

sensing the future



ProLoop

Loop detector for industrial doors and gates, car parks and parking bollards

Intelligent, simple, compact

- 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
- Immediate fault detection on the LCD display

ProLoop

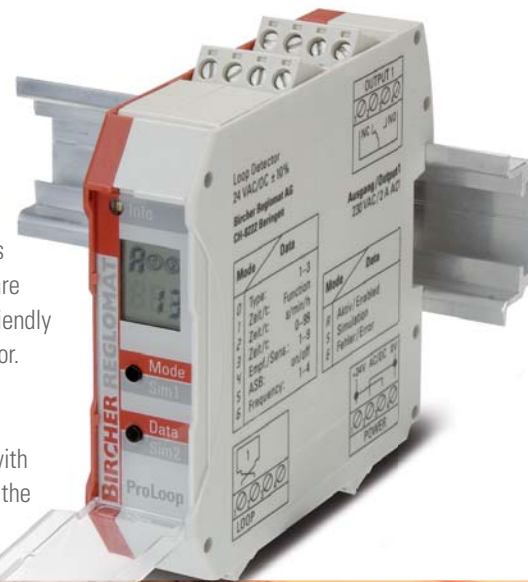
Loop detector for industrial doors and gates, car parks and parking bollards

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, forklifts, trucks or truck/trailer combinations with drawbars are detected with precision. The intuitive operating and display concept makes ProLoop particularly user-friendly and guarantees the highest levels of reliability because the loop is electrically isolated from the detector.

ProLoop – there's nothing easier

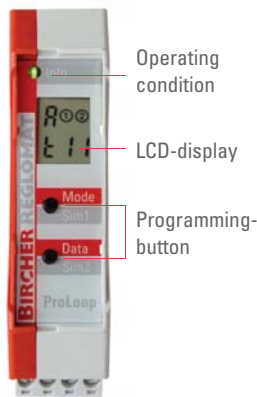
Intelligent software and compact design make operation and start-up really easy. The device variant with 11-pin connection permits rapid modernisation of your loop system simply by plugging new units onto the existing bases.



Your benefits

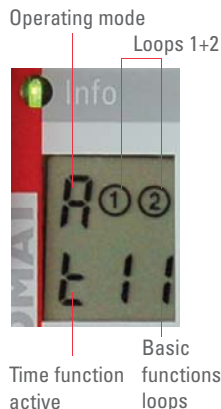
Rapid start-up

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.



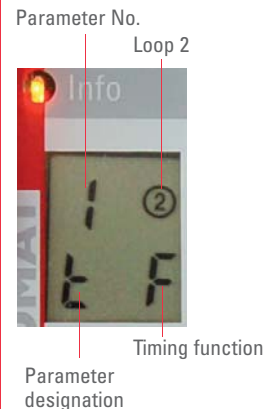
Integral measuring device

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.



Power failure safety

The situation which existed before the power failure is reliably stored. After the power has been re-established, the current value is compared with the stored value and the outputs are switched according to the loop activation.



Additional accessory

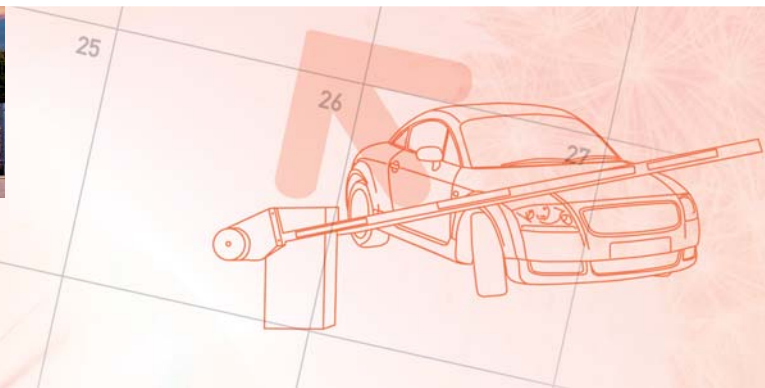
The pre-assembled induction loop is an important component of the loop detection system. It is laid in the ground and can be supplied in different sizes. Replacement bases are available for the 11-pin ProLoop (DIN rail profile).



Plug-in base (11-pin)



Pre-assembled loop



Applications

Situation

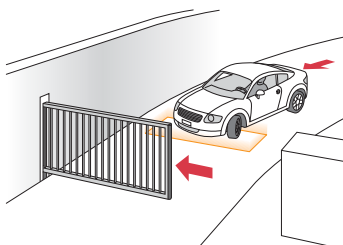
Used with sliding gate

Solution

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

Benefits

- Contact-free activation of gate installations
- Reacts with all metal vehicles



Situation

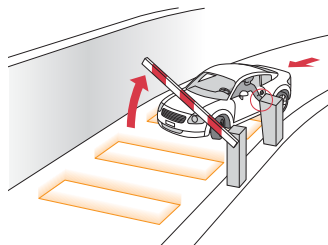
Used in barrier installations

Solution

- The opening and closing of barriers at entrances 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



Situation

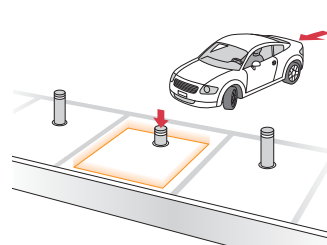
Use with bollards

Solution

- Activation of bollards at entrances, car parks, streets and pedestrian zones
- Prevents false tripping when the bollard is activated

