

FENCEN

Evaluation Unit for up to 246 detection sensors

- Power supply: 9–16 V DC
- Operating temperature range: –55 °C to +85 °C
- Inputs: 8× double balanced (balancing resistances 2×2k2)
- Outputs: 10× open collector type
- Port: 1 RS232 (for local system configuration and HyperPower interfacing through CMH9000PER)
- Environmental Protection: IP65
- Housing dimensions: 150 × 200 (240 including cabling space) × 80 mm

FENCEN LIGHT

Evaluation Unit for up to 56 detection sensors

- Power supply: 9–16 V DC
- Operating temperature range: –55 °C to +85 °C
- Inputs: 8× double balanced (balancing resistances 2×2k2)
- Outputs: 10× open collector type
- Port: 1 RS232 (for local system configuration - NOT possible to integrate into HyperPower software)
- Environmental Protection: IP65
- Housing dimensions: 150 × 200 (240 including cabling space) × 80 mm

FENSEN10

Perimeter Detection Sensor (PDS)



- Detection technology: Piezoelectric convertor
- Power supply: from the bus cable of the evaluation unit PVJ
- Consumption: 1mA max.
- Operating temperature range: –55 °C to +85 °C
- Environmental Protection of Electronics: IP65
- Housing dimensions: 100 × 100 × 35 mm

FENSEN30

Underground Detection Sensor (UDS)



- Detection technology: Piezoelectric convertor
- Power supply: from the bus cable of the evaluation unit PVJ
- Consumption: 1mA max.
- Operating temperature range: –55 °C to +85 °C
- Environmental Protection of Electronics: IP65
- Housing dimensions: 100 × 100 × 35 mm

CMH9000PER

RS232/IP interface board



- Microprocessor: 24MHz.
- Interfaces: 1 LAN 10/100Base-T
1 RS232
1 RS485 optoisolated (used for CMH8OUT)
- Additional Inputs: 4x double balanced
- Additional Outputs: 4x open collector type
- Operating temperature range: –25°C to +75°C
- Board dimensions: 120 × 105 mm

FENSEN15

I/O Module (PIO)

- Power supply: from the bus cable of the evaluation unit PVJ
- Consumption: 2mA max.
- Operating temperature range: –55 °C to +85 °C
- Inputs: 1× double balanced (balancing resistances 2×2k2)
- Outputs: 1× open collector type, galvanic separation
- Environmental Protection of Electronics: IP65
- Housing dimensions: 100 × 100 × 35 mm

HyperPower Lite

Pin-point detection available with HyperPower Lite alarm monitoring and management platform.



PERIDECT®

FENCE PROTECTION SYSTEM



PIN-POINT DETECTION
RESOLUTION 2-4 METERS

MADE IN ITALY

www.sicurit.com

Sicurit Alarmitalia Spa is a company certified

PERIDECT®



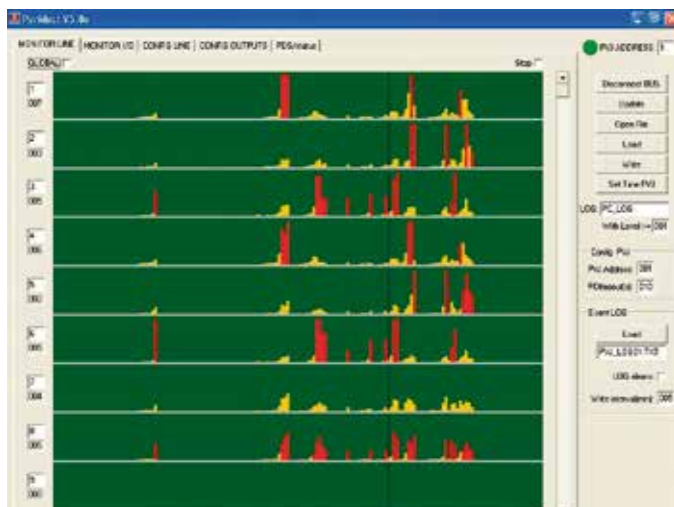
The PERIDECT® system detects vibrations on the fencing caused mechanically during attempts to enter the premises (climbing over, cutting through, lifting off). Sensors are arranged on the fencing for such detection (usually one detector (FENSEN10) per fence panel between posts). Each detector contains a piezoelectric element supported by microprocessor-based signal processing.

Using a differential logic, the system considerably suppresses false alarms caused by weather effects (rain, wind). The system provides detection accuracy enabling each individual detection sensor FENSEN10, to be viewed on the control system as one zone, while the parameters of any sensor can be set independently. One single evaluation unit (FENCEN) can typically be used for approx. 1000 m. (246 sensors limitation) of fencing with resolution of unauthorised entry for each 2.5 m fence panel assuming one detector per panel.

The PERIDECT® system is fully autonomous with fully configurable features and alarm outputs allowing the PERIDECT® system to be connected to a standard security system as a regular detector. The PERIDECT® system is in addition equipped with an input/output module to simply connect other devices on the perimeter route (e.g. magnetic contacts on gates) into the system as well as controlling other devices (e.g. spotlights).

System Elements

The PERIDECT® system consists of an evaluation unit (FENCEN), to which detection sensors (FENSEN10) and input/



output modules (FENSEN15), are connected using a data cable. Each FENCEN can be connected to up to 246 detection sensors (FENSEN10) and 8 input/output modules (FENSEN15).

