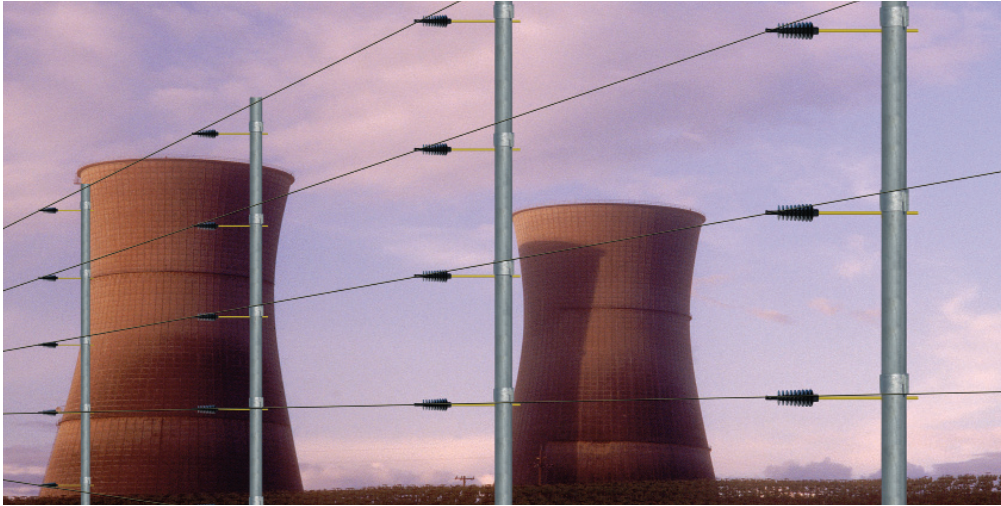


Intelli-FIELD

Electrostatic Field Disturbance Sensor



Intelli-FIELD® is a terrain-following, volumetric sensor that creates an electrostatic field between parallel field and sense wires. The resulting zone of detection is high and narrow and surrounds the wires. Typically, a four-wire system (two field wires and two sense wires) is used for a field approximately 2.5 m (8 ft.) high, 1.0 m (3.3 ft.) wide at the center and up to 150 m (500 ft.) long. The wires are mounted on freestanding posts or on a fence, adjacent to or between physical barriers. In controlled applications, the wire spacing may be altered and the wires may be mounted on walls, roofs and other structures. For higher fences, six-wire and eight-wire systems are available to extend the height of the detection field to greater than 5.0 m (16 ft.). The wires present a visible, formidable barrier to the potential intruder.

The Intelli-FIELD system is the next generation of Senstar-Stellar's proven E-Field® sensor technology and is easily retrofitted to existing Series 600, 680 and 800/5000 systems. Its digital signal processor is designed to significantly improve performance and reduce False Alarm Rate/Nuisance Alarm Rate (FAR/NAR).

An innovative electronic design allows the Intelli-FIELD system to use a lower voltage to excite the field generating wires. While grounding is required for the mounting posts, costly ground planes are not necessary.

The electronic processor also automatically adjusts and calibrates the output signal strength to the transducer environment. This

enhanced design reduces the criticality of the electrical field components and minimizes the effects of environmental contamination of the insulators. The result is less maintenance and simpler installation.

Powerful digital algorithms analyze the signal and minimize alarms from signals caused by birds and vegetation. The net effect is an advanced electrostatic field sensor that performs with few nuisance alarms from most environmental causes and with increased probability of detection.

The Intelli-FIELD processor analyzes a compound signal consisting of amplitude change (mass of the intruder), rate of change (movement of the intruder) and the time the intruder is in the detection field. When these changes occur within specified limits, an intrusion alarm is activated.

Intelli-FIELD will detect a mass of 35 kg (77 lbs.) moving at a speed between 5 cm (2 in.) per second to 8 m (26 ft.) per second, with a probability of detection greater than 95%.

