PERIDECT

Underground

PROTECTS YOUR PERIMETER MORE EFFECTIVELY

+ Invisible protection of your premises

+ Detects an intruder **directly on the boundary** of the protected area

+ Gains **sufficient time** for the security operator for an **effective reaction**

INDUSTRIES AND APPLICATIONS

+ Industrial and commercial sites

+ Strategic and critical infrastructure

+ **Power plants**

+ **Airports**

+ **Prisons**

+ **Military areas**

+ **Fuel depots**

+ **National borders**

PERIDECT+ UNDERGROUND KEY FEATURES

+ Extremely low nuisance alarm rate (max 6 alarms/1 km/1 month)
Thanks to „differential logic" algorithms and the ability to set the sensitivity of each detector

+ Successful detection rate (higher than 95%)
Thanks to the ability to increase the sampling rate of the communication bus

+ Buried and fence detectors at one detection line
A combination of fence and buried detectors at one detection line supported

+ Perimeter length (1x LCP+ covers up to 1km)
Length of protected area can be hundreds of kilometers if you cascade LCP+ and CUP+ units

+ Detection accuracy (1 – 2m)
Addressable sensors Peridect+ Underground support very high detection accuracy

PERIDECT+ UNDERGROUND OTHER FEATURES

+ IP68

Complete protection against contact (dust-tight) and water

+ Modularity

Modular architecture allows easy modification and system extension in the future

+ Integration with 3ʳᵈ party systems

Open API are available for 3ʳᵈ party system integration
Possibility to connect third party systems using I/O modules:
- LIP+ directly on the detection line
- IOP+ (RS485) located near to CUP+ (max 1200m)
- IOP+ (LAN, RS485) located literally anywhere in the world

+ Native integration with IP cameras

IP PTZ camera can be automatically directed to move to the intrusion area for two-step verification

TYPICAL INSTALLATION EXAMPLES

CUP+

Up to 2 km (2m between detectors)

CUP+

LCP+   **LCP+**

LCP+   **LCP+**

Up to 500 DSP+   Up to 500 DSP+   Up to 500 DSP+   Up to 500 DSP+

„Unlimited" total length of perimeter

Professional perimeter intrusion detection system
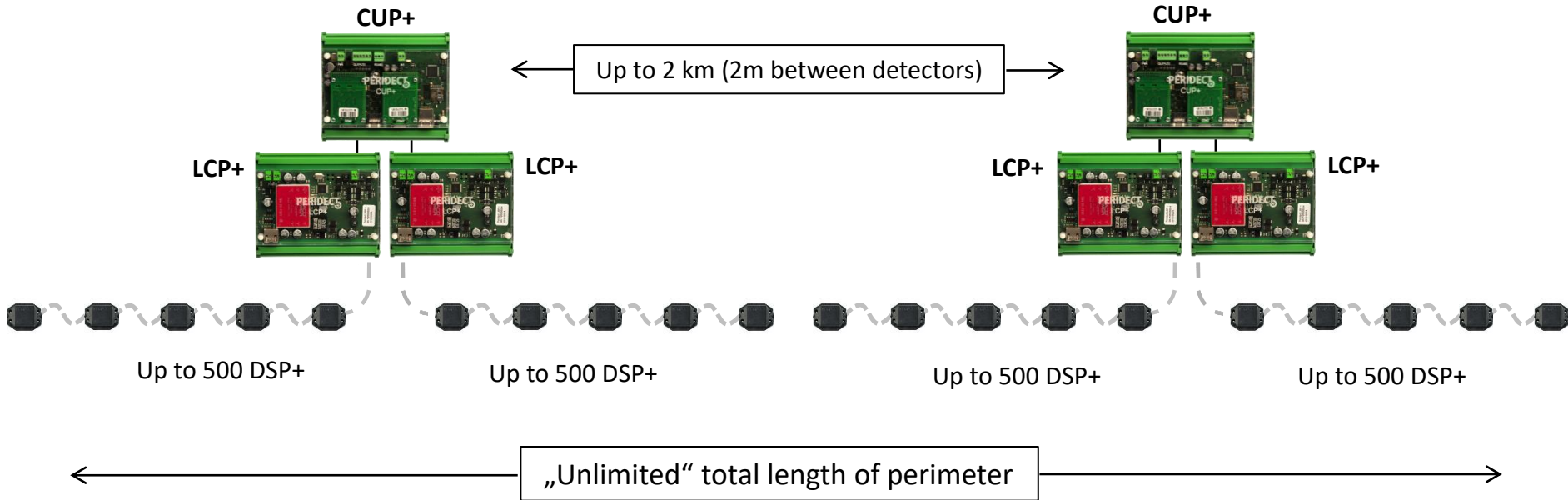
TECHNICAL FEATURES

+ Up to **500 addresses** per one LCP+ (up to 1 km of perimeter)

+ **Separators** securing the operation of the detection line (20 per LCP+)

- Surge protection
- Communication bus data protection

+ **Individual sensitivity set up** of each detector (sensor)

+ **LAN, RS485** connections directly build in the CUP+ control unit

+ **No moving parts** – higher reliability (MTBF ~ 10^6h)

