



## ProLoop Lite

Loop detector for industrial gates, barrier systems and car park systems

### Intelligent, simple, compact

- Numerous potential applications
- Maintenance-free, so high operational reliability
- Very short commissioning time thanks to simple programming
- Easier operation thanks to the LCD display

# ProLoop Lite

## Loop detector for gates, industrial barrier systems and car park systems

### Detection with a system

With ProLoop Lite, every loop detection is absolutely reliable. ProLoop Lite monitors and evaluates induction loops installed in the ground and detects all types of metallic vehicles: Bicycles, cars, fork-lift trucks, trucks and tractor/trailer combinations with drawbar are accurately detected. The easy-to-understand operating and display concept makes ProLoop Lite particularly user-friendly. Loop and detector are electrically isolated for maximum reliability.

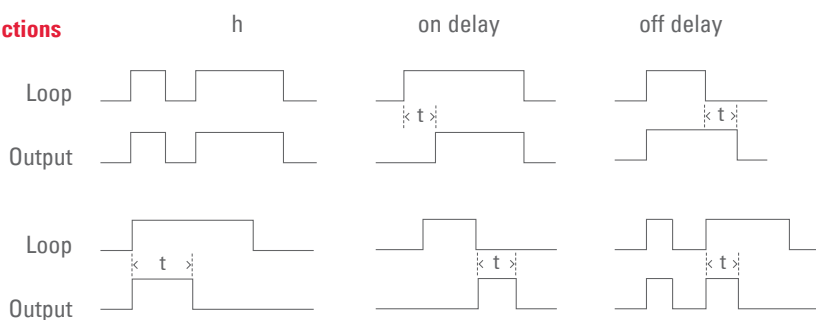
### ProLoop Lite – it couldn't be easier!

The intelligent software and compact design enable simple operation and commissioning.



## Functions

### Time functions

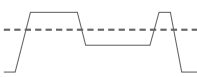


### ASB

off



Switching threshold  
Signal



Sensitivity  
Level



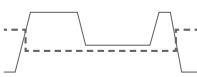
Output



on



Switching threshold  
Signal



Sensitivity  
Level



Output



### Frequencies

You can choose between four different frequencies.

### Advantage

The time response of the output signal can be adapted to the required application.

### Advantage

If ASB (Automatic Sensitivity Boost) is activated then once the vehicle has been detected the sensitivity is increased to the end of detection. ASB ensures that vehicles with greater ground clearance are still detected while they are driving over the loop.

### Advantage

Crosstalk between adjacent loops and interference from other sources on the same frequency are avoided.

## Expanded accessories

The pre-fabricated induction loop is an important component of vehicle detection via a loop detector. It is easy to install in the ground and is available in different dimensions.

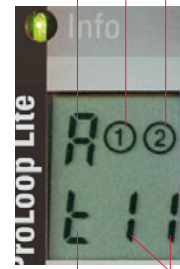


Induction loop

## Display

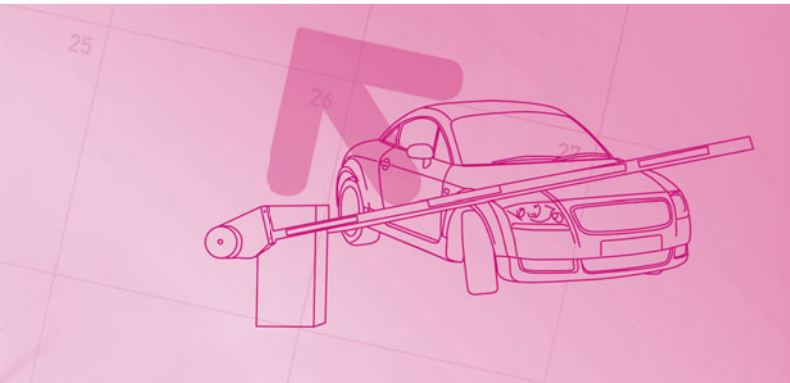
Parameter no.

