



# SERIR COMPACT 50

**SERIR COMPACT 50** is an intrusion detection system for metal fences suitable for the protection of small perimeters. It offers a very high detection capability as well as a quick and easy installation. It is composed of special piezodynamic sensors and a sophisticated electronic analysis unit **which detect cut, climb and breakthrough attempts** on chain-link or welded fences and semirigid panels.

**Modular.** The system is supplied in a kit containing all the components to protect a 50-metre perimeter. Such a length can be expanded for further 50 metres, for a total length of 100 metres, by means of a special expansion module.

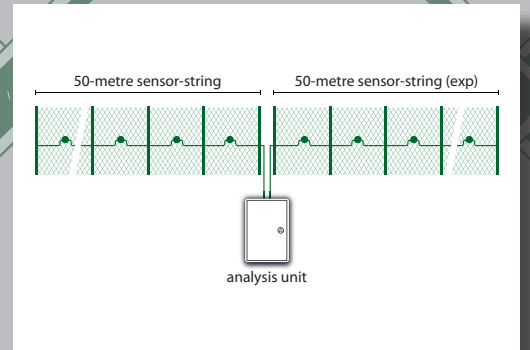
**Easy to install.** To simplify and quicken the installation of the system, the analysis unit and the sensor-strings are factory wired and tested.

**Flexible.** The sensor-strings adapt to the conformation of the ground and the direction of the perimeter.

**Reliable.** The system offers a very high tolerance towards adverse weather conditions (rain, wind and snow), climbing vegetation and man-made factors such as nearby heavy traffic roads and railways.

**Intelligent.** The analysis unit discriminates and signals the different techniques to breach a fence, including the cut of each single mesh.

**Maintenance free.** Thanks to the use of heavy duty and passive sensors, the system does not need any planned maintenance.



## 50-metre module

- **An analysis unit** composed of an IP44 box, where the following devices are placed:
  - a power supply board;
  - a main board managing one SERIR 50 sensor-string and interfacing the control panel;
  - a buffer battery (charged by the main board) operating during mains failure or interruptions.
- **A pre-wired string of SERIR 50 piezodynamic sensors** (sensor-string) for the protection of 50-metre fencing. The sensor-string can be provided with 16 detectors (3-metre spacing between them), 20 detectors (2.5-metre spacing) or 25 detectors (2-metre spacing).
- **A 25-metre SERIR 50 cable** hank to connect the sensor-string to the analysis unit.
- **A wiring kit containing** the necessities to fix the sensor-string cable to the fence, to make and resin the junction and termination of the string.



Analysis unit



SERIR 50 sensor



Wiring kit

## 50-metre expansion module

- **An expansion board** for the management of a second sensor-string. This board is installed inside the analysis unit, therefore no additional cabinet is needed.
- **A pre-wired string of SERIR 50 piezodynamic sensors** (sensor-string) for the protection of 50-metre fencing. The sensor-string can be provided with 16 detectors (3-metre spacing between them), 20 detectors (2.5-metre spacing) or 25 detectors (2-metre spacing).
- **A 25-metre SERIR 50 cable** hank to connect the sensor-string to the analysis unit.
- **A wiring kit containing** the necessities to fix the sensor-string cable to the fence and to seal the junction and the termination cases.



Expansion board



SERIR 50 sensor



Wiring kit

## Technical features:

### Analisis unit:

- Power supply: 230 Vac  $\pm$  10% 50 Hz
- Current consumption: 50mA
- Operating temperature:  $-25^{\circ}$  C  $\div$   $+80^{\circ}$  C
- Box dimensions: 200 x 255 x 135 mm (w x h x d)
- Box features: IP44, polyester
- Weight of the preassembled box: 2.9 Kilos
- Analog inputs: 1 sensor-string with resistor balancing
- NC relay outputs (1A): intrusion alarm, tamper
- OC outputs: prealarm, mains loss (230 Vac), battery presence
- Calibrations and settings: via service software (PC Windows using a RS232 port)
- CPU: 32 bits, 16 MHz
- Event memory: more than 20.000 events

### Expansion board:

- Analog inputs: 1 sensor-string with resistor balancing
- NC relay outputs (1A): intrusion alarm, tamper

- OC outputs: prealarm

### Wiring kit:

- 2 packs of tie-wraps (100 pcs each pack)
- 1 pack of two-component polyurethane resin (100 gr)
- 2 junction/termination cases

### Sensor-string:

- 16 SERIR 50 sensors, 3-metre spacing, colour grey or green  
or
- 20 SERIR 50 sensors, 2.5-metre spacing, colour grey or green  
or
- 25 SERIR 50 sensors, 2-metre spacing, colour grey or green

### Connection cable:

- 25-metre hank, colour grey or green



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