



AUTOMATION SYSTEMS AND SOLUTION



Model – LD140 Series Single Channel Loop Detector

The LD140 has been designed as a multipurpose inductive loop vehicle detector for use in parking, access control and traffic applications.

Typical applications in the traffic environment are traffic control and access control environments are safety loops for barriers or gates, arming loops for activating card dispensers, entry or exit loops and vehicle counting.

Features:

Reset Switch. Pressing 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.

Custom LCD Display. The custom liquid crystal display is used in conjunction with the two menu up/down push buttons to show configuration and diagnostic information, such as loop frequency and % Δ L/L value. The detector functions like a loop analyser.

Enhanced User Interface. Allows for all functions to be programmed from the front panel LCD menus.

Loop Fail Diagnostics. Provides an indication of shorted loops and open circuit loops.

Automatic Tuning. This results in the detector re-tuning the sensing loop and becoming ready for vehicle detection. Also includes continuous environmental monitoring and tracking for optimal performance.

Vehicle Counter. Counts vehicles as they move over the loop. The counter keeps its value in the event of a power failure and has a maximum value of 999999.

Loop Protection. Uses a loop isolation transformer with zener diodes and gas discharge tube.

Programmable Features. Selectable Detect Sensitivity, Automatic Sensitivity Boost Option, Filter Timer & Extend Timer, Selectable Pulse Time, Selectable Fail Safe/ Fail Secure operation, Adjustable loop frequency.

TECHNICAL SPECIFICATIONS

Power supply	LD140 200 - 260VAC 50Hz 1.5VA LD141 100 - 120VAC 60Hz 1.5VA LD142 11 - 26VAC/DC 50/60Hz 65mA max.
Presence Relay 1	Change over contact 0.5A/220VAC (Fail Safe – normally energized) (Fail Secure – normally energized)
Pulse Relay 2	Change over contact 0.5A/220VAC(Pulse on detect/undetected– normally deenergized) (Presence mode/loop fault mode–normally deenergized)
Response time	Approximately 120ms after vehicle enters loop. Adjustable 50ms to 9.00 seconds
Indicators	LED indicators show: Power, Detect state
Detector tuning range	15 - 1500uH
Loop Frequency	Approx. 23 – 130KHz
Power Fail Memory	20 Seconds
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	-20°C to +70°C
Storage Temperature	-40°C to +85°C



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