ProLoop sensing the future

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Loop detector for industrial gates, barriers and parking installations

Intelligent, compact, simple

- Minimal start-up time thanks to simple programming and simulation capability
- Versatile usable due to a multitude of functions and flexible settings
- Easy and self-explanatory operation
- Automatic measurement and display of the loop inductivity
- Instant error detection via LCD display
ProLoop

Loop detector for gates, industrial barriers and parking installations

Detection with a system
Every loop detection operation is performed with total reliability when using ProLoop. The ProLoop system monitors and evaluates using induction wire loops laid in the ground and in this way recognises metal vehicles of all types: bicycles, cars, trucks, or towed units and forklifts are all precisely captured. Its compact DIN-standard housing and the simple operating and display concept make ProLoop a really user-friendly product.

ProLoop – there’s nothing easier
Intelligent software and compact design make operation and start-up really easy.

Your benefits

Rapid start-up
The programming is easy to understand. With the two buttons and the LCD display, the operation of ProLoop is very user-friendly.

Easily serviced and monitored
The operating mode and parameters can be simply checked at a single glance on the easy-to-read LCD display unit.

Individually adjustable
Adjustment using the optimized sensitivity adjustment in 9 stages.

Integral measuring device
Automatic measurement and display of loop inductivity.

Programmable at any time
The functions can rapidly be adjusted: timing delays and other parameters can be individually programmed.

Safe and reliable
- High operational safety after a power loss even with occupied loops thanks to automatic resetting
- Selectable and automatic sensitivity boost: vehicles towing trailers are safely identified
- Highest reliability and high error tolerance is guaranteed by the galvanic isolation between loop and detector
Additional accessory

The pre-assembled induction loop is an important component of the loop detection system. It is laid in the ground and can be supplied in different sizes.

Applications

**Situation**
Used with sliding gate

**Solution**
- The opening and closing of gates in inside and outside areas

**Benefits**
- Contact-free activation of gate installations
- Reacts with all metal vehicles
- No false opening caused by pedestrians and animals

**Situation**
Used in barrier installations

**Solution**
- The opening and closing of barriers at entries and exits of parking installations
- Activation of parking ticket machines

**Benefits**
- For displaying occupancy in car parks.
- The opening pulse of the barrier can also be used for counting
- No unintentional activation by pedestrians

**Situation**
Drive-in with traffic lights installation

**Solution**
- Control of traffic lights in badly arranged entrances and bottlenecks

**Benefits**
- Well-defined control of traffic
- Targeted activation by directional logic
- Reduced waiting times due to optimized traffic flow

**Applications**

- The pre-assembled induction loop is an important component of the loop detection system. It is laid in the ground and can be supplied in different sizes.
### Technical specifications

#### Mechanical specs.

**Housing**
- For DIN rail mounting. Material is red and grey polyamide.

**Dimensions**
- 85 x 90 x 22.5 mm (W x H x D)

**Weight**
- 200 g

**Type of connection**
- Clamp-type terminals

**Loop supply cable**
- Max. 200 m
- Min. 20 twists per meter

#### Electrical specs.

**Supply voltage**
- 24 V ACDC ±10 %
- 80 – 264 VAC

**Power consumption**
- Max. 2 VA

**On duration**
- 100%

**Loop inductivity**
- Max. 40 – 1000 µH
- Ideal 80 – 300 µH

**Frequency range**
- 20 – 100 kHz in 4 stages

**Sensitivity**
- Frequency modulation: 0.01 – 4.00% in 9 stages
- Infinite or as per programming

**Hold time**
- Infinite or as per programming

**Loop resistance**
- < 8 Ohm incl. supply cable

**Output relay (Loop)**
- 250 VAC / 2A AC1

**Output relay (Alarm)**
- 60 VAC / 0.3A AC1

**Reaction time**
- 1-loop device 150 ms
- 2-loop devices 300 ms

**Pre-protection**
- ETSI EN 300330-2 V1.3.1 : 2006
- ETSI EN 301489-1 V1.5.1 : 2004
- ETSI EN 301489-3 V1.4.1 : 2002

**Electrical safety**
- EN 60950-1 : 2001 / A11 : 2004

#### Environmental conditions

**Type of protection**
- Suitable for operation as per IP30

**Operating temps.**
- –20 °C to +60 °C

**Storage temperature**
- –40 °C to +70 °C

**Humidity**
- < 95 %, no condensation

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**Note**

Technical details and recommendations on our products are based upon experience and represent guidelines for the user. Details in brochures and specification sheets do not guarantee any special product features, apart from those which we confirm in individual cases. We reserve the right to make changes as the result of technical developments.

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### Order details

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<th>Item no.</th>
<th>Description</th>
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<tr>
<td>PRLO 1.R1.24ACDC</td>
<td>219 946 ProLoop 1 Loop device with 1 Relay output 24 VACDC</td>
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<tr>
<td>PRLO 1.R1.LVAC</td>
<td>219 947 ProLoop 1 Loop device with 1 Relay output 85–264 VAC</td>
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<tr>
<td>PRLO 1.R2.24ACDC</td>
<td>219 948 ProLoop 1 Loop device with 2 Relay outputs 24 VACDC</td>
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<td>PRLO 1.R2.LVAC</td>
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<td>PRLO 2.R2.24ACDC</td>
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<td>PRLO-KS</td>
<td>Spare terminals – Set</td>
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<tr>
<td>SF5/20</td>
<td>213 925 Pre-assembled loop, circumference = 5 m, Supply cable = 20 m</td>
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<td>SF6/10</td>
<td>213 928 Pre-assembled loop, circumference = 6 m, Supply cable = 10 m</td>
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<tr>
<td>SF6/15</td>
<td>213 929 Pre-assembled loop, circumference = 6 m, Supply cable = 15 m</td>
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<td>SF8/5</td>
<td>213 940 Pre-assembled loop, circumference = 8 m, Supply cable = 5 m</td>
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<tr>
<td>SF12/15</td>
<td>213 904 Pre-assembled loop, circumference = 12 m, Supply cable = 15 m</td>
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Other lengths available on request:
- Loop circumference min. 6 m max. 25 m, Supply cable max. 50 m

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### Your contact

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