



# PERIDECT Detection Line

For the detection of the perimeter intrusion the detection sensors DSP+ are used. They are mechanically fastened to the fencing (on the fence panel or inside the fence post) or as the case may be on the walk detection plate. The detectors include a piezoelectric sensor with microprocessor processing of the signal. Within a detection line connected to one line controller, each detector has

its own address and the parameters of each detector can be set independently. The detection accuracy of the place of the intrusion is to each individual detection sensor DSP+. For a possibility to connect other devices input module LIP+ is used, for the overvoltage protection LPP+ module is intended, and LSP+ module is used for disconnecting the line section with a short circuit. All the components

are interconnected by two wire communication and power supply bus and then connected to the line controller. Within the detection line up to 1-500 addresses (501-1 000) can be connected to one line controller LCP+. The addresses can be assigned by a combination of detection sensors DSP+ and/or line input modules LIP+.



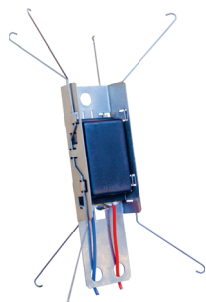
### Standard version

The basic version of the detection line. The detectors are connected by a special two wire cable designed for outdoor use, i.e. the cable with a surface resistance to UV radiation. The Standard detection line is always supplied with interconnected detectors, which simplifies the installation of the detection line and ensures the system reliability.



### Antivandal version

Version with increased cable resistance to damage, e.g. to cutting by an intruder or biting by animals. Two wire cable is placed in the stainless steel protection tube, which provides the mechanical protection of the cable. In areas with the high level of the electromagnetic field interference, the metal protection tube can also work as the shielding. The Antivandal detection line is always supplied with interconnected detectors as the Standard version.



### Hidden version

Hidden version is intended for cases, when it is required that the fence safeguarding is not visible. The detectors are installed inside the posts in the upper part and connecting cable leads also inside the posts and then underground between the posts (or as the case may be on the foundation wall or directly in the fence frame). The sensor itself is placed in a metal holder with springs in order to be able to use it in the posts of various dimensions. The Hidden version is more difficult to be installed, the Hidden version detectors are supplied not connected and the wiring must be prepared when the fence is installed. In certain cases it is possible to lead the cable on the top of the fence or e.g. in the pipe on the fence. In this case the cables are not so well protected, but the detection is not visible at first sight and the installation is easier compared to the standard solution.



## CODE MARKING OF THE DETECTION LINE PERIDECT+

### PERIDECT-DSP+ / X / Y / ZZ

Detection  
Sensor  
PERIDECT+

Version:  
S – Standard  
A – Antivandal  
H – Hidden

Version:  
B – Basic

Distance between posts in decimeters in the step  
of 2 dm (for Standard and Antivandal version),  
in case of value 00 the detectors are not connected



### Detection sensor PERIDECT-DSP+

DSP+ contains a sensor fitted in a protective casing. This sensor detects mechanical shocks of the fence via piezoelectric converters. The shocks are digitised, pre-processed by the sensor's microprocessor and delivered using digital sub transfer to the LCP+ module for further processing and finally to the CUP+ evaluation unit.

#### Technical parameters:

*Power supply: from the line controller bus*  
*Consumption: 0,7 mA typically*  
*Operating temperature range: -60 °C to +85 °C*  
*IP protection: IP65*  
*Dimensions: 52 × 33 × 16 mm*  
*(outer cover 110 × 110 × 40 mm)*



### Line Input Module PERIDECT-LIP+

LIP+ module enables the connection of two security sensors (e.g. magnetic sensor, motion sensor, infrared barrier) by means of two double balanced inputs, which statuses are distinguished according to different values of the balancing resistors for each of the inputs. The maximum number of the installed LIP+ modules is limited to 32 inputs within one control unit CUP+. The module can be placed anywhere on the detection line. It is placed in the same housing as the detectors DSP+.

#### Technical parameters:

*Power supply: from the line controller bus*  
*Consumption: 0,7 mA typically*  
*Operating temperature range: -60 °C to +85 °C*  
*IP protection: IP65*  
*Dimensions: 52 × 33 × 16 mm*  
*(outer cover 110 × 110 × 40 mm)*



### Line Separator LSP+

Line separators LSP+ enable to disconnect automatically a part of the line, on which a technical problem appeared, e.g. a short circuit, while the rest of the detection line can continue in the standard function. The installation of the separators is recommended especially on the sites when the line is connected in the ring or when the safeguarded detection line is installed. The line separator is equipped with the overvoltage protection (similar to the LPP+) and is placed in the same housing as the detectors DSP+.

#### Technical parameters:

*Power supply: from the line controller bus*  
*Consumption: 1 mA typically*  
*Operating temperature range: -60 °C to +85 °C*  
*IP protection: IP65*  
*Dimensions: 52 × 33 × 16 mm*  
*(outer cover 110 × 110 × 40 mm)*



### Line Protection PERIDECT-LPP+

To increase the system resistance to electromagnetic field and overvoltage peaks caused e.g. by a nearby lightning strikes, an overvoltage module LPP+ is installed on the line. It contains a system of the components which reduce the possible interfering voltage peaks between the bus lines. The line protection LPP+ is placed in the same housing as the detectors DSP+.

#### Technical parameters:

*IP protection: IP65*  
*Dimensions: 52 × 33 × 16 mm*  
*(outer cover 110 × 110 × 40 mm)*

