

SafePass Loop Detectors

LD116 Series Loop Detector

Single and dual channel vehicle detectors - din rail mount

These detectors are ideally suited to applications where space is limited and also as a replacement for imported European brands.

With a very fast response time of 12ms the loop will provide an excellent safety feature for even the fastest doors and parking boom gates.



The LD 116 series of loop detectors have the same features and quality of the LD 100 series but are housed in a compact din rail mount enclosure.

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

LD116 Series 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.

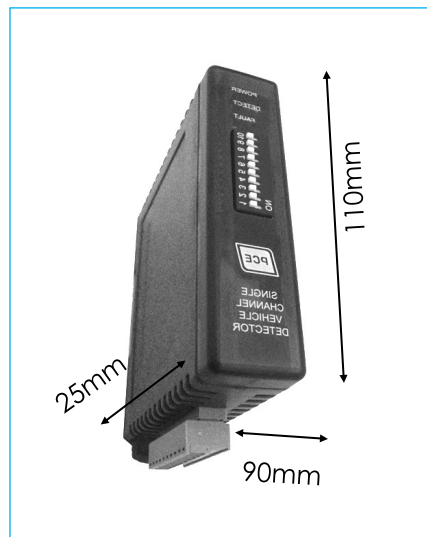
Available with the LD213B Series Only

- **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	LD116 Series Loop Detector																								
Power Requirement	11 - 26v ac/dc 100mA max																								
Presence / Pulse relay	Change over contact 0.5A /220vac																								
Indicators	LED indicators show: Power, detect state and loop fault																								
Detector Tuning Range	15—1500uH																								
Frequency	Approx. 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 with zener diodes and gas discharge tube																								
Environmental Tracking	Automatic Compensation																								
Response Time	Approximately 120ms after vehicle enters loop																								
Connector	10 way removable screw terminal block																								
Operating Temperature	-40 °C TO +80 °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