

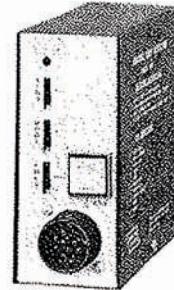


LOOP AMPS & VEHICLE DETECTION



DETECTOR SYSTEMS

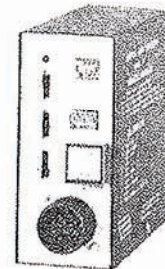
Digital Loop Detector Models 810,811,812



Features

- Detects all vehicles
- No tuning or warm-up required
- Wide inductance range (30 to 1000 microhenries)
- Complete digital design
- Three selectable presence modes
- Three selectable sensitivity levels
- Three selectable loop frequencies
- Continuous loop monitor with memory
- Hi intensity LED (light emitting diode) indicator
- Standard single channel MS connector wiring
- Compact size (5" high x 2" wide x 5-1/2" deep)

Digital Loop Detector Models 813, 813-SS

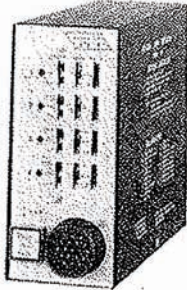


Features

- Includes all the outstanding features of the Model 810 Detector.
- All controls located on front panel.
- Digital Delay and Digital Extension timers are totally independent.
- Delay Time Range 0-31 seconds with resolution of one second.
- Extension Time Range of 0-7.5 seconds with Resolution of 0.5 second.
- Delay Time Override connected to Pin J (120 VAC 60 Hertz)

DETECTOR SYSTEMS

Digital Loop Detector Models 840, 841



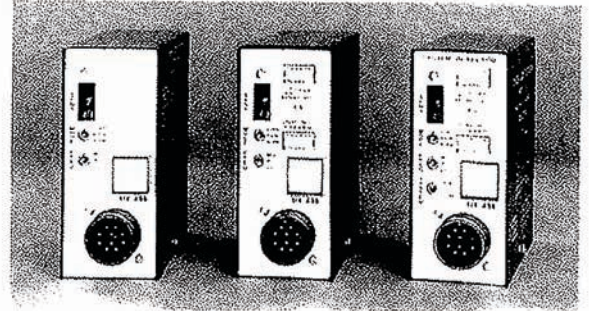
Features

- Complete digital design
- Four channels in a compact package
- Standard four channel connector wiring
- All controls on front panel
- Same outstanding performance as Model 810
- Hi intensity LED indicators
- Relay or optical coupled solid state output
- Compact size: 2-3/4"W x 6-1/2"H x 8-1/4"D

DETECTOR SYSTEMS

Single Channel Digital Loop Detectors

Models 910, 910-SS, 913, 913-SS, 914 & 914-SS



910 & 910-SS Features

- **Self tuning** and tracking
- Complete **low power** C-MOS digital microprocessor design
- **Wide** inductance range (20 to 2500 microhenries)
- **Thumbwheel** switch for sensitivity settings (10 selectable levels)
- **Gold Contact** toggle switches on front panel for frequency and mode positions
- **Three** selectable modes
- **Three** selectable loop frequencies
- Relay or solid state output
- **Continuous** loop monitor with memory that identifies **failed loops** when the front panel LED is observed with a repeating series of 3 flashes
- **Lead-in** cable lengths up to **1 mile** from controller
- Standard single channel **MS connector** wiring
- **Compact size:** height - 5.00 inches; width - 2.25 inches; depth - 5.50 inches

913 & 913-SS Features

Includes all features of the 910 detectors with the addition of the following:

- Digital delay and extension timers are totally **independent**
- **Delay** time range of 0-63 seconds with 1 second resolution
- **Extension** time range of 0-15.75 seconds with 0.25 seconds resolution
- **Delay override** connected to Pin J (120 VAC, 50/60 Hz)

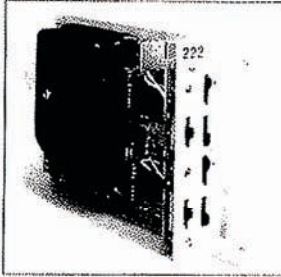
914 & 914-SS Features

Includes all features of the 910 & 913 detectors with the addition of the following:

- **Normal output:** Output "A" is a normal detector output conditioned with delay and extension timers
- **System output:** Additional output for use with traffic systems for accurate volume, occupancy and speed measuring. Front panel mounted toggle switch which allows pulse or presence operation.

