

THE ENGINEERING IS DONE

Reliable Inductive Vehicle Detection



Details

Part Number	LD-1
Part Name	Single Channel Vehicle Loop Detector
Type	Inductive Loop Detector
Dimensions	3.1 x 0.9 x 3.5 in
Material	ABS plastic housing
Finish	Blue
Rating	Indoor control / IP20
Power Input	12/24 VAC/VDC

- Automatic calibration after power-up
- Four adjustable sensitivity levels
- Presence and pulse relay outputs
- 5-minute or infinite hold time
- Low/high frequency selection
- DIN-rail mount; 12/24 VAC/VDC

Solution

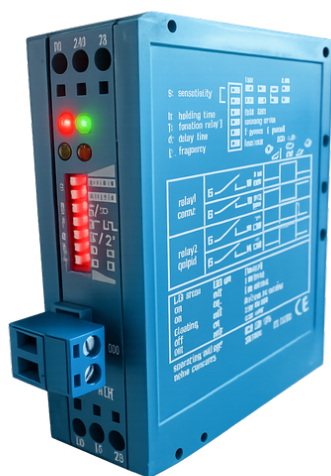
Reliable inductive vehicle detection for gates, barriers, parking controls, traffic systems, warning signs, and access automation.

Description

The LD-1 is a compact single-channel inductive loop detector that recognizes vehicles through a loop installed in the pavement. Automatic calibration and continuous frequency rebalancing support stable operation, while four adjustable sensitivity levels adapt to different loop sizes and vehicle types. DIN-rail mounting and relay outputs simplify integration with control systems.

Operations

When a vehicle enters the loop, the LD-1 activates the presence relay and illuminates the red LED. Relay 2 can provide a continuous output or a pulse, and hold time can be set to 5 minutes or infinite. Low/high frequency selection helps reduce cross-talk between adjacent loops. Loop faults are indicated by the LEDs and automatically rechecked.

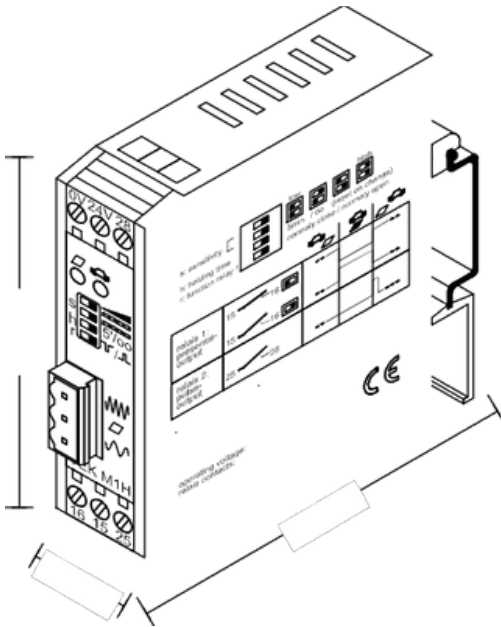


Includes

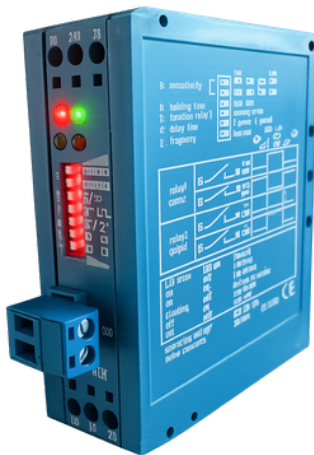
(1) LD-1 single-channel loop detector
DIN-rail mounting format
Quick setup guide

Inductive pavement loop sold separately

Controls & Terminals



Product Views



Application

Barrier and gate controls
Parking access systems
Vehicle exit detection
Traffic-control systems
Warning signs and alarms
Single-space monitoring

Performance Specs

Frequency	20-130 kHz
Loop Inductance	50-800 μ H
Sensitivity	4 levels
Hold Time	5 min / infinite
Temperature	-4 to +158 $^{\circ}$ F

