



ProLoop Lite

Loop detector for automatic industrial doors & gates and parking solutions

Intelligent, Simple, Compact

- Simple programming for quick & easy start up
- Numerous possible applications
- Maintenance-free, highly reliable
- Easy operation with the LCD display

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ProLoop Lite monitors and evaluates underground induction loops and recognizes metal in vehicles of all types including cars, forklifts, semi trucks (including those with additional trailers), and even motorcycles, bicycles & golf carts with precision. The intuitive operation with an easy-to-read LCD display makes ProLoop Lite a user-friendly choice. Because the loop is electrically isolated from the detector, highest levels of reliability are guaranteed.

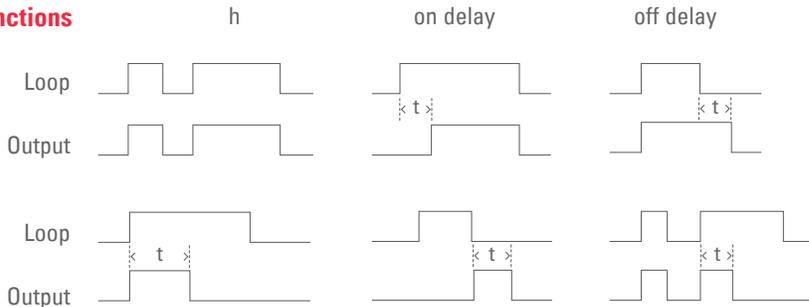
ProLoop Lite – it couldn't be easier!

The intelligent software and compact design enable simple operation and quick start up.



Functions

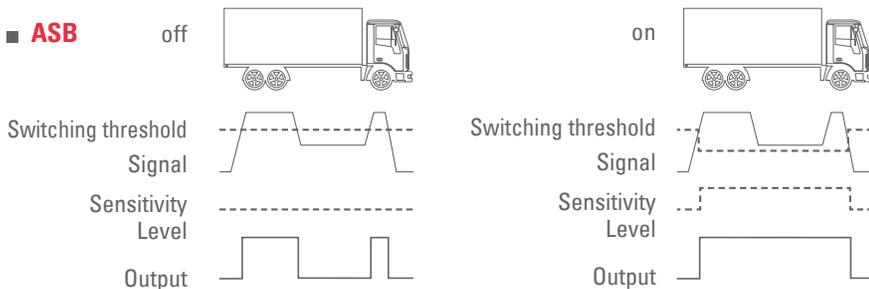
Time functions



Advantage

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

ASB



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.

Frequencies

You can choose between four different frequencies.

Advantage

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

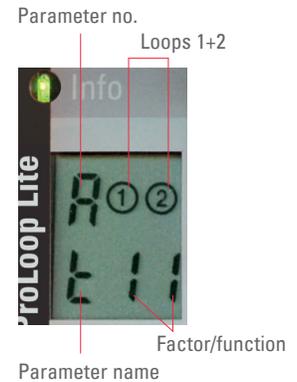
Pre-Assembled Loops

The pre-assembled underground induction loop is an important component of the loop detection system. A variety of circumference and supply cable configurations are available. Please contact BBC Bircher Smart Access for more information.

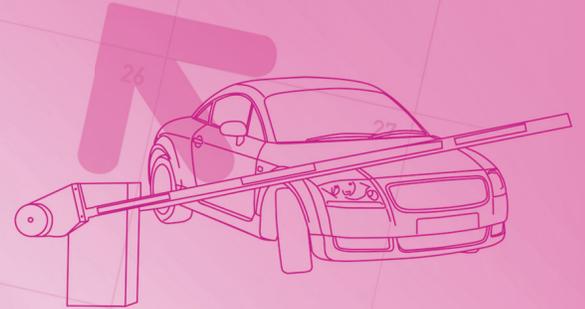


Pre-assembled loop

Display



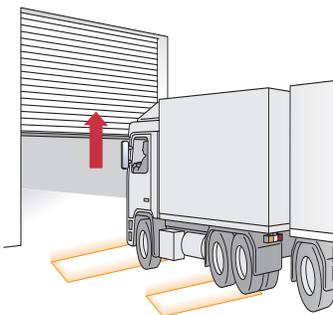
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Applications

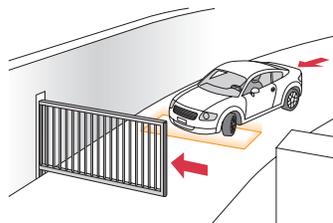
Overhead Doors

- Control of doors and light signals at entrances including bottlenecks with poor visibility
- Targeted activation by directional logic
- Reduced waiting times due to optimized traffic flow