A simple hand-held Configuration Module enables the user to easily set the parameters for each zone of the single/dual zone processor and monitor alarms locally. Optionally, with a multiplexed adapter, parameters can also be adjusted and maintenance diagnostics analyzed from the StarNet™ 1000 centralized monitoring and control system.

Narrow-pattern, terrain-following volumetric field sensor

Ideal for free-standing, fence-mounted, roof and wall applications

Intelligent digital signal processing

Backward compatible with all existing E-Field installations

Simple set-up with hand-held Configuration Module

Crossfire Communications Protocol supports remote adjustment of all operating parameters

Automatic adjustment algorithms eliminate manual maintenance calibrations

SPECIFICATIONS

Standalone Dual Zone Processor

(With relay outputs)

- Digital Signal Processor on a baseplate in a CSA Type 4 (equivalent to IP66/NEMA 4) enclosure
- Two inputs for remote test and six relay outputs for alarm, sensor wire supervision, fail and tamper
- Form A/B, 1.0A maximum, 30 VAC/DC maximum non-inductive load
- Local adjustment of operating parameters using a hand-held Configuration Module

Input Power Requirements

- Network Power: 20 to 56 VDC, 12.2 W max (without auxiliary power) - Auxiliary Power Output Available 12 VDC @ 300 mA
- Local Power: 10.5 to 15 VDC @ 1A (min)

Network Dual Zone Processor

(For copper or fiber data network)

- Optional Copper twisted pair network interface with support for Magal-Senstar StarNeT 1000 Crossfire protocol
- Optional fiber optic network interface with support for Magal-Senstar StarNeT 1000 Crossfire protocol
- Four auxiliary device inputs with six relay outputs for remote device control
- Alarm output information (including auxiliaries) via data network to Central Controller
- Remote adjustment of individual processor operating parameters from the Central Controller over the communications network
- Local adjustment of operating parameters using a hand-held Configuration Module

Lightning Arrestor

- Transorbs and gas discharge devices on all relay outputs, copper communication lines and power supply input

Tamper Switch

- Integral "Hall Effect" magnetic field switch for enclosure open circuit
- Additional mechanical switch input available

Supervision

- Monitoring of generator and sense wires to detect opens, shorts and grounding
- Detection of excessive loading of field generators
- Monitoring of the signal coupling between the generator and sense wires to detect requirements for site maintenance

Environment

Operating temperature

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

Standard Enclosure

- Weatherproof Aluminum CSA Type 4 (equivalent to IP66/NEMA 4) - 35 H x 30 W x 15 cm D (14 H x 12 W x 6 in. D)
- Weight: 2.9 kg (6.4 lbs.)

Preconditioning and Testing

- Each processor is burned in at a temperature of 70°C (+158°F)
- Each control unit is functionally tested for operation at -40°C, +25°C, +70°C (-40°F, +77°F, +158°F)



Standard Components

- Standard terminator
- Sense filter (Isolation transformer)
- Solid stainless steel #305 Tefzel coated generator and sense wires
- All-weather support insulators
- Standard hardware kits for 3-wire, 4-wire, 6-wire and 8-wire deployment on free-standing posts, fences, walls and rooftops.

Configuration Module

- Hand-held panel with push button switches and LED display
- Interconnecting cable with 8-pin modular snap-in connectors
- Operating temperature: -30°C (-22°F) to +40°C (+104°F)

Options

- High Reliability Processor with full factory test documentation
- Stainless steel enclosure, IP66/NEMA 4X
- High performance support insulators

Upgrades to Previous E-Field Systems

- Intelli-FIELD processor is backward compatible to earlier E-Field processors
- Intelli-FIELD processor improves existing E-Field system performance and lowers nuisance alarms
- Existing E-Field systems can be upgraded to a network architecture
- Upgrade kits available

* Specifications subject to change without prior notice.



ISO 9001:2000
CGSB Registered
Certificate 95711

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