



AUTOMATION SYSTEMS AND SOLUTION

Model – LD200 Series Dual Channel Loop Detector



The LD200, LD201, LD202 dual channel inductive loop detector designed for parking and access control applications.

Typical applications in the parking and access control environments are safety loops for barriers or gates, arming loops for activating card dispensers, vehicle counting with direction logic.

Features:

Reset Switch. Pressing the reset switch enables the detector to be manually reset during commissioning and testing.

Switch selectable Sensitivity. The detect sensitivity is the minimum change in inductance required to produce a detect output. (% Δ L/L). Eight sensitivity settings are available on the switches to allow flexibility in configuration.

Switch selectable Frequency. The frequency of the loop is determined by the inductance of the loop and the frequency switch setting. If the frequency switch is on, the frequency is reduced.

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 relay2 for a vehicle travelling from loop2 to loop1. To enable this feature switches 2 and 4 must be on, and switches 3 and 5 must be off.

Pulse Relay Selection. The detect relay may be configured for a pulse output, and to energise on detection of a vehicle or when the vehicle leaves the loop.

TECHNICAL SPECIFICATIONS

Power supply	LD200 200 - 260VAC 50Hz 1.5VA LD201 100 - 120VAC 60Hz 1.5VA LD202 11 - 26VAC/DC 50/60Hz 95mA max.
Presence Relay Mode	0.5A/220VAC (Fail Safe – normally energized)
Pulse Relay Mode	0.5A/220VAC(Non Fail Safe–normally deenergized)
Response time	Approximately 120ms after vehicle enters loop.
Indicators	LED indicators show: Power, Detect state and Loop Fault.
Detector tuning range	15 - 1500uH
Loop Frequency	Approx. 23 – 130KHz (Multiplexing)
Protection	Loop isolation transformer with Zener diodes and gas discharge tube.
Connector	11 Pin Connector on rear of unit.
Dimensions	80mm (height) X 40mm (width) X 79mm (Depth excl. connector).
Operating Temperature	-40°C to +80°C
Storage Temperature	-40°C to +85°C

- LD200 Series - Dual channel boxed detector
- LD213 Series - Dual channel card detector
- LD213B - Dual channel boxed detector
- LD216 Series - Dual channel vehicle loop detector
- LD220T Series - Dual channel boxed loop detector with RS485 communications



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