ULTRA D-TEK™
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
- Loop fail output
- Frequency counter
- Remote reset
- Fail safe Operation

APPLICATIONS

The Ultra D-TEK was designed to be plug-in compatible with Elite's OmniControl™ board operators such as the SL3000 and CSW200. The Ultra D-TEK is now compatible with the Viking Loop Detector Rack.

The Ultra D-TEK is a cost effective, reliable and easy to set up vehicle detection solution that may be used in the Center, Safety and Exit slots on the operator control board. 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.

EMX INDUSTRIES, INC.
4564 Johnston Parkway
Cleveland, Ohio 44128

Telephone:
1-800-426-9912
216-518-9888

Fax: 216-518-9884
WEB: http://www.emxinc.com
Email: salessupport@emxinc.com
Technical Support: technical@emxinc.com

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 D-TEK

ORDERING INFORMATION

ULTRA D-TEK
Plug-in compatible with the OmniControl™ and other Elite "A ELD" enabled controllers. **

PR-XX
EMX Lite Preformed Loop XX =size

LD-6P
6 position pluggable screw terminal adaptor for OmniControl™ loop connections.

We accept Visa, MasterCard, American Express card orders and company purchase orders with approved credit.

**OmniControl™ and A ELD are registered to Elite Access Systems Inc. and The Chamberlain Group Inc.

ULTRA D-TEK™

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 ULTRAMETERTM. This condition may be avoided by maintaining a minimum of 5 kHz separation in multi-loop applications.

Technical Data

Power supply	9-30 VDC (reverse polarity protected)
Current draw	18 mA max.
Dimensions	L= 3.0in (76mm) W= 0.9in (22mm) H= 2.75in (70mm)
Weight	0.15 lbs. (68g)
Loop Inductance	20…2000µH (Q factor $\geq$ 5)
Environmental tracking	Automatic Compensation
Operating environment	-40° C…82° C (-40°F…180° F) 0…95% relative humidity
Housing material	PVC (Green)
Connection	10 Pin Female
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
Loop Output	Low on Detect
Power / loop fault indicator	Green LED
Detect / frequency count indicator	Red LED
External reset input	Low to reset
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