



# AUTOMATION SYSTEMS AND SOLUTION

## Model – LD230 Series Dual Channel Loop Detector



The LD230 is a dual channel inductive loop detector designed for Traffic and access control applications.

Typical applications in the traffic environment are traffic counting, high speed measuring and high speed detection.

### 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. (% $\Delta$ 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

<b>Power supply</b>	LD230 200 - 260VAC 50Hz 1.5VA LD231 100 - 120VAC 60Hz 1.5VA LD232 11 - 26VAC/DC 50/60Hz 95mA max.
<b>Presence Relay Mode</b>	0.5A/220VAC (Fail Safe – normally energized)
<b>Pulse Relay Mode</b>	0.5A/220VAC(Non Fail Safe–normally deenergized)
<b>Response time</b>	Approximately: 0.02% = 22 +/-2ms, 0.05% & 0.1% = 15 +/-1ms, 0.5% = 8 +/-1ms after vehicle enters loop.
<b>Indicators</b>	LED indicators show: Power, Detect state and Loop Fault.
<b>Detector tuning range</b>	15 - 1500uH
<b>Loop Frequency</b>	Approx. 23 – 130KHz (Multiplexing)
<b>Protection</b>	Loop isolation transformer with Zener diodes and gas discharge tube.
<b>Connector</b>	11 Pin Connector on rear of unit.
<b>Dimensions</b>	80mm (height) X 40mm (width) X 79mm (Depth excl. connector).
<b>Operating Temperature</b>	-40°C to +80°C
<b>Storage Temperature</b>	-40°C to +85°C



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