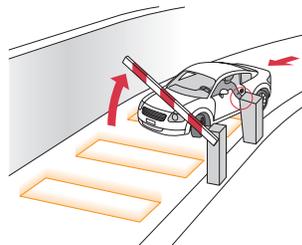
Sliding Gates

- Activates opening and closing of gates in indoor and outdoor areas
- Contact-free activation of gate installations



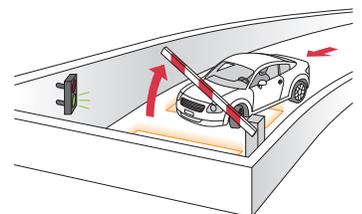
Entry Gates

- Activates opening and closing of barriers at entrances and exits of parking installations
- Can be used to activate ticket dispensing machines
- The opening pulse of the gate can be used as a counter to display real-time vehicle occupancy



Entry Gates with traffic lights

- Controlling of gates and light signals in obscured entrance areas and bottlenecks
- Traffic control
- Shortened waiting times through optimized traffic flow



Ordering information



Part no.	Description
1-loop Detectors	
353825	ProLoop Lite 1.24DC 1-loop detector with 2 relay outputs
353826	ProLoop Lite 1.230AC 1-loop detector with 2 relay outputs
2-loop Detectors	
353827	ProLoop Lite 2.24DC 2-loop detector with 2 relay outputs
353828	ProLoop Lite 2.230AC 2-loop detector with 2 relay outputs
11-pin connection variant	
373677	ProLoop Lite 1.S.24DC, without plug-in base 1-loop detector with 2 relay outputs
373678	ProLoop Lite 1.S.230AC, without plug-in base 1-loop detector with 2 relay outputs
209745	Plug-in base ES12 for ProLoop Lite 1.S
Accessories	
213928	Pre-assembled induction loop, loop circumf. = 20 ft (6 m), supply cable = 32.8 ft (10 m)
213934	Pre-assembled induction loop, loop circumf. = 26 ft (8 m), supply cable = 32.8 ft (10 m)
213901	Pre-assembled induction loop, loop circumf. = 32.8 ft (10 m), supply cable = 32.8 ft (10 m)
213904	Pre-assembled induction loop, loop circumf. = 39.4 ft (12 m), supply cable = 49.2 ft (15 m)
	Other dimensions available on request: Loop circumference min. 20 ft (6 m), max. 82 ft (25 m); supply cable max. 164 ft (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	
Hercules 2s Microwave motion detector for industrial gates	

Technical data

Mechanical data		
Housing	DIN	For DIN rail mounting Material: PA, black/grey
	11-pin	Lower part with 11-pin connector, material PA black; hood, material PPE red
Dimensions	DIN	7/8 × 3 3/4 × 3 1/2" (22.5 × 94 × 90 mm)
	11-pin	1 3/8 × 3 7/8 × 3 1/2" (36 × 74 × 88 mm)
Weight	DIN	5 oz (140 g)
	11-pin	3.5 oz (100 g; 24 V), 6.5 oz (185 g; 230 V)
Type of connection	DIN	Clamp-type terminals
	11-pin	11-pin connector
Loop supply cable		AWG 15 (1.5 mm ²) min. 6 twists/ft (20 twists/m) Max. 330 ft (100 m) for 20–40 µH Max. 660 ft (200 m) for over 40 µH
Electrical data		
Supply voltage/ Power consumption	DIN	24 V DC –10% to +20%, 1.5 W 230 V AC ± 10%, 50 Hz, 2.9 W
Supply voltage/ Current consumption/ Power consumption	11-pin	24 V DC –10% to +20%, 84 mA, 1.3 W 230 V AC ±10%, 50 Hz, 16 mA, 3.7 W
On duration		100%
Loop inductivity		Max. 20–1000 µH Ideal 80–300 µH
Frequency range		4 stages
Sensitivity		Frequency modulation: 0.01 – 1.00% in 9 stages
Hold time		Infinite (factory setting), or according to programming
Loop resistance		< 8 Ohm incl. supply cable
Output relay		AC-1: max. 240 V AC, 50/60 Hz; 2 A DC-1: max. 30 V DC; 1 A
Channel switching time		1-loop device 25 ms 2-loop device 50 ms
Max. ascertainable vehicle speed		30 mph (50 kph) with the appropriate loop
Conformity		RED 2014/53/EU

Ambient conditions	
Type of protecton	NEMA 1 (IP20 IEC 60529)
Operating temps.	–4 °F to +140 °F (–20 °C to +60 °C)
Storage temperature	–40 °F to +160 °F (–40 °C to +70 °C)
Humidity	Max. 95% relative, 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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