



## Single Channel Loop Detector

### Description

Loop detectors in recent years have become a popular tool having innumerable applications in policing, right from surveillance operations to traffic control. Automation of gates and doors has become a popular usage of the loop detector.

The digital technology of the loop detector enables the equipment to sense a change in the inductance of the loop as soon as it detects the metal object in its path. The inductive loop which detects the object is made of insulated electrical wire (32/020; 32 Strand, 2mm diameter) and is arranged either as a square or rectangle shape.

The loop consists of several loops of wire and consideration should be giving to the loop sensitivity when installing on different surfaces. Setting the correct sensitivity allows the loop to operate with maximum detection (16 levels via a trimpot). When detection occurs, the detector energises 2 relays for the output (each can be configured individually). This energising of the relay can be configured into different modes, by selecting the respective dip switch.

The LD-100 Enhanced Vehicle detector is also provided with an integral fault relay, which will provide an output in the event of a loop fault condition.

### Features

**Compact Size:** the compact and well engineered housing Combines all of the industry requirements regarding Features and functionality and allows this detector to be Incorporated into any or existing traffic detection system.  
**Diagnostic Capabilities:** Comprehensive diagnostics Capabilities allow for accurate diagnosis of loop and Installation problems.

**Selectable Presence Time:** The output of the presence Relay can be selected to limit a detect output to a fixed time(time>30 minutes)while a vehicle remains on the loop  
**Loop Frequency Indication:** Interference between adjacent loop/detectors can be determined by an integral indication, and eliminated by changing the frequency setting.

Two separate output relays:

Presence Relay A is presence output. Can be extended for 0,2,5,8,10,15,20 or 30 seconds, programmable with external 10 way DIP switches.

Pulse Relay B, programmable with external 10 way DIP switches, provides presence, pulse on entry, pulse on exit, or failed output.



### Applications

- Traffic Control Application
- Vehicle Counting
- Toll Systems
- Traffic Analysis
- Parking Control Application