+ **Analogue cameras** support

+ **Detection line secure protection** with stainless steel tube

Control Unit PERIDECT+ (CUP+)
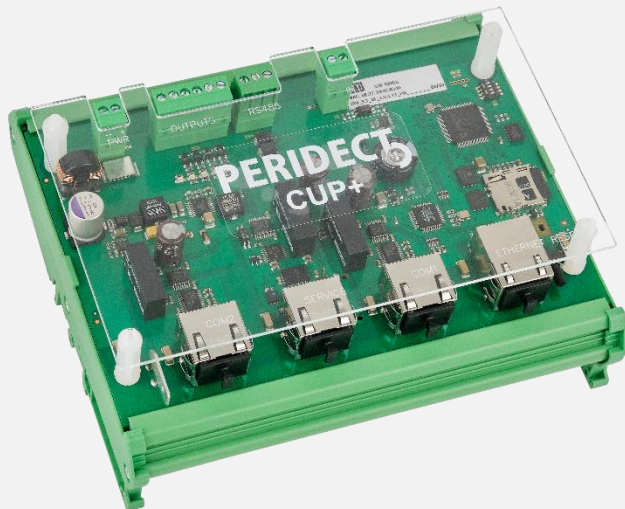
> Industrial PC (ready for 24/7 operation)

> LAN port (RJ45)

> 2x RS232 (RJ45) for LCP+ and PVJ

> 4x directly controlled logical outputs

> 1x logical input (tamper)

> RS485 communication bus integrated

Professional perimeter intrusion detection system
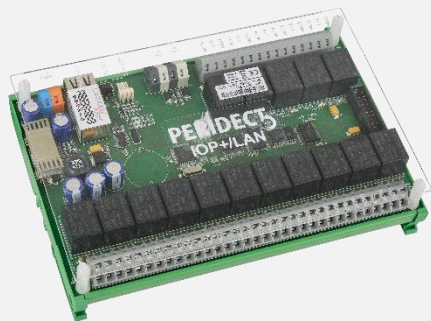
Line Controller PERIDECT+ (LCP+)

> 2-wire communication bus driver

> Galvanic isolation of detection line

> Up to 500 addresses:

- DSP+

- LIP+

> Symetrical connection of detectors
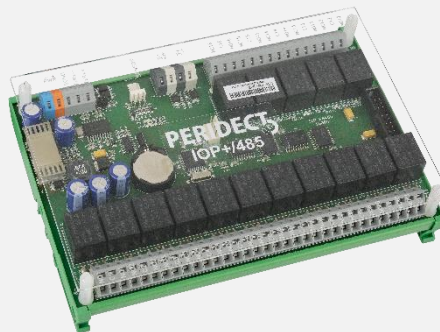
- Higher EMI resistence

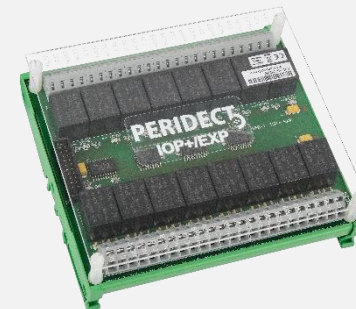- Easier installation

I/O LAN Module PERIDECT+ (IOP+/LAN)

> 16 relay outputs

> Switching contacts

> 2 double balanced inputs

I/O RS485 Module PERIDECT+ (IOP+/RS485)

> 16 relay outputs

> Switching contact

> 2 double balanced inputs

I/O Expansion Module PERIDECT+ (IOP+/EXP)

> Expansion module for IOP+/LAN and
  IOP+/RS485

> Switching contacts

> Additional 16 relay outputs

Detection Sensor PERIDECT+ (DSP+/U)

ID: 201
HW05 FW20 28/20
Z426/45701

> Increased sensitivity

> Remote setting of sensitivity

> Software sensitivity set up

Line Separator PERIDECT+ (LSP+/U)

HW02 FW10 45/18
Z426/45702

> Limits short-circuit on the detection line

> Maximum 20 separators per one line

> Built-in overvoltage protection

Plastic cover for all detection line components

Line Input PERIDECT+ (LIP+)

ID:
HW2.01 FW102 21/17
Z426/45702
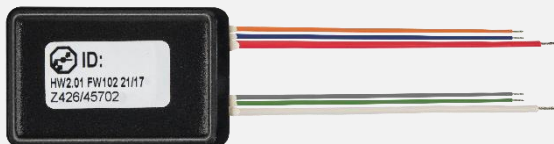
> 2 double balanced inputs + 1 output

> Fitting on any place on the line

> Max. 64 per one CUP+ (128 inputs)

Line Protector PERIDECT+ (LPP+/U)

HW02 30/19
Z415/0608

> Built-in overvoltage protection

> IP68 polycarbonate cover

> Stainless steel tube protecting cables between detectors

Professional perimeter intrusion detection system

INSTALLATION RECOMMENDATIONS

+ Proper inspection of the installation site and **identification of sources of parasitic vibrations**

- Pumps
- Conduit
- Proximity to railways and roads
- Trees

+ Possibility to use a **demo case for analysis of possible parasitic vibrations** (burying a short test detection line)

+ Service acccess
- Service box after each 30 detectors
- Suitable for connecting the underground and fence detection line of the Peridect+ and placing the LSP+ to the detection line
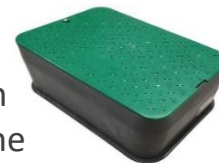
Eliminate number of false alarms and protect your perimeter even more effectively!
Sieza s.r.o.