Benefits

- No collision between the vehicle and the bollard, even after a power failure
- Direction logic function prevents inadvertent activation



Situation

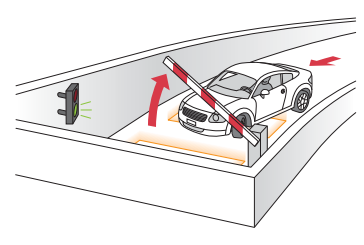
Entrance at gates with traffic light system

Solution

- Control of gates and light signals at entrances and bottlenecks with poor visibility

Benefits

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



Order details



| Article no. | Description |
|-------------------------|---|
| DIN rail variant | |
| 219 949 | ProLoop, 94–240 V AC 1-loop detector with 2 relay outputs |
| 219 945 | ProLoop, 94–240 V AC 1-loop detector with 2 relay outputs and alarm output |
| 219 956 | ProLoop, 94–240 V AC 2-loop detector with 2 relay outputs |
| 219 952 | ProLoop, 94–240 V AC 2-loop detector with 2 relay outputs and alarm output |
| 219 948 | ProLoop, 24 V AC/DC 1-loop detector with 2 relay outputs |
| 219 942 | ProLoop, 24 V AC/DC 1-loop detector with 2 relay outputs and alarm output |
| 219 954 | ProLoop, 24 V AC/DC 2-loop detector with 2 relay outputs |
| 219 951 | ProLoop, 24 V AC/DC 2-loop detector with 2 relay outputs and alarm output |

| 11-pin connection variant | |
|----------------------------------|---|
| 224 484 | ProLoop11, 115 V AC, without plug-in base 2-loop detector with 2 relay outputs |
| 224 485 | ProLoop11, 230 V AC, without plug-in base 2-loop detector with 2 relay outputs |
| 224 483 | ProLoop11, 24 V AC/DC, without plug-in base 2-loop detector with 2 relay outputs |
| 224 481 | ProLoop11, 115 V AC, without plug-in base 1-loop detector with 2 relay outputs |
| 224 482 | ProLoop11, 230 V AC, without plug-in base 1-loop detector with 2 relay outputs |
| 224 480 | ProLoop11, 24 V AC/DC, without plug-in base 1-loop detector with 2 relay outputs |
| 209 745 | Plug-in base BSF-11 for ProLoop 11 |



| Accessories | |
|--------------------|--|
| 213 928 | Pre-assembled loop, loop circumference = 6 m, Supply cable = 10 m |
| 213 929 | Pre-assembled loop, loop circumference = 6 m, Supply cable = 15 m |
| 213 940 | Pre-assembled loop, loop circumference = 8 m, Supply cable = 5 m |
| 213 904 | Pre-assembled loop, loop circumference = 12 m, Supply cable = 15 m |
| | Other dimensions on request: Loop circumference min. 6 m, max. 25 m; Supply cable max. 50 m |



Technical specifications

| Mechanical data | | |
|---------------------------|--------|---|
| Housing | DIN | For DIN rail mounting Material PA red-grey |
| | 11-pin | Lower part with 11-pin connector, material PA black; hood, material PPE red |
| Dimensions | DIN | 22.5 mm x 94 x 90 (W x H x D) |
| | 11-pin | 36 x 74 x 88 mm (W x H x D) |
| Weight | DIN | 140 g |
| | 11-pin | 100 g (24 V), 185 g (115/230 V) |
| Type of connection | DIN | Clamp-type terminals |
| | 11-pin | 11-pin connector |
| Loop supply cable | | Max. 200 m, \varnothing 1.5 mm ² , Min. 20 twists per meter |

| Electrical data | | |
|--------------------------|--------|--|
| Supply voltage | DIN | 24 V AC -20% to +10% 84 mA 24 V DC -10% to +20% 84 mA 94–240 V AC \pm 10%, 50/60 Hz, 23 to 12 mA |
| | 11-pin | 24 V AC -20% to +10% 50 mA 24 V DC -10% to +20% 50 mA 115 V AC -15% to +10% 30 mA 230 V AC -15% to +10% 16 mA |
| Power consumption | DIN | Max. 2 VA |
| | 11-pin | 24 V, 1.2 VA, 115/230 V AC, 3.7 VA |
| On duration | | 100% |
| Loop inductivity | | Max. 40–1000 μ H Ideal 80–300 μ H |
| Frequency range | | 20 – 100 kHz in 4 stages |
| Sensitivity | | Frequency modulation: 0.01 – 4.00% in 9 stages |
| Hold time | | Infinite (factory setting), or according to programming (2 independent time bases) |
| Loop resistance | | < 8 Ohm incl. supply cable |
| Output relay | DIN | Loop: 230 V AC, 2A, AC1 Alarm: 60 V AC, 0.3 A, AC1 |
| | 11-pin | 230 V AC, 2A, AC1 |
| Reaction time | | 1-loop device 150 ms (dynamic) 2-loop device 300 ms (dynamic) |
| Compliance | | R&TTE 1999/5/EC |

| Ambient conditions | | |
|----------------------------|--------|-------------------------|
| Type of protection | DIN | IP20 |
| | 11-pin | IP40 |
| Operating temps. | | -20 °C to +60 °C |
| Storage temperature | | -40 °C to +70 °C |
| Humidity | | < 95 %, no condensation |

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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