



ULTRALOOP® - ULT-PLG

PLUG-IN STYLE VEHICLE LOOP DETECTOR

Applications

The ULTRALOOP® plug-in vehicle loop detector combines small size with the full-featured functionality of the standard ULTRALOOP® product line in a plug-in module. The ULT-PLG provides a solid-state output indicating vehicle presence. A second output can be used for presence, loop fault or pulse on entry/exit. The detector provides options for automatic sensitivity boost (ASB), delay, secondary output functions, fail-safe/fail-secure, infinite/normal (5 min.) presence and the **NEW...DETECT-ON-STOP™** or (DOS®) feature. DOS® will allow detection only when a vehicle has come to a complete stop on the loop. This is a worldwide unique feature to EMX detectors. It is a major advantage if you want to ignore cross traffic in tight spaces.

The ULT-PLG 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.

ULT-PLG



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Model Table

| FEATURE | ULT-PLG |
|--------------------------|---------|
| Presence output | • |
| Second output | • |
| Pulse entry/exit | • |
| ABS | • |
| Detect-on-Stop | • |
| Normal/infinite presence | • |
| Loop fault output | • |

Connections

| PIN | ULT-PLG |
|-----|-------------------|
| 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 (lite preformed loop with lightning protection)



ULT-PLG

Technical Data

| | |
|---|---|
| Sensitivity | 10 levels, 0-9 |
| ULTRAMETER™ display | Indicates optimum sensitivity level, 0-9 diagnostic aid |
| Loop frequency | 4 settings (low, med-low, med-hi, high) |
| Loop inductance | 20...2000μH (Q factor > 5) |
| Grounded loop | Isolation transformer allows operation with poor quality loops |
| Automatic tuning | Detector tunes to loop on power-up and following frequency count function |
| Environmental tracking | Automatic compensation |
| Surge protection | Loop circuitry protected by surge suppressors |
| Detect output | Solid-state (open collector) |
| Output B | Solid-state (open collector) |
| Output B inverted | Solid-state (open collector) |
| Power / loop fault indicator | Green LED |
| Detect / frequency count indicator | Red LED |
| Detect-on-Stop | Requires vehicle to stop for a minimum of 1 second (1-2s typical) |
| ASB (Automatic Sensitivity Boost) | Increases sensitivity after initial detection to prevent dropout due to high-bed vehicles |
| Power | 12VDC...24VDC |
| Operating current | 15 mA |
| Operating temperature | -40°C...82°C (-40°F...180°F) 0...95% relative humidity |
| Dimensions (L x W x H) | 3.0"(76mm) x 0.9"(22mm) x 2.75"(70mm) |
| Weight | 0.15 lbs. (68 g) |
| Connector | 10-pin female |

Ordering Information

- ULT-PLG Ultra PLG Vehicle Loop Detector, dual output
- PR-XX EMX Lite Preformed 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 08/01/19

