



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

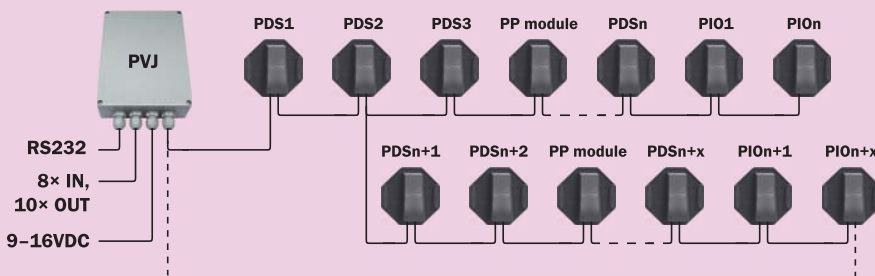


The Underground Detection Line:

- PDS / U / US / ZZ
- The recommended distance between detectors is 1 to 3 m (2 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 30 pcs. of connected PDS, the packing dimensions 60 × 40 × 45 cm, Brutto weight 23 kg, Netto weight 21 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

