



# PERIDECT®

## Peridect Perimeter Detection System Technical Data

### PERIDECT SYSTEM COMPONENTS

#### PVJ – Evaluation Unit

Parameter / type of Evaluation unit	PVJ	PVJ Light	PVJ Light/i
Possibility to integrate to third party softwares	YES	NO	YES
Maximum number of connected detectors	246	56	56
Consumption (without connection of PDS and PIO modules)	200 mA	200 mA	200 mA
Consumption (with connected maximum number of units, i.e. 246/56 PDS and 8 PIO)	600 mA max.	300 mA max.	300 mA max.

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  
 Environmental Protection: IP65  
 Housing dimensions:  
 150 × 200 (240 including cabling space) × 80 mm

#### PDS – Detection Sensor

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

The Detection Sensors are available in four different sensitivity levels: Normal (NO), Sensitive (SE), High Sensitive (HS) and Ultra Sensitive (US).

#### PIO – Input/Output Module

Available as PIO Standard (PIO/S), PIO Antivandal (PIO/A), PIO Hidden (PIO/H)  
 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

#### PP Module – Overvoltage Protection

Available as Standard (PP/S) and Antivandal (PP/A) options  
 Overvoltage protection between two BUS wires, installed in the same plastic cover as PDS on the detection line. Protects against voltage peaks over 50 V.  
 Housing dimensions: 100 × 100 × 35 mm

#### RM Module – Relay Module

For galvanic separation of PVJ Outputs  
 10 relays switchable NO/NC  
 PC Board dimensions: 130 × 60 × 20 mm  
 Power supply: 9–16 V DC  
 Consumption: 15 mA per each relay

### PERIDECT DETECTION LINES

- The fence detection lines are available as Standard, Antivandal and Hidden options, for the ground detection there is the Underground detection line
- The maximum recommended length of one detection line including the lead-in cable and 246 connected detectors is 1.300 m
- The detection line connected to one PVJ unit can be branched out and/or connected within a circle
- The detection lines including the lead-in cables connected to various PVJ units must not be installed side by side



**Peridect Detection Lines marking:**

**PDS / X / YY / ZZ**

Peridect  
Detection  
Sensor

Peridect version:  
S – Standard  
A – Antivandal  
H – Hidden  
U – Underground

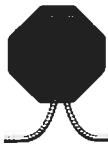
Sensitivity of Detectors:  
NO – Normal  
SE – Sensitive  
HS – High Sensitive  
US – Ultra Sensitive

Distance between fence posts in decimeters  
(Standard and Antivandal versions, delivery  
always with additional 30 cm of cable between  
each two detectors) / Distance between detectors  
in decimeters (for Underground version)



**The Standard Detection Line:**

- PDS / S / YY / ZZ
- Delivered length of lead-in cable: 10 m
- The maximum recommended distance between fence posts for installing Peridect is 5 m
- Typical Peridect detection line packing consists of 100 pcs. of connected PDS, packing dimensions 60 × 40 × 45 cm, Brutto weight 23 kg, Netto weight 21 kg



**The Antivandal Detection Line:**

- PDS / A / YY / ZZ
- Delivered length of lead-in cable: 10 m of cable and 5 m of stainless steel protective tube
- The maximum recommended distance between fence posts for installing Peridect is 5 m
- Typical Peridect detection line packing consists of 50 pcs. of connected PDS, packing dimensions 60 × 40 × 45 cm, Brutto weight 25 kg, Netto weight 23 kg



**The Hidden Detection Line:**

- PDS / H / YY / 00 (00 – disconnected)
- Delivery consists of disconnected detectors with a separate cable coil
- The maximum recommended distance between fence posts for installing Peridect is 5 m
- The minimum diameter inside of a fence post must be 4 cm
- Typical Peridect detection line packing consists of 50 pcs. of disconnected PDS, packing dimensions 60 × 40 × 45 cm, Brutto weight 30 kg, Netto weight 28 kg

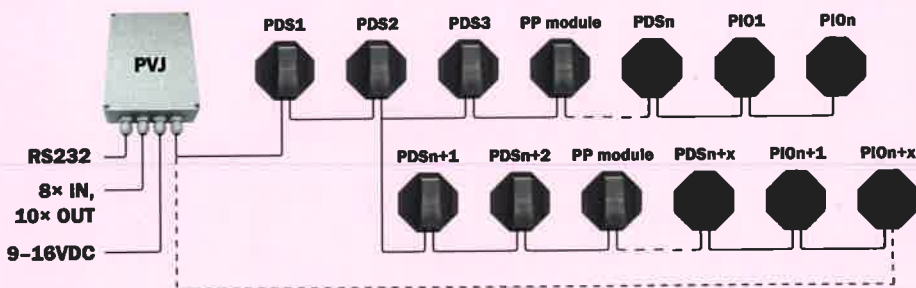


**The Underground Detection Line:**

- PDS / U / US / ZZ
- The recommended distance between detectors is 1,5 to 3 m (3 m as standard delivery)
- The required excavation depth is 40 cm, the minimum required excavation width is 10 cm, further ground shaping is not required
- Detection lines can be connected via underground joints
- Delivered length of lead-in cable: 10 m of cable and 5 m of stainless steel protective tube
- Typical Peridect detection line packing consists of 50 pcs. of connected PDS, the packing dimensions 60 × 40 × 45 cm, Brutto weight 30 kg, Netto weight 28 kg

**GENERAL INFORMATION**

- The standard 2 year warranty can be extended up to 10 years
- The product complies with requirements of the European Norm EN 50131-1 for safeguarding of objects at the highest security grade 4: High Risk
- Block diagram of connection:



**CERTIFICATES**

- In compliance with the security norm CSN EN 50131-1 for use within the Czech Military facilities, for civil use and for the National Security Authority (NSA) of The Czech Republic
- Certification of the Technical device issued by the NSA of The Czech Republic

PVJ – Evaluation Unit  
PDS – Detection Sensor  
PIO – Input/Output Module  
PP Module – 1 module per each max. 100 PDS

