MODEL ULTRA II

Vehicle Loop Detector

Features:

- ULTRAMETER displays optimum sensitivity setting / diagnostic aid
- Frequency count / reset switch
- 10 sensitivity settings
- Loop diagnostics
- 4 operating frequencies
- Lightning and surge protection
- Frequency counter
- Fail safe operation

Application:

The Ultra II was designed to be a more compact, energy efficient, cost effective and reliable detector that is easier to install and setup.
Sensitivity selection is simplified by the ULTRAMETER display that indicates the appropriate sensitivity setting to detect the vehicle positioned on the loop.
The 10 sensitivity settings allow for finer adjustment of the detection level, while the 4 frequency settings provide greater flexibility in preventing crosstalk in multi-loop applications.

Indicators & Controls:

DIP SWITCH

4 positions that control frequency, ASB (automatic sensitivity boost) and Filter (provides for reducing noise interference)

SENSITIVITY

Rotary switch is used to fine tune adjustment of loop detection height.

OUTPUT LED

The Red LED indicates the detection output status

ULTRAMETER

Visual indicator of optimum loop sensitivity setting

POWER LED

During operation, the Green LED permanently ON indicates a normal operating condition; blinking indicates a loop failure condition.

FREQUENCY COUNT SWITCH

Momentary push button to check operating frequency of the loop. (Indicated by the Red LED blinking at 10 kHz per blink). May also be used to hard re-set the Ultra II.

ENGINEERED PARKING SYSTEMS
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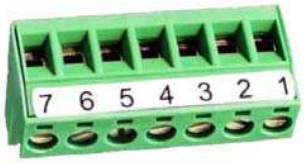
The ULTRAMETER display makes installation, set-up and troubleshooting easy. Each time a vehicle is moved onto the loop, the display indicates the sensitivity necessary to detect vehicle. Simply set the sensitivity to the value displayed to detect the vehicle.

Interference or crosstalk from adjacent loops or other sources are displayed as a constantly varying number on the ULTRAMETER. This condition may be avoided by maintaining a minimum of 5 kHz separation in multi-loop applications.



LD-7P
Pluggable 7 position terminal block

Pin
1 = Loop 5 = Relay N/O
2 = Loop 6 = Relay COM
3 = Power 7 = Relay N/C
4 = Power

Technical Data

Power Supply	12-30 VDC and 24 VAC
Current Draw	18 mA max.
Dimensions	L= 3.0in W= 0.9in H= 2.75in
Weight	0.15 lbs.
Loop Inductance	20…2000µH (Q factor > 5)
Environmental tracking	Automatic Compensation
Operating environment	-40º F…180 Fº, 0…95% relative humidity
Housing material	PVC
Connection	Plug-in 7 Position screw terminal to aid in wiring.
Loop Compensation	Isolation transformer allows operation with poor quality loops
Loop Frequency	4 settings (low, med-low, med-hi, high)
Surge Protection	Loop circuitry protected by surge suppressors
ULTRAMETER® Display	Indicates optimum sensitivity level, 0-9 Diagnostic aid
Output	Relay, 1A@24VDC, COM, N.O., N.C.
Power / loop fault indicator	Green LED
Detect / frequency count indicator	Red LED
Frequency Count	To aid in detector set up and prevention of cross-talk
Filter	Prevents detection from cross-traffic or RF interference (i.e. keying radio transmitter)
Sensitivity	10 levels, 0-9
ASB (Automatic Sensitivity Boost)	Increases sensitivity after initial detection to prevent dropout due to high bed vehicles

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