Loop Detector
For Vehicle Detection

- Doors and Gates
- Barriers
- Fences
- Card dispensers
Introduction
This new loop detector continues the Carlo Gavazzi tradition of providing superior sensing technology and solutions for the door and entrance control market. The loop detector is an inexpensive and reliable way to detect vehicles. The output signal is useful for controlling all kinds of doors, shutters, swing gates, sliding gates, barriers etc.

Based on more than 500,000 installations in the door market, the LDP family is designed according to market requirements.

Benefits

Automatic calibration
Quick and easy setup of sensitivity by means of push-button or when the device is powered on.

Manual fine-tuning
For ignoring irrelevant objects like bicycles, trolleys etc.

Reliability
The detection capability is not influenced by the alternating seasons, weather etc.

Small housing
The small size improves the utilization of space within enclosures.

Exceptional price / performance ratio
Cost optimized with focus on high reliability.

Modes / Features

LDPI - Single Loop Detector

Pulse and Preset Relays
The single loop detector has two separate relays - one for pulse output and one for present output.

Sensitivity Boost
Improves the detection of high-bed vehicles.

LDP2 - Dual Loop Detector

Pulse or Present Relay
The dual loop detector has two separate relays - one for each loop. Both relays are configurable as pulse or present outputs.

Direction logic
Enables the loop detector to give a pulse output according to the direction of the vehicle.

Common features

Extension of pulse length
The length of the pulse relay signal is extendable.

Detection when leaving or entering the loop
The pulse mode relay can be configured to activate when the vehicle enters or leaves the loop.

On-delay before output activation
Prevents false detections of small or fast moving objects passing the loop.

Selectable loop frequency
Different frequencies prevent crosstalk between adjacent loops.

Indication of malfunction
If the cable loop is damaged, a red alarm LED in front of the housing will activate.
Applications

Acces Control
Door and Gate Control
Operating Barriers
Parking Management
Counting Vehicles
Card Dispensers

Technical Data

- **Operational voltage**: 24V AC/DC ± 15%
- 115V AC ± 15%
- 230V AC ± 15%
- **Power consumption**: AC 3 VA
- AC/DC 1.5 VA / 1.5 W
- **Output relay**: 1 x SPDT relay
- AC 1A/250 VAC
- **Frequency range**: 13-120 kHz
- **Loop inductance**: 5-1500µH
- **Operating frequency**: 1 Hz
- **Operating temperature**: -20° to 70° (-4° to 158°F)
- **Approvals**: UL508, CSA
- **CE marking**: Yes

Ordering Codes

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<th>Type number</th>
<th>Description</th>
<th>Connection</th>
<th>Voltage</th>
<th>Diagram</th>
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