the fibre optic cable and the returned signal is automatically monitored and analysed for disturbances.

This returned signal is intelligently processed to minimise false alarms, while still detecting and reacting to the smallest hostile event.

Simple and intuitive to use, the WG FOSS Perimeter Fence Protection System delivers all of the information security staff require, combined with the ability to interface and activate CCTV systems, lighting, gates, email, or a myriad of other external devices and systems.

The area or the zone where the alarm is triggered is instantly displayed onto a sitemap using bright icons, and events are automatically logged into a secure database.

A signal can then be sent via Ethernet directly to the security monitoring system (SMS), CCTV camera system, email system, or other external monitoring.

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Specifications

- Alarm Monitoring: Real-time distributed monitoring
- Controller Dimensions: H175mm x W485mm x D530mm
- Electrical Specifications Input voltage 110-240VAC, 50-60Hz, switch selectable, max 300 watts
- Expected life > 15 years
- Fibre Optic Sensor: Custom UV stabilised single mode fibre optic sensor cable.
- Location Accuracy: Within 25 metres anywhere along the sensor cable
- Multiple systems can be networked to protect longer fence lines
- Note: All field-installed components are passive and require no power for communications, or electronics on the fence line
- Nuisance Alarm Rate (NAR): Less than 3% due to multi-parameter intelligent signal analysis, discarding non-intrusion and environmental events
- Operating Temperature Range: Westminster Sensor Cables: -40°C to +70°C;
- Probability of Detection (POD): Independently tested to better than 95% due to intelligent signal processing and analysis of disturbances
- Provides an intuitive map-based operator GUI, and interfaces to CCTV systems, email systems, external SMS systems, lighting, gates etc. via TCP/IP
- Seasonal Calibration: No seasonal calibration or adjustments required
- Sensing Configuration: Distributed sensor with a total optical path length of up to 80 km per controller
- System Interface: TTL or optional dry contacts, TCP/IP, CAMS (Central Alarm Monitoring System) software
- Virtual Zones are created in the CAMS software to suit specific site requirements
- Warranty Comprehensive 2 year warranty on hardware and software with on-going warranty extension program available for the life of the product
- Weight: 24 Kg, 19" rack mounted, 4U high
- Zone Length & Number: Infinitely variable

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