

Lynx

The invisible intrusion detection system

Description – Lynx is the fifth generation, covert outdoor perimeter security intrusion detection sensor that generates an invisible radar detection field around buried sensor cables. If an intruder disturbs the field, an alarm is declared and the location of the intrusion is determined and allocated to an alarm zone. Targets are detected based on their mass and movement.

Invisible alert – Lynx does not interfere with the appearance of your property, yet ensures a reliable intrusion detection.

4 alarm zones plus additional gate zones provide the solution for detection of up to 800 m.

The sensor cable can be installed in almost all types of soil and surfaces such as asphalt, concrete etc.

It operates reliably under scrubs, trees or similar type of vegetation.



Lynx - the OmniTrax "light" version

Senstar adapts the proven detection system OmniTrax® to the requirements of smaller sites. It is the ideal solution for private residences, small industrial assets and public areas.

Lynx is a stand alone system and is connected via dry contacts to the alarm panels. The total perimeter to be controlled can be divided by software settings to 4 different alarm zones.

Additionally gate zones can be defined which are disarmed by a simple contact wired to the Lynx when the gate is open.

Lynx, like the "full version" OmniTrax, uses the Senstar sensor cables SC1 or SC2, and OC2. The required total length of cable can be tailored by selecting from the range of sensor cables starting from 50 m up to 2 times 400 m.

NEW - The OC2 sensor cables allow an installation with spacing of only 10-15 cm. Now the "long " cables can be installed in one single cable trench. This gives a significant saving of costs for the ground works.

A calibration walk along the cable measures and equalizes the different sensitivity due to soil types etc. and levels the

detection threshold throughout the complete cable length.

Additional the configuration can be adjusted for more or less sensitive segments.

The adjustments are done conveniently by the calibration software UCM, installed on a Windows PC and the USB connection.

Benefits

- Completely covert
- Uniform detection of 99% Pd (Probability of detection)
- Low False and Nuisance Alarm Rate (FAR / NAR)
- Insensitive to wind, rain, snow, hail, fog, extreme temperatures, seismic vibration, acoustic, magnetic effects or blowing debris
- Low Vulnerability to defeat (Vd) due to the covert installation
- Site aesthetics left unchanged
- Narrow spacing of sensor cables requires low installation time and costs

Markets

- Private residences
- Critical commercial and industrial assets
- Utilities
- Fuel storage
- Historic / cultural sites
- Communication sites

Technical Specifications

PERFORMANCE

- Probability of detection (Pd) 99% with 95% confidence, optimized for the detection of an upright 35 kg, or larger person, moving between 0.5 m per second to 8 m per second. This is based on penetration of the intruder through the detection zone
- False Alarm Rate (FAR) - less than 1 alarm per zone per month, where unknown causes are verified with full visual assessment
- Nuisance Alarm Rate (NAR) - site dependent

FEATURES

- Direct digital receiver
- Up to 4 alarm zones
- 4 relay outputs, Form C type: Alarm 1 - Alarm 4, Sensor cable supervision, configurable fail
- Contact specification: maximal 1A, 30 VAC/VDC
- Auxiliary inputs: 2 supervised inputs
- Over voltage protection: tranzorb and non-radioactive gas discharge devices on all I/O ports
- USB port: UCM interface

HOUSING

- Processor on a base plate in a white aluminum enclosure IP56 (NEMA 4):
- 40 H x 23.5 L x 16.5 cm W - indoor use only

ENVIRONMENTAL

- Temperature range: -40° C to +70° C
- Relative humidity up to 95% non-condensing

SENSOR CABLE OC2

- Two pairs of sensor cable (side A and side B)
- Contiguous graded design with integrated lead-in
- Length of lead-in section: 20 m
- Active cable length: 300 m or 400 m
- Outer diameter of the cable: 12 mm
- Each cable set comes with a kit of 6 TNC connectors and 42 ferrite beads for field installation

SENSOR CABLE SC2

- Two pairs of sensor cable (side A and side B)
- Contiguous graded design with integrated lead-in
- Length of lead-in section: 20 m
- Active cable length: 50, 100, 150 or 200 m
- Outer diameter of the cable: 8 mm
- Each cable set comes with a kit of 4 TNC connectors and 20 ferrite beads for field installation

SENSOR CABLE SC1

- Two sensor cables (side A and side B)
- Transmit and Receive cable in a single jacket
- Contiguous graded design with integrated lead-in
- Length of lead-in section: 20 m
- Active cable length: 50, 100, 150 or 200 m
- Outer diameter of the cable: 8.5 x 15 mm
- Each cable set comes with a kit of 4 TNC connectors and 10 ferrite beads for field installation

POWER REQUIREMENTS

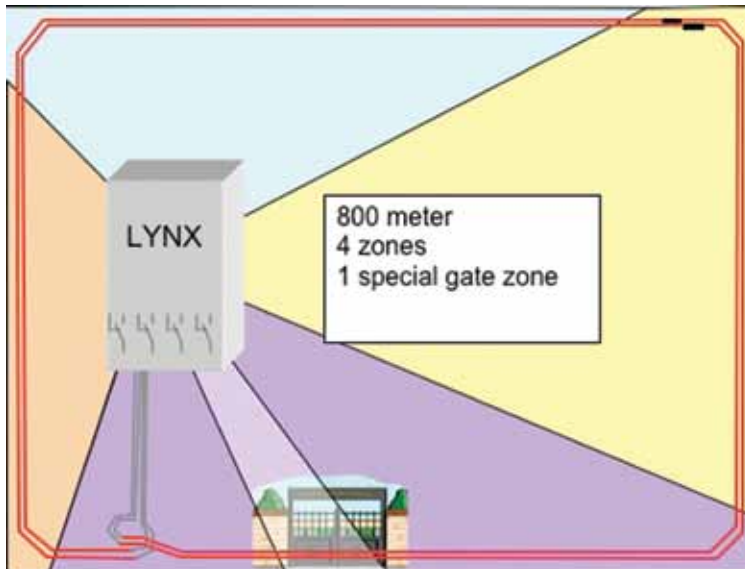
- 12 to 48 VDC @ max 9 W
- Integrated battery back-up

CABLE ACCESSORIES

- Stand-alone decouplers
- Termination kits
- Tool kits
- Cable repair kits including ferrite beads / connectors

GENERAL ACCESSORIES

- Lightning protection for sensor cables
- Protective telecom enclosure accepts OmniTrax enclosure and power supply unit: 98.4 H x 42.5 W x 27.3 cm D - light green enamel over steel protection (IP33)



The OmniTrax buried cable detection system is protected by US patents 5.914.655 and 5.834.688 (with others pending) and other international patents.

Specifications are subject to change without prior notice.