Loops 1+2



Factor/function

Parameter name



## Applications

### Situation

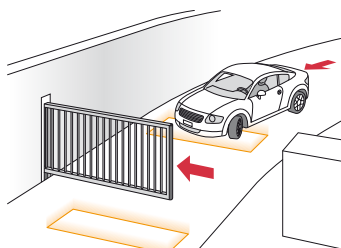
Use on a sliding gate

### Solution

- Opening and closing of gates in interior and exterior applications

### Advantages

- Contactless activation of the gate system
- Reliable operation even in adverse weather conditions



### Situation

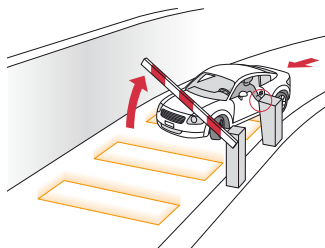
Use on a barrier system

### Solution

- Opening and closing of barriers in the entrance and exit areas of car parks
- Activation of parking ticket dispensers

### Advantage

- The barrier opening pulse can also be used for counting purposes to display the occupancy of multi-storey car parks



### Situation

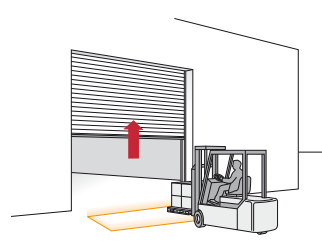
Use on industrial gates

### Solution

- Opening of gates in interior and exterior applications

### Advantage

- Contactless activation of the gate



### Situation

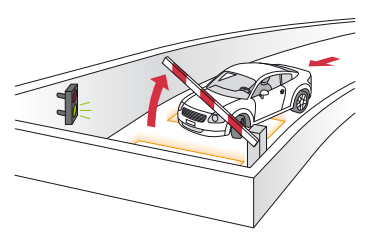
Entrance at gates with traffic lights

### Solution

- Controlling of gates and light signals in obscured entrance areas and bottlenecks

### Advantages

- Traffic control
- Shortened waiting times through optimized traffic flow



## Ordering information

Item no.	Description
<b>1-loop devices</b>	
<b>353 825</b>	ProLoop Lite 1.24DC 1-loop detector with 2 relay outputs
<b>353 826</b>	ProLoop Lite 1.230AC 1-loop detector with 2 relay outputs
<b>2-loop devices</b>	
<b>353 827</b>	ProLoop Lite 2.24DC 2-loop detector with 2 relay outputs
<b>353 828</b>	ProLoop Lite 2.230AC 2-loop detector with 2 relay outputs
<b>Accessories</b>	
<b>213 928</b>	Finished loop, loop circumf. = 6 m, supply cable = 10 m
<b>213 929</b>	Finished loop, loop circumf. = 6 m, supply cable = 15 m
<b>213 940</b>	Finished loop, loop circumf. = 8 m, supply cable = 5 m
<b>213 904</b>	Finished loop, loop circumf. = 12 m, supply cable = 15 m
	Other dimensions available on request: Loop circumference min. 6 m, max. 25 m; supply cable max. 50 m



## Additional products

### ClickLine

Electrical safety edge  
Rubber profiles with click-in foot



### CoverLine

Electrical safety edge  
Rubber profiles for clicking in on the side



### Herkules 2E

Microwave motion detector  
for industrial gates



## Technical data

### Mechanical data

<b>Housing</b>	For DIN rail mounting Material: PA, black/gray
<b>Dimensions</b>	22.5 mm × 94 × 90 (B × H × T)
<b>Weight</b>	140 g
<b>Connection type</b>	Screw-type plug-in terminals
<b>Loop supply cable</b>	∅ 1.5 mm <sup>2</sup> , twisted at least 20x per meter Max. 100 m at 20–40 µH Max. 200 m at over 40 µH

### Electrical data

<b>Supply voltage</b>	24 VDC –10% to +20% 84 mA 230 VAC ± 10%, 50 Hz, 12 mA
<b>Power draw</b>	Max. 2.9 VA
<b>Duty cycle</b>	100%
<b>Loop inductance</b>	Max. 20–1000 µH Ideal 80–300 µH
<b>Frequency range</b>	4 switchable frequencies
<b>Response sensitivity</b>	Frequency change: 0.01–1.00% in 9 levels
<b>Hold time</b>	Infinite (factory setting) or in accordance with programming
<b>Loop resistance</b>	< 8 ohm incl. supply line
<b>Output relay</b>	Max. 240 VAC, 2A/30 VDC; 1 A; AC-1
<b>Channel switching time</b>	1-loop device 25 ms 2-loop device 50 ms
<b>Maximum detectable vehicle speed</b>	50 km/h with corresponding loop
<b>Approval</b>	R&TTE 1999/5/EC
<b>Ambient conditions</b>	
<b>Protection class</b>	IP20
<b>Operating temperature</b>	–20°C to +60°C
<b>Storage temperature</b>	–40°C to +70°C
<b>Humidity</b>	< 95%, non-condensing

### Note

Technical information and recommendations about our products are based on empirical values and represent a guide for the user. The data provided in brochures and data sheets is not an assurance of particular product features. This does not apply to special product features in individual cases that are confirmed by us in writing or on an individual basis. We reserve the right to make changes due to technical developments.

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