



# TORSUS COMPACT 50

**TORSUS COMPACT 50** is an intrusion detection system for rigid metal fences suitable for the protection of small perimeters. It offers a very high detection capability and a quick and easy installation.

Torsus Compact 50 is composed of special “torsion” sensors and a sophisticated analysis unit which **detect shock, climb and breakthrough attempts** on rigid metal fences and palisades.

**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.

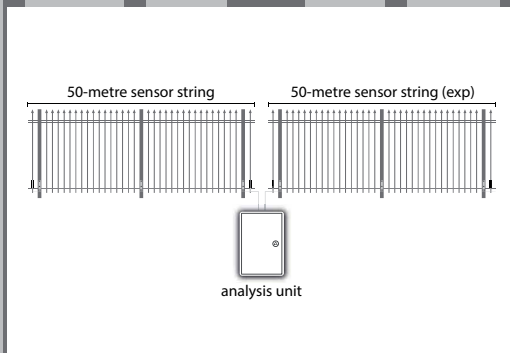
**Easy to install.** To simplify and quicken the installation of the system, the analysis unit and the sensor-strings are factory wired and tested.

**Flexible.** The sensor-strings follow the direction of the perimeter and suit the most difficult ground conditions.

**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.

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

**Intelligent.** The system discriminates the different types of intrusion techniques, including climbing the structure without producing vibrations.



## 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 TORSUS 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 TORSUS 50 piezoceramic sensors** (sensor-string) for the protection of a 50-metre rigid fence. The sensor-string consists of either 20 detectors (2.5-metre spacing between the sensors) or 25 detectors (2-metre spacing).
- **A 25-metre TORSUS 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



TORSUS 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 TORSUS 50 piezoceramic sensors** (sensor-string) for the protection of a 50-metre rigid fence. The sensor-string consists of either 20 detectors (2.5-metre spacing between the sensors) or 25 detectors (2-metre spacing).
- A **25-metre TORSUS 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.



Expansion board



TORSUS 50 sensor



Wiring kit

# Technical features:

## Analysis unit:

- Power supply: 230 Vac  $\pm$  10% 50 Hz
- Current consumption: 50 mA
- Operating temperature:  $-25^{\circ}\text{C} \div +80^{\circ}\text{C}$
- 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 RS232 port)
- CPU: 32 bits, 16 Mhz
- Event memory: more than 20.000

## 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:

- 20 TORSUS 50 sensors, 2.5 metre spacing, colour grey or green  
or
- 25 TORSUS 50 sensors, 2-metre spacing, colour grey or green

## Connection cable:

- 25-metre hank, colour grey or green



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