DETECTOR SYSTEMS

Dual Digital Loop Detector Models 222, 222R

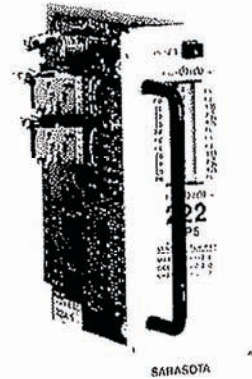


Features

- Two detectors in a single module
- Operates from a single D.C. Supply
- Optical couples output circuits
- Transformer isolation for loops
- Hi Intensity LED indicators
- Self tuning and tracking

SARASOTA

222 GP5, 224 GP5 Multichannel Detector Modules for Type 170 Controllers



- Present and historical fault indicators
- Separate fault LEDs for each channel
- High sensitivity to 0.01%
- Sequentially scanned loops
- Seven sensitivity levels per channels
- Four frequency selections per channel
- Super fast response times
- Pulse or presence modes per channel

The 222 and 224 Group 5 series high performance vehicles detectors introduce new standards of performance to an increasingly complex and demanding traffic environment. These high performance card rack detectors compensate for marginal loop conditions and provide hands-free diagnostics to identify between present and past loop failures while identifying the failure as an open loop, a shorted loop or sudden changes in loop inductance.

Fast, predictable and consistent response times facilitate accurate speed and occupancy measurements for IVHS applications. An optional RS232 front panel communications port is also available for remote control and monitoring of the detector and loop. Internal addressing allows a single serial interface unit to address up to sixteen detectors, thus allowing remote diagnostics of up to sixty-four different channels or loops at an intersection via telemetry.

SARASOTA

515B/MS, 515B Single Channel Vehicle Detector



- Microcomputer controlled digital vehicle detector
- Fast automatic tuning
- Crosstalk filter (patent pending)
- Comprehensive failsafe features
- Exceeds NEMA standards

The Sarasota 515B/MS is a single channel inductive loop detector using the latest microcomputer technology to provide sensitivities and response times substantially independent of loop size. Failsafe circuitry quickly identifies open or short circuit loop faults and is backed up by a "self healing" feature which enables the detector to revert to normal operation once the fault condition is removed, subject to presence time.

Another advanced feature of the 515B/MS is the inclusion of a crosstalk filter (patent pending) to minimize problems at installations where several identical size loops are in close proximity.

The 515B/MS is a flexible high performance detector suitable for use in a wide range of vehicle detector applications where single channel shelf mounted units are desired.

SARASOTA

516B/MS GP2, 516T/MS GP2, 517B/MS GP2 Multi-Channel Vehicle Detectors



- Microprocessor controlled scanning type digital detector
- Comprehensive failsafe features
- Meets and exceeds NEMA standards

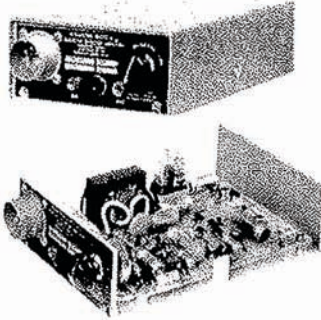
The 500 series Multi-Channel detectors offer a choice of two to four channels in a single compact shelf mounted unit. Designed for high reliability the microprocessor based circuit includes a crystal timing reference guaranteeing accurate and repeatable operation over long periods. The unique Sarasota software ensures continuous environmental tracking even when a vehicle is present as well as providing fixed presence time for small signals.

Delay and Extension Timing is offered as an option on the dual channel unit with the ability to use either or both and to accept external control signals. As all switch settings and detector values are read by the microcomputer on each scan, it is not necessary to reset the detector following changes in switch settings.

Versatility, high performance, reliability and cost effectiveness are only a few of the advantages of using these detectors in today's rapidly changing traffic control industry.

AUTOMATIC SIGNAL

Magnetic Detector Amplifier Model MR-10



The Model MR-10 Magnetic Detector Amplifier is a low-noise, high-gain, fully solid-state amplifier of small physical size for use with all types of Magnetic Detectors. It amplifies the very small voltages induced in the detector by vehicle actuation to the level required to produce an appropriate detection (ground) signal for a traffic signal controller or counting device. A single MR-10 may be used to handle impulses from all magnetic detectors on a single traffic phase. An output relay, with normally open and normally closed contacts, insures registration and transmission of overlapping impulses from two MR-10's when used in counting applications. Failsafe circuit design assures a constant detection signal for control equipment in the event of loss of power to the amplifier unit.

The MR-10 is housed in a heavy aluminum case 7-1/2 inches deep, 5 inches wide and 2-1/2 inches high. Case design conserves valuable control cabinet space and permits stacking of multiple units one atop another. All connections to the detector and other external circuits are made through one MS Connector on the front panel of the unit. Power consumption is nominally two watts when operating from a 120 volt, 60 Hertz A.C. power line.

In addition to the MS Connector, the front panel of the MR-10 contains a Sensitivity Control Knob and two Test Jacks for adjustment of the amplification level to optimum. A Detector Actuation indicator is located between the test jacks. The indicator flashes as each actuation is registered, simplifying adjustment of the Sensitivity Control.

Long, maintenance-free service is assured by the use of temperature-compensated solid-state circuitry utilizing high quality silicon transistors. Semiconductors, and other components are mounted on a single printed circuit board. Circuit design provides stable operation within an ambient temperature range of -30 degree Fahrenheit to -180 degree Fahrenheit. A 1/10 Amp Slo-Bio fuse, inside the case, protects the power supply.

Other Brands & Models Also Available