IntelliFIBER

Fiber Optic Disturbance Sensor

- Fiber optic sensor cable
- Proven Intelli-FLEX Processor
- Quick and Easy to Install
- Zone Lengths up to 2 km (1.25 miles)
- High Probability of Detection
- Independent Detection of Fence Cutting and Climbing
- Adaptive Algorithms virtually eliminate environmental nuisance alarms
- Immune to EMI and RFI and lightning
- Audio "Listen-In" Capability
- Available in Standalone and Network Versions
- Color graphic display for the network version
- Remote adjustment of all parameters in each zone

IntelliFIBER is a unique optical disturbance sensor that provides increased security, reduced life-cycle costs and maximum performance for demanding applications. Fiber optic sensor cable is extremely versatile and can be applied to virtually any fence. It is particularly useful for difficult rigid fence, masonry wall and rooftop applications and is recommended where there is risk of EMI, RFI or lightning.

IntelliFIBER retains the industry leading performance, proven nuisance alarm rejection and exceptional detection characteristics of Senstar-Stellar's Intelli-FLEX' digital processor while adding enhanced EMI, RFI and lightning protection and allowing zone lengths of up to 2000 meters (6500 ft). Any Intelli-FLEX processor can be converted to fiber optic sensing by adding an IntelliFIBER optic sensing module and substituting IntelliFIBER optic cable for the microphonic cable.

IntelliFIBER's modular design preserves your investment in Senstar-Stellar perimeter protection by providing a cost-effective upgrade for an entire Intelli-FLEX site or for only those zones that require the enhanced capabilities of fiber optic sensing. Existing power1, data and audio assessment circuits are retained and no modifications are required to the existing control system.

1. Additional power supplies may be required to convert network powered Intelli-FLEX systems

Senstar Stellar

IntelliFIBER Fiber Optic Disturbance Sensor

SPECIFICATIONS

IntelliFIBER Optical Module
Attaches to any Intelli-FLEX processor to convert one or both zones from microphonic to fiber optic sensor cable. Requires only 1.2 watts of additional power per fiber optic zone and,if retrofitted to an existing Intelli-FLEX site, all power, data and audio assessment circuits can be retained.Each fiber optic zone has separate field adjustable laser output and signal gain controls. An onboard LED meter measures received light in each zone to permit optimization of the laser output for different sensor cable lengths. Two female ST-style fiber optic connectors (1 input/ 1 output) are provided per zone.
Alarm and Supervision monitoring is via dry contacts on Intelli-FLEX relay processors or, in the case of multiplex processors,via a redundant alarm network (fiber optic or copper) to a Senstar-Stellar alarm annunciation and control system. Programmable operating parameters using a hand-held configuration module or by remote network control for multiplex processors. See Intelli-FLEX data sheet for processor specifications and options.

Models
Model IFL-FOM1 Single-Zone IntelliFIBER Optical Module – 1.2 watts
Model IFL-FOM2 Two-Zone IntelliFIBER Optical Module – 2.4 watts

Environment
Operating temperature
-40°C to +70°C (-40°F to +158°F) ambient
Relative Humidity to 95% non-condensing

Backward Compatibility
Fully compatible with existing Intelli-FLEX Installations.

Cable Accessories
Model IFL-FZM Zone Termination Module; IP65/NEMA 4 enclosure to protect end-of-zone fiber optic splices
Model IFL-FOT Fiber Optic Connector Toolkit
Model IFL-FOC Fiber Optic ST-Style Connectors (qty 10)
Model IFL-FOB Fiber Optic ST-Style Connector Barrels (qty 10)
Model 2366 UV-resistant cable tie wraps

Intelli-FLEX Dual Zone Processors
See Intelli-FLEX data sheet for additional details
Digital Signal Processor on a mounting plate in a steel IP66/NEMA 4 enclosure. Requires 12 to 15 VDC local input power or 18 to 56 VDC networked input power. Multiplex processors have two auxiliary device inputs and two auxiliary relay outputs for remote device control

Models
Model IFL-04ENC Intelli-FLEX processor with dry contact interface
Model IFL-06ENC Intelli-FLEX processor with SENNET copper interface
Model IFL-07ENC Intelli-FLEX processor with PLC copper interface
Model IFL-09ENC Intelli-FLEX processor with SENNET fiber optic interface
Model IFL-010ENC Intelli-FLEX processor with PLC fiber optic interface

Standard Processor Features
Lightning Ar restor Packag e
Transorbs and gas discharge devices on all relay outputs,copper communication lines and power supply input
Supervision
Monitoring of the sensor cable to detect tampering & light loss
Door Tamper - integral “Hall Effect”magnetic field sensor
Environment
Operating temperature
-40°C to +70°C (-40°F to +158°F) ambient
Relative Humidity to 95% non-condensing
Standard Enclosur e
Weatherproof Steel IP66/NEMA 4 - 26 H x 21 W x 10.8 cm D (10 1/4 H x 8 1/4 W x 4 1/4 in.D)
Weight:5.0 kg (11 lbs)
Option:Stainless steel enclosure
Accessories
Model LAM-800 Audio Module for “Listen-In”option;attaches to any Intelli-FLEX processor
Model ACR-800 Audio Console / Repeater
Model 2499 Weather Station
Model 2495 Configuration Module (see below)

Configuration Module
Hand-held molded ABS plastic.
Interconnecting Cable with 8-pin Modular Snap-In Connectors
Input - Membrane tactile switches in graphics panel
Indicators/Display - Two-character LED alphanumeric display and point LED’s
Operating Temperature -30°C (-22°F) to +40°C (+104°F)

User-Programmable Parameters
Cut - threshold,minimum count,and time window
Climb - threshold,minimum duration,and time window
Cipher-Protected Pr og rammable Parameter s
Common Mode Rejection - Enable/Disable
Ambient Compensation - Value, Enable/Disable
Peak Trigger Values
Cut Profile Values
Alarm Output Relay Activation Time

Intelli-FLEX Sennet Central Controller
Commercial PC Computer chassis with a Color Monitor,Keyboard and Mouse
Sennet Network Controller to control the RS-485 network
Interfaces - one parallel port for printer output,one serial port to Network Controller,one serial port for mouse
Maximum Number of Sensor Zones - 64 (32 Intelli-FLEX Processors)
Display of all sensor alarm conditions
Standard graphical display,optional Custom Map display
Simple menu-driven alarm response functions
Set operating parameters remotely for each processor
Optional pass-through alarm relay inputs/outputs
Easily expanded to a Senstar 100 system

Senstar 100
See product data sheet for the Senstar 100

StarNeT 1000
See product data sheet for the StarNeT 1000

* Specifications subject to change without prior notice.

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