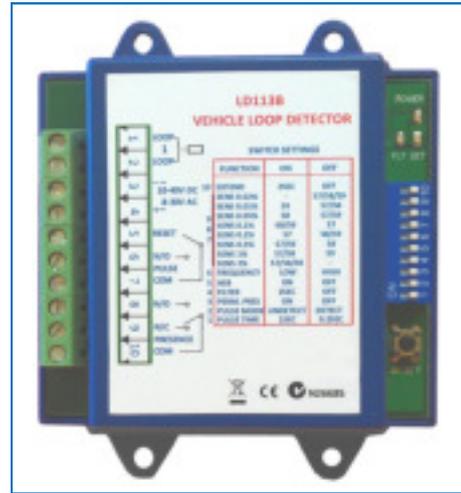


# SafePass Loop Detectors

## LD113B & LD213B Compact Loop Detectors

The LD113B is a single channel inductive loop detector and the LD213 is a dual channel, they are designed for parking and access control applications.

With a very fast response time of 120ms the loop will provide an excellent safety feature for even the fastest doors and parking boom gates.



Loop detectors are most often used to open or prevent the closing of boom gates, doors or sliding gates.

The detector is connected to an inductive wire loop mounted in the road surface. When vehicles pass over the loop the detector switches an output.

The use of microprocessor and surface mount technology enables a large number of functions to be incorporated into a small package. The small size of the LD 113/213 and the 4 screw fixing points make them ideal for mounting in confined spaces.

The eight sensitivity settings and ASB (automatic sensitivity boost) offer enough flexibility to detect small cars and high bed trucks.

### LD113B & LD213B Compact Loop Detector features:

- **Reset Switch:** The reset switch enables the detector to be manually reset during commissioning and testing. This results in the detector re-tuning the sensing loop and becoming ready for vehicle detection.
- **Selectable Pulse Time:** This feature sets the length of time that the pulse relay will be energised for 0.1 second or 0.2 second.
- **Pulse Relay Selection:** The Pulse relay may be configured to energise on detection of a vehicle or when the vehicle leaves the loop.
- **Sensitivity Boost:** This feature sets the undetect level to maximum sensitivity and is used to prevent loss of detection of high-bed vehicles.
- **Switch selectable Sensitivity:** Eight sensitivity settings are available on the switches to allow flexibility in configuration.
- **Switch selectable Frequency:** Two frequency settings are available to prevent cross-talk between adjacent loops.
- **Filter Option:** This option is used to provide a delay between detection of the vehicle and switching of the output relay. This delay is normally used to prevent false detection of small or fast moving objects.
- **Permanent Presence Option:** This feature ensures detection of the vehicle will be maintained when the vehicle is parked over the loop for extended periods.

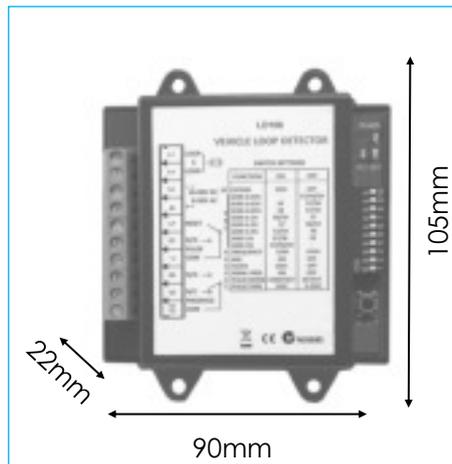
### Available with the LD213B Series Only

- **Selectable N/O or N/C relay output:** Internal jumpers enable the output relay contacts to be configured for normally open or normally closed contacts.
- **Direction Logic:** This feature enables the detector to give a pulse output on relay1 for a vehicle travelling from loop1 to loop2 and a pulse output on relay 2 for a vehicle travelling from loop2 to loop1.

## Technical Specifications

Specification	LD13B & LD213B Compact Loop Detectors																								
Power Requirement	10 - 50 VDC 60 mA    8 - 35v VAC 50/60Hz																								
Presence / Pulse relay	0.5A/220VAC																								
Indicators	LED indicators show: Power, Detect state and Loop Fault																								
Detector Tuning Range	15 - 1500 uH																								
Frequency	Two step adjustable 23—130kHz																								
Sensitivity Settings	<table border="0"> <tr><td>1</td><td>0.01 %</td><td>HIGH</td></tr> <tr><td>2</td><td>0.02 %</td><td></td></tr> <tr><td>3</td><td>0.05 %</td><td></td></tr> <tr><td>4</td><td>0.1 %</td><td></td></tr> <tr><td>5</td><td>0.2 %</td><td></td></tr> <tr><td>6</td><td>0.5 %</td><td></td></tr> <tr><td>7</td><td>1 %</td><td></td></tr> <tr><td>8</td><td>2 %</td><td>LOW</td></tr> </table>	1	0.01 %	HIGH	2	0.02 %		3	0.05 %		4	0.1 %		5	0.2 %		6	0.5 %		7	1 %		8	2 %	LOW
1	0.01 %	HIGH																							
2	0.02 %																								
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4	0.1 %																								
5	0.2 %																								
6	0.5 %																								
7	1 %																								
8	2 %	LOW																							
Protection	Loop isolation transformer, zener diode and gas discharge tube																								
Environmental Tracking	Automatic compensation																								
Response Time	120ms after vehicle enters the loop																								
Connector	LD 113B: 10Way Screw terminal LD 213B: 14Way Screw terminal																								
Operating Temperature	-20°C to + 70° C																								

## Dimensions



Rotech supply all forms of door and gate automation

### Vehicle Access Control

- Booms Gates
- Sliding Gates
- Swing Gates
- Industrial Door Openers
- Solar Powered Gate Openers

### Pedestrian Access Control

- Full Height Turnstiles
- Waist Height Turnstiles
- Supermarket Gates/Turnstiles
- Wheelchair Access Gates
- Rapid Access Gates

**Fast | Safe | Secure**