

# Ultra V-2 D-TEK

PLUG-IN STYLE VEHICLE LOOP DETECTOR

## Applications

The Ultra V-2 D-TEK™ vehicle loop detector combines small size with the full-featured functionality of the standard D-TEK product line in a plug-in module. The Ultra V-2 provides a solid-state output indicating vehicle presence. A second output can be used for presence, loop fault or pulse on entry /pulse on exit. Ultra V-2 provides options for automatic sensitivity boost (ASB), delay, and secondary output functions, fail-safe/fail-secure and infinite and normal (5 min.) presence.

The Ultra V-2 is compatible with a wide variety of gate operators including:

- Chamberlain/Elite SL3000,CSW200
- Advanced Access Automation CSL2000, CSW2000, RSW1000
- All-O-Matic SL100DC, SL 150DC, OH 200DC, SW 300DC, SW350DC
- Intelligate Systems IQ500, IQ5000
- Linear (OSCO) SL & SW Series with APeX controller
- SECOM Late model operators with 10 pin Molex connectors
- Viking Access Models L-3, F-1, T-21, H-10, B-12, Q-4

In addition to the compact size and enhanced functionality, the Ultra V is easily installed and has user-friendly features that simplify set-up, operation and troubleshooting. Sensitivity selection is simplified by the ULTRAMETER™ display that indicates the appropriate sensitivity setting for the vehicle positioned on the loop. The 10 sensitivity settings allow for finer adjustment of the detection level, while the 4 frequency selections provide greater flexibility in preventing crosstalk in multi-loop applications.

# D-TEK



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## Model Table

FEATURE	Ultra V-2
Presence output	•
Second output	•
Pulse entry/exit	•
ABS	•
Delay	•
Normal/infinite presence	•
Loop fault output	•

## Pin Assignments

PIN	Ultra V-2
1	Loop
2	Loop
3	Power +
4	No connection
5	No connection
6	Output B
7	Output B inverted
8	Presence output
9	Power +
10	Common



PR-XX (light preformed loop with lightning protection)



ULTRA V-2

## Technical Data

<b>Sensitivity</b>	10 levels, 0-9
<b>ULTRAMETER™ Display</b>	Indicates optimum sensitivity level, 0-9 Diagnostic aid
<b>Loop frequency</b>	4 settings (low, med-low, med-hi, high)
<b>Loop inductance</b>	20...2000μH (Q factor > 5)
<b>Grounded loop</b>	Isolation transformer allows operation with poor quality loops
<b>Automatic tuning</b>	Detector tunes to loop on power-up and following frequency count function
<b>Environmental tracking</b>	Automatic compensation
<b>Surge protection</b>	Loop circuitry protected by surge suppressors
<b>Detect output</b>	Solid-state
<b>Output B</b>	Solid state
<b>Output B inverted</b>	Solid state
<b>Power / loop fault indicator</b>	Green LED
<b>Detect / frequency count indicator</b>	Red LED
<b>ASB (Automatic Sensitivity Boost)</b>	Increases sensitivity after initial detection to prevent dropout due to high-bed vehicles
<b>Power</b>	12VDC...24VDC
<b>Operating Current</b>	15 mA
<b>Operating temperature</b>	-40°C...82°C (-40°F...180°F) 0...95% relative humidity
<b>Dimensions (L x W x H)</b>	3.0"(76mm) x 0.9"(22mm) x 2.75"(70mm)
<b>Weight</b>	0.15 lbs. (68 g)
<b>Connector</b>	10-pin female

## Ordering Information

- Ultra V-2 Vehicle Loop Detector, dual output
- PR-XX EMX Lite Pre-formed Loop (XX- specify size)

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 1.4 08/21/2018

