INNOFENCE

MAGAL SOLUTIONS
Integrate to Innovate

Description

InnoFence is designed to look like a regular high quality fence with a concealed fiber optic sensor for intrusion detection. It is made from pre-fabricated modules that are between 120 to 300 cm (3.9 to 9.8 ft.) and supplied in standard lengths of 2 meters (6.6 ft). It can be mounted on a low concrete base (free-standing) or wall-mounted.

An alarm will be caused by cutting, bending, tampering with the upper cover or climbing (with or without a ladder).

Fiber optic sensing components are mounted within the top channel of the module's frame (bottom channel on wall-mounted). The concrete base is usually 200 mm (8 in.) wide and 500 mm (20 in.) high.

How it Works

The operating principal of the InnoFence is based on light transmission which is controlled inside a fiber optic cable. Any reduction in light transmission will generate a signal, which is evaluated by the processor, to decide upon generating an alarm.

The fiber optic components are mounted within the top channel of the module's frame (bottom channel on a wall mounted system). It is installed to detect the mechanical forces acting on the module during a forced entry through or over it.

A special fence-mounted processor called a FOST (Fiber Optic System Transponder) receives and transmits light signals through the fibers in the fence modules, processes them and determines whether an alarm signal should be sent to the control system.

Markets

InnoFence is the perfect solution for high profiles sites such as VIP residences, government buildings and embassies. It is also installed at airports and industrial / commercial facilities worldwide

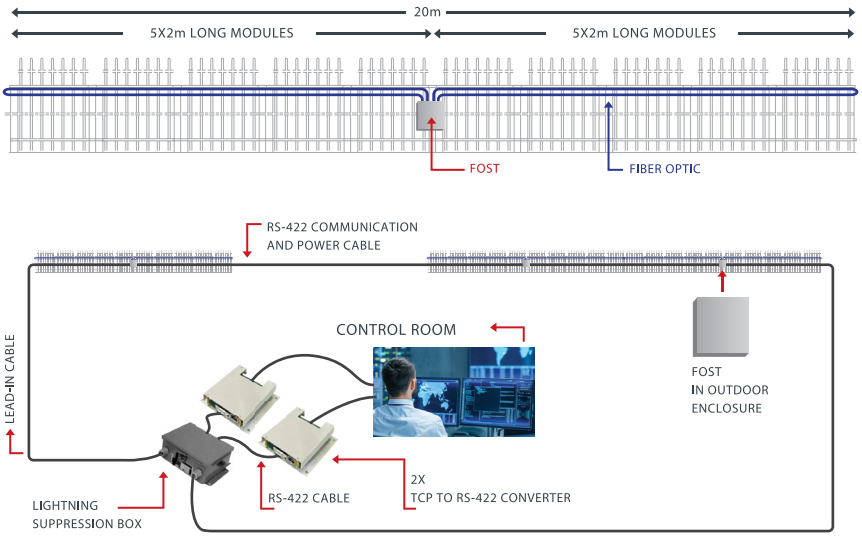
Core Features

- Decorative and innocent looking
- Non-obtrusive
- Modular in height and length
- Exceptional Probability of Detection (PD)
- Adjustable sensitivity
- Minimum number of false alarms
- No moving parts assures negligible false alarms
- Low maintenance
- Low power consumption - ~2 W per 1 Km
- Long life expectancy

Technical Specifications

Basic Layout

DTR offers complimentary parts to create a full system. Gates, cross corners and places where obstructions are a challenge, can be addressed through customization.



FOST

(Fiber Optic Sensor Transponder)

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THE FOST is fitted in an outdoor weatherproof enclosure with a covered tamper switch.

Physical

Standard Module
2 m (6.6 ft.) long, 2.5 m (8.2 ft.) high

Optional Heights
Minimum: 120 Cm (3.9 Ft.)

Maximum: 120 Cm (3.9 Ft.)

Material: Minimum: 120 Cm (3.9 Ft.)

Finish: Galvanized and primer painted

Environmental

Inputs
2 fiber optic cables

2 end of line resistor supervised dry

contact inputs

1 tamper cover switch

Outputs:
Alarm relay - one Normally Open (NO) contact

Fail / alarm relay - one NO contact

Contact rating - 500 mA @ 50 V

Data Communication:
Proprietary RS-422

Transient Suppression:
On data and power input and on relay output contacts

Control:
On data and power input and on relay output contacts

Status Indicating (LEDs):
Alarm by the fiber optic cables

Disconnection of fiber optic cable

Fail

Light transmission

Input Voltage: Input Voltage

Current Consumption:
RS-422 option - 4 mA

Dry contact option - 45 mA max.

Operating Temperature (Standard)
-20 °C to 70 °C (-4 °F to 158 °F)

Operating Temperature (Extended)-40 °C to 70 °C (-40 °F to 158 °F)

Humidity: RS-422 option - 4 mA

Unit Size:
Weather-proof enclosure per NEMA

12 / 13 - 240 x 155 x 100 mm (9.4 x 6.1 x 3.9 in.)

Specifications are subject to change without prior notice.