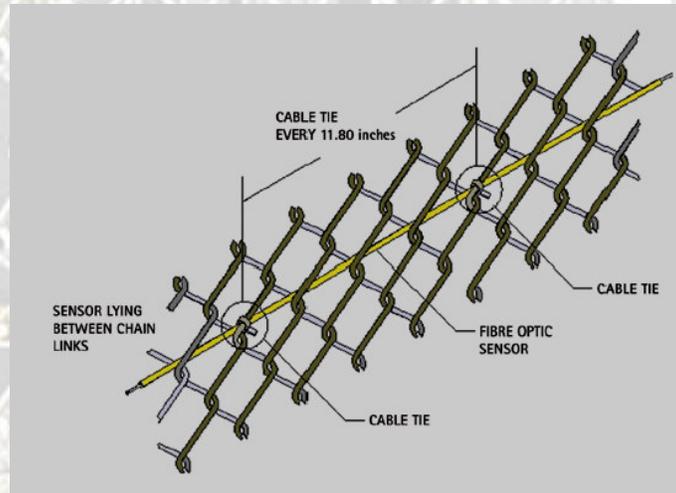


Rottweiler Security Perimeter Fence Protection



Optical Fence Detection Security

Many businesses need protection at outer fences with early warning of an intruder prior to the intruder actually making attempts to enter the building. To detect the presence of an intruder at the outer perimeter, we have a solution called Optical Fence.

Optical Fence security products are specifically designed to provide reliable, early warning of intruders by detecting any attempt to cut, climb, or crawl under perimeter fences. The Optical Fence System consists of a processor module that transmits a laser beam through a fiber optic sensor cable that is sensitive to a wide range of vibration, flexing, compression, and cutting, while at the same time minimizing nuisance alarms from natural causes. The Optical Fence Sensor relies on laser transmitted light as the detection method. It is intrinsically safe as it does not radiate signals, nor is it susceptible to electrical interference. This makes it particularly suitable for use in hazardous industrial locations where there is risk of fire or explosion.

The Optical Fence Detection cable is very easy to install and field-repair or replacement of a damaged section of cable.

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Optical Fence Detection Processor Module

Disturbance of the sensor cable is detected in the Detection Processor and analyzed with a digital signal processor.

If the disturbance exceeds pre-set conditions, an alarm will be generated. Automatic environmental compensation algorithms simultaneously ensure the highest probability of detection of an intruder and minimize nuisance alarms from natural causes such as deer or thunder. The Processor is factory set to enable rapid installation and commissioning. Application-specific set-up parameters can be adjusted in the field using built-in switches with the LED display.

The Detection processor can also be configured and adjusted remotely using the integral serial communications ports and optional software tools. Data collection and alarm management systems can be integrated with the processor, which allows for external alarm threshold adjustment and has input/output for connection of control devices or sensors.

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Processor

High-performance microcontroller with integral digital signal processor (DSP) Analog-to-Digital (A/D) converter.

Sensor Cable and Connections

processor is designed for use with Optical Fence Detection sensor cables.

Method of Detection

Laser diode transmitter with optical interference pattern detection using photo diode receiver.

Power Requirement

11.0 - 14.0 V DC @ 300 mA

Alarm Output Relay

to 1A @ 12 V DC

Ancillary Outputs (Open Collector)

Two open-collector outputs with a maximum rating of 100 mA @ 24 V DC

Status / Digital Inputs

Three tamper-protected status inputs are available which may be derived from switches or relay contacts, open collectors or CMOS / TTL level digital signal. The digital signal inputs provide the means by which external equipment may control the unit's auto-threshold values.

Serial Communications Ports

isolated RS232 / RS485 serial port for alarm transmission, remote setup or diagnostics. One non-isolated RS232 serial port for local high-level diagnostics.

Installation, Test and Diagnostic Aids

The Optical Fence Detection Processor Module incorporates comprising toggle switch, pushbutton and 3 seven-segment displays all necessary settings to be easily configured specialist test equipment. A number of operation indicators are also included to facilitate test and audio monitor output is also available which may commissioning aid.

An optional PC-based software package is available remote, high-level test, set-up and diagnostics.

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Connections

Electrical connections to the processor module disconnect screw terminals. Serial communications RJ45 connector.

Environmental Specification

Operating Temperature Range: 14° F to 158° F
Operating Humidity: Up to 95% at 104° F non-condensing
Storage Temperature Range: -40° F to 158° F

Electromagnetic Compatibility (EMC)

Optical Fence Detection meets the requirements of EN55022:Directive 93/68/EEC.

Dimensions

Printed Circuit Board: 6.22 inches x 4.37 inches. Technical Specifications
Due to continuous improvements, specifications are subject to change without prior notice.