

Model 724L Four Channel LCD Loop Detector

FEATURES

- Rack-mounted, self-tuning high-speed 4-channel model
- Back-lighted graphics Liquid Crystal Display (LCD)
- Twenty programmable sensitivity levels per channel
- Eight (8) programmable frequencies and sequential scanning operation to minimize crosstalk
- Four (4) programmable operating modes: Pulse, Presence, Off, Constant Call
- Programmable Delay and Extension Timing
- Programmable Presence Retune Timing
- Vehicle Counting from 0 to 999,999
- Detection LEDs provide separate indications for presence, delay, and extension
- Diagnostic LEDs indicate three types of faults
- EIA-232 communications port
- Non-volatile EEPROM saves configuration settings, user defined channel labels, and event logs
- Meets or exceeds NEMA TS-1 and TS-2 specifications for inductive loop detectors
- Optional front panel test switches*- 1 per channel
- Meets or exceeds NEMA TS1 and TS2 specifications for inductive loop detectors



The Naztec Model 724L LCD Inductive Loop Detector is a full-featured detector with graphics LCD display that takes the guesswork out of set-up. All pertinent real-time data along with graphs showing signal strength and loop frequency stability are readily displayed. Programming is greatly simplified with intuitive menu-driven screens. A flexible display format can show 1, 2, or 4 channels at once. Back-lighting makes the LCD viewable even in low ambient lighting.

The 724L is a robust and reliable rack mounted vehicle detector. It incorporates Naztec's tried-and-true "detection engine". The loop oscillator circuitry uses high-performance integrated circuit op-amps which are far superior to simple, thermally uncompensated transistors. Automatic self-tuning and twenty selectable sensitivity levels ensure trouble-free operation. Crosstalk between adjacent loops is minimized by selecting one of eight different oscillator frequencies for each loop. Crosstalk between adjacent channels is eliminated by sequential scanning of the loops.

All 724L channels are individually capable of four different operating modes. In *Pulse Mode*, a 125 millisecond output pulse is generated in response to a vehicle entering the loop. In *Presence Mode*, the output is active as long as the loop is occupied. In *Off Mode*, the channel is turned off with the output in the inactive state. In *Constant Mode*, the channel is also turned off, except that the Detect output remains constantly on. Vehicle Counting from 0 to 999,999 can be individually enabled and displayed.

Programmable Presence Timing allows presence detection length to be fixed, or user selectable from 1 to 120 minutes. *Delay Timing* allows the output to be delayed up to 300 seconds after the beginning of detection. *Extend timing* allows the output to remain active up to 60 seconds after the end of detection. Time increments for shorter periods can be programmed in 0.1 second intervals.

Separate LEDs for detection and fault status provide additional information at a quick glance. A 2 Hz flash rate of the DETECT LED indicates Delay, while a 4 Hz flash indicates Extend. The FAULT LED uses 4 Hz, 2 Hz, and 1/2 Hz modes to indicate loop shorted, opened, and inductance change of more than 25%, respectively. An EIA-232 port is provided to support serial communications per the TS2 standard.

