

# ULTRA II

## VEHICLE LOOP DETECTOR

The ULTRA II is a compact, cost effective and reliable vehicle loop detector that is easy to set-up and install with a removable 7 pin screw terminal.

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.

# ULTRA II



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## Indicators & Controls

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



LD-7P



PR-XX

## Technical Data

<b>Power Supply</b>	12-24 VDC/AC
<b>Current Draw</b>	18 mA max.
<b>Dimensions</b>	L= 3.0in (76mm) W= 0.9in (22mm) H= 2.75in (70mm)
<b>Weight</b>	0.15 lbs. (68g)
<b>Loop Inductance</b>	20-2000 $\mu$ H (Q factor > 5)
<b>Environmental Tracking</b>	Automatic Compensation
<b>Operating Environment</b>	-40° C-82° C (-40°F-180° F) 0-95% relative humidity
<b>Housing Material</b>	PVC
<b>Connection</b>	7 position screw terminal to aid in wiring
<b>Loop Compensation</b>	Isolation transformer allows operation with poor quality loops
<b>Loop Frequency</b>	4 settings (low, med-low, med-hi, high)
<b>Surge Protection</b>	Loop circuitry protected by surge suppressors
<b>ULTRAMETER™ Display</b>	Indicates optimum sensitivity level, 0-9 diagnostic aid
<b>Output</b>	Relay 1A@24VDC Common, Normally Open, Normally Closed
<b>Power/Loop Fault Indicator</b>	Green LED
<b>Detect/Frequency Count Indicator</b>	Red LED
<b>Frequency Count</b>	To aid in detector set up and prevention of cross-talk
<b>Pulse/Presence</b>	Allows the relay output to send either a pulse output or have constant presence
<b>Sensitivity</b>	10 levels 0-9
<b>ASB (Automatic Sensitivity Boost)</b>	Increases sensitivity after initial detection to prevent dropout due to high bed vehicles

## Ordering Information

- ULTRA II Vehicle Loop Detector
- PR-XX EMX Lite Preformed Loop XX =size
- LD-7P 7 position plug-in screw terminal adaptor to aid in wiring connections



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. Rev 2.4 02/17/2020

