Ultrall D-TEK VEHICLE LOOP DETECTOR

Applications

The Ultra II D-TEK 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.





EMX Industries, Inc

4564 Johnston Parkway, Cleveland, Ohio 44128 P. 800 426 9912 F. 216 518 9884 Sales Inquiries: salessupport@emxinc.com Technical Support: technical@emxinc.com www.emxinc.com

Indicators & Controls

- Dip SwitcH 4 4 positions that control frequency, ASB (automatic sensitivity boost) and Pulse/Presence (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
- Ultrametertm 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 DTEK

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.





terminal for wiring (included)

LD-7P 7 position plug





130-10020316

Emx

PR-XX (light preformed loop with lighting protection)

Technical Data

12-30 VDC and 24 VAC (reverse polarity protected) 18 mA max. L= 3.0in (76mm) W= 0.9in (22mm) H= 2.75in (70mm) 0.15 lbs. (68g) 20...2000µH (Q factor > 5) Automatic Compensation -40° C...82° C (-40°F...180° F) 0...95% relative humidity PVC (Green) Plug-in 7 Position screw terminal to aid in wiring. Isolation transformer allows operation with poor guality loops 4 settings (low, med-low, med-hi, high) Loop circuitry protected by surge suppressors Indicates optimum sensitivity level, 0-9 Diagnostic aid Relay 1A@24VDC Common, Normally Open, Normally Closed Green LED Red LED

ULTRA II-MB

Red LED To aid in detector set up and prevention of cross-talk Allows the relay output to send either a pulse output or have constant presence. 10 levels 0-9

Increases sensitivity after initial detection to prevent dropout due to high bed vehicles

ASB (Automatic Sensitivity Boost) Ordering Information

Detect/Frequency Count Indicator

• ULTRA II D-TEK 12 – 24 V DC and 24 V AC. I = 18 mA max.

Sensitivity

Power Supply

Current Draw

Loop Inductance

Environmental Tracking

Operating Environment Housing Material

Loop Compensation

Loop Frequency

Surge Protection ULTRAMETER Display

Frequency Count

Pulse/Presence

Dimensions

Connection

Ouput

Weight

• PR-XX EMX Lite Preformed Loop XX =size

Power/Loop Fault Indicator

• LD-7P 7 position pluggable screw terminal adaptor to aid in wiring connections.

HAR-12-2 12 position wiring harness.

• ULTRA II-MB Ultra II Motherboard.

CE

WARRANTY EMX INC. the product described herein for a period of 2 years under normal use and service from the date of sale to our customer. The product will be free from defects in material and workmanship. This warranty does not cover ordinary wear and tear, abuse, misuse, overloading, altered products, or damage caused by the purchaser from incorrect connections, or lightning damage. There is no warranty of merchantability. There are no warranties expressed, implied or any affirmation of fact or representation which extend beyond the description set forth herein. EMX Inc. sole responsibility and liability, and purchaser's exclusive remedy shall be limited to the repair or replacement at EMX's option of a part or parts not so conforming to the warranty. In no event shall EMX Inc. be liable for damages of any nature, including incidental or consequential damages, including but, not limited to any damages resulting from non-conformity defect in material or workmanship. *Bev 2:1 07/09/08*