Evaluation Unit

The evaluation unit is located in a plastic box with cable grommets. The unit is connected to individual detection sensors (FENSEN10) and input/output modules (FENSEN15) using a data cable (twin-wire bus-bar). The unit contains 10 programmable outputs. These can be connected to a conventional security panel with the result that activation from any groups of FENSEN10's or the input status of any FENSEN15 module can be assigned to any output. The evaluation unit contains in addition eight double balanced inputs, which can be used for connection of other security system elements, e.g. PIR's, IR beams, MW detectors and contacts.

Detection Sensors

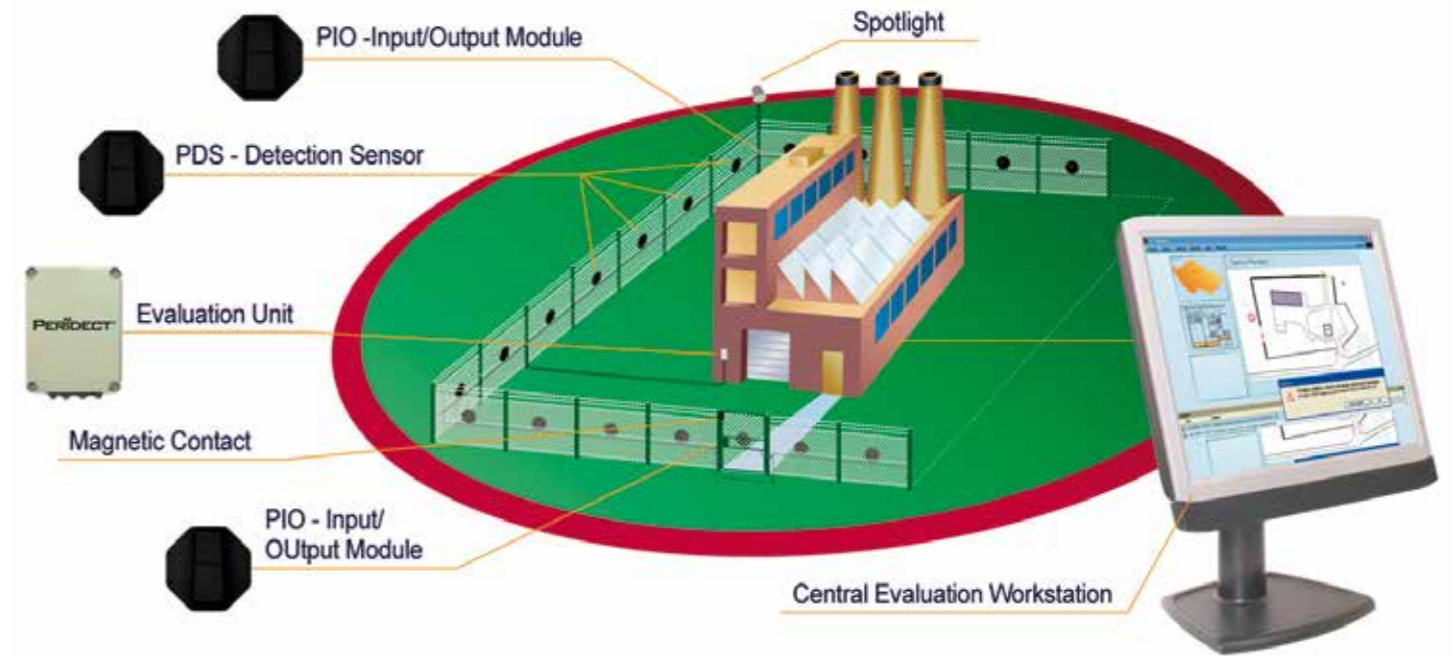
The detection sensor evaluates mechanical vibrations from the fencing using a piezoelectric sensor (ensuring long-term durability and repeatability). It is located in a plastic box and attached to the fencing by two screws and a plastic strap. It is fitted as standard in the middle of the fence panel between the post supports.

The manufacturer connects individual sensors using a bus cable with spacing according to actual conditions that the installer must specify.



Integration

Each individual detection sensor can be viewed, through its dedicated interface, on SICURIT Security Management System HyperPower as one zone (Pin Point Detection) or additional O.C. outputs (10) are available on its evaluation unit for easy integration into third party conventional control panel (246 sensors divided into 10 programmable zones).



New Underground Version

The accurate underground detection system is based on the same detection and evaluation principles as the fence variants Standard, Hidden and Antivandal.

An evaluation unit, ground detectors, a specially protected BUS and evaluation software form the backbone of the system.

Installation is usually done directly to the trench for all types of soil without any restrictions and/or additional ground shaping – without installation of reinforcements or pads, without gravel, sand or other special bolstering materials, on top of that maintaining the minimum necessary cost of excavation works.

Nevertheless, the Underground remains fully functional during changing climatical conditions – in the dry soil in summer, during the long rains, or throughout the winter months which consist of frozen ground snow and ice.

Naturally the installation is possible even under thin concrete, narrow asphalt road, pavements, etc. In the exceptional cases such as massive concrete or other large paved areas with a thickness of more than approx. 10 cm, it is recommended to use the gravel sub-base.

Using the system's unique functionality of Differential Logic significantly reduces false alarms caused by bad weather conditions (heavy rain, strong winds, hail) or other global phenomena (a passing train, earthquakes, etc.).



Pin Point Alarm Visualization with HyperPower Security Management Systems (SMS)

