

Loop Detector For Vehicle Detection

- *Doors and Gates*
- *Barriers*
- *Fences*
- *Card Dispensers*



Sense

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 Series** 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, etc.

Reliability

The detection capability is not influenced by the change of 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

LDP1 - Single Loop Detector

Pulse and Present 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 Relays

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

Access Control

Door and Gate Control

Operating Barriers

Parking Management

Counting Vehicles

Card Dispensers

Technical Data

| | |
|------------------------------|---|
| Operational voltage | 24V AC/DC \pm 15% 115V AC \pm 15% 230V AC \pm 15% |
| Power consumption | AC 3 VA AC/DC 1.5 VA / 1.5 W |
| Output relay | 1 x SPDT relay AC1 1A/250 VAC |
| Frequency range | 13-120 kHz |
| Loop inductance | 5-1500 μ H |
| Operating frequency | 1 Hz |
| Operating temperature | -20° to 70° (-4°F to 158°F) |
| Approvals | UL508, CSA |
| CE marking | Yes |

Ordering Codes

| Type Number | Description | Connection | Voltage | Diagram |
|---------------|-------------|--------------|-----------|---------|
| LDP1SA1BM24 | Single Loop | 11Pin Socket | 24V AC/DC | |
| LDP1SA1B115 | Single Loop | 11Pin Socket | 115V AC | |
| LDP1SA1B230 | Single Loop | 11Pin Socket | 230V AC | |
| LDP1TA1BM24-2 | Single Loop | 11Pin Socket | 24V AC/DC | |
| LDP1TA1B115-2 | Single Loop | 11Pin Socket | 115V AC | |
| LDP1TA1B230-2 | Single Loop | 11Pin Socket | 230V AC | |
| LDP2TA2BM24 | Dual Loop | 11Pin Socket | 24V AC/DC | |
| LDP2TA2B115 | Dual Loop | 11Pin Socket | 115V AC | |
| LDP2TA2B230 | Dual Loop | 11Pin Socket | 230V AC | |