Protection System
SEL TERRA

The SEL TERRA is a hidden underground triboelectric protection system designed to detect an intruder walking or running within the protected zone, as well as a person jumping from a fence into the protected area. The system is particularly suitable for sites with irregular border shapes, areas without a physical fence, and locations where maintaining the visual appearance of the site is important.



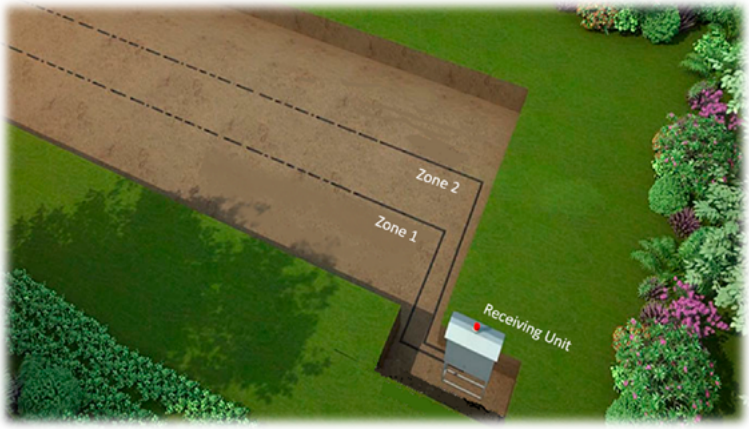
The system uses a passive sensitive element installed underground. Mechanical deformation of the ground above the sensitive element generates electrical signals, which are detected and processed by the SEL TERRA processor. When the detected signal characteristics exceed the configured detection thresholds, the processor generates an alarm signal. The underground installation provides a concealed detection line while allowing the protected area to remain free of visible sensors, cables or other detection equipment. The sensitive element can be installed in different types of ground, including sand, clay, stone and other natural ground conditions.

Application

- Critical infrastructure
- Industrial and commercial facilities
- Restricted-access areas
- Sites with irregular border geometry
- Areas where installation of a fence is not possible
- Facilities requiring protection without visible detection equipment

Features

- Hidden underground protection with no visible detection elements;
- Sensitive element can be installed in sand, clay, stone and other types of ground;
- Detects walking, running and jumping within the protected zone;
- Separate alarm outputs for each protection zone;
- Tamper detection for cable integrity and processor enclosure opening;
- Up to 4 independent protection zones;
- Up to 500 m of sensitive element per zone;
- Continuous 24-hour operation.



Specifications

Protection zones	2 or 4 independent zones
Sensitive element length	Up to 500 m per zone
Sensitive element installation depth	2-15 cm
Ground types	Sand, clay, stone and other ground
Alarm setting types	Walking / Running; Walking + Jumping
Detection probability	Not less than 0,98
Event log	Up to 1000 records
Certificates	CE
Country of manufacture	Lithuania
Operating temperature	-40...+50°C
Power supply	10-30 V DC
Current consumption	< 25 mA
Low-voltage alarm	Below 9.5 V