



# AUTOMATION SYSTEMS AND SOLUTION



## Model – LD400 Series Four Channel Loop Detector

The LD400 is a four 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. ( $\% \Delta L/L$ ). Eight sensitivity settings are available on the switches to allow flexibility in configuration.

**Selectable Frequency.** The frequency of the loop is determined by the inductance of the loop and setting of the frequency input on the 10way input connector. If the frequency input is shorted, 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. Loops 3 and 4 operate in the same way as loops 1 and 2. To enable this feature switch on switches 4 and 6 for loops 1 and 2 and switch 2 ON for loops 3 and 4.

**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>	LD400 200 - 260VAC 50Hz 1.5VA LD401 100 - 120VAC 60Hz 1.5VA LD402 11 - 26VAC/DC 50/60Hz 160mA 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 120ms after vehicle enters loop.
<b>Indicators</b>	LED indicators show: Power, 4XDetect state
<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



**Automation**  
Systems & Solution

T-12, 3rd Floor, Pankaj Central Market, I.P. Extension, Patparganj, Delhi - 110 092

PH.NO: +91 11 41709077 / 22232187, Email.ID: infoautomation18@gmail.com

Web: www.automationsystem.in