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## Tender Description

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### **Barrier Lift System K4**

Clear width of opening up to 9.0 m

#### **IMPACT LOAD/KINETIC ENERGY:**

612 kJ (6.8 t @ 48 km/h)

Certified according to DOS SD-STD-02.01 Rev. A 03/2003 K4/L3

#### **WHEEL LOAD:**

100 kN wheel load according to SLW60 - DIN 1072

#### **CRASH BEAM:**

Crash beam made of rectangular hollow section profile

RHS 450 x 250 guided within the guide stands on both sides.

Crash beam fitted with cover plate.

Clear width of opening (CWO): from 3000 - 9000 mm  
in 500 mm increments

Blocking height: 1100 mm

#### **GUIDESTANDS:**

Height: 1753 mm (without hydraulic cylinder)

Width: 1030 mm

Depth: 450 mm

The hydraulic cylinders for raising and lowering of the crash beam are fitted inside the guide stands.

The guide stands are fastened to anchor baskets which must be concreted in during the erection of the foundation.

#### **GROUND FRAME:**

Length: CWO – 6 mm

Width: 820 mm (without anchors)

Depth: 310 mm (without 150 mm high drainage sleeves)

The ground frame is fitted with drainage sleeves and heating band. It is bolted to a foundation beam approx. 310 mm below road level.

#### **WEIGHT:**

Crash beam: approx. 500 – 1370 kg (depending on CWO)

Ground frame: approx. 300 – 820 kg (depending on CWO)

Guide stands + anchor baskets: approx. 1500 kg

Drive cabinet approx. 280 – 400 kg (depending on fitting of optional accumulator)

#### **NORMAL OPERATING SPEED:**

Raising: approx. 0.17 m/sec

Lowering: approx. 0.20 m/sec

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### **DRIVE CABINET:**

Drive cabinet HxWxD=1400x1200x400 incl. 200 mm high base for indoor installation complete with corrosion protected hydraulic aggregate, PLC Easy in control box, heating 500 W, thermostat, air grille, air grille with fan and LED-system light.  
Optional: outdoor version incl. hygostat, rain cover and outdoor coating

Optional: drive cabinet HxWxD=1800x1200x500 incl. 200 mm high base in connection with RO1 option for EU and EFTA countries

### **HYDRAULIC DRIVE UNIT:**

Hydraulic aggregate with motor 4.0 kW, pump, magnetic valves, high-pressure hydraulic cylinders and hand pump  
Length of hydraulic hoses: max. 25 m

### **EMERGENCY OPERATION DURING POWER FAILURE:**

Manual raising via hand pump

Manual lowering via ball cock valve

Optional: Accumulator and battery pack for one remote operation (RO1) during power failure

### **LOCKING MECHANISM FOR DRIVE CABINET:**

3-point locking system with double-bit insert

Optional: Folding lever handle with profile cylinder

### **HYDRAULIC FLUID:**

Biodegradable hydraulic fluid Plantohyd 22 S, non-hazardous to water or mineral oil HLP 22

### **CONTROL:**

PLC type Easy in control box, installed in drive cabinet, control voltage 24 V

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Optional: Socket SCHUKO type F, plug CEE 7/3 mounted on a top-hat rail inside the control box

### **CONTROL DEVICES (OPTIONAL):**

- push button "raise/stop/lower" or key switch "raise/stop/lower"
- key switch "fire brigade"
- anti-terror push button (for emergency operation EO)
- light beam system
- remote control receiver
- antenna for remote control receiver

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- hand-held transmitter
- additional push button or key switch
- double loop detector
- key switch "automatic on/off"
- traffic light red/green, D200
- door contact switch for drive cabinet

### **STATUS INDICATION (OPTIONAL):**

Potential-free contacts "BLS lowered/raised"

### **COLOUR OF COATING:**

Crash beam: RAL 9010 pure white  
Crash beam: RAL 3000 flame red (Optional)  
Crash beam: RAL 3000/9010 (red/white) striped (Optional)  
Cover plates crash beam: RAL 9010 pure white  
Guide stands: RAL 9010 pure white  
Ground frame: RAL 9010 pure white  
Anchor baskets: galvanised finish

### **INSTALLATION UNIT:**

The Barrier Lift System is delivered as a ready to install unit. The electro-hydraulic drive unit is installed in a separate drive cabinet and factory-adjusted.

### **FOUNDATION:**

Reinforced foundation according to manufacturer's instructions

### **MANUFACTURER:**

Perimeter Protection Germany GmbH  
Johann-Reineke-Str. 6-10  
D-33154 Salzkotten  
Tel. (+49) (0) 5258 / 500-70

[www.perimeterprotection.net](http://www.perimeterprotection.net)  
[info@perimeterprotection.de](mailto:info@perimeterprotection.de)