



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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The ULT-PLG is compatible with a wide variety of gate operators including:

- Advanced Access Automation/FAAC CSL2000, CSW2000, RSW1000
- All-O-Matic SL100-DC
- Chamberlain/Elite SL3000,CSW200
- Intelligate Systems IQ500, IQ5000
- Linear (OSCO) with APeX controller
- PowerMaster operators with PowerMaster controllers
- Rotary Gate Systems SL 1000C, SL 1000I, SL 1000R
- SECOM late model operators with 10 pin Molex connectors
- Tymetal TYM 1000, TYM 2000
- Viking Access L-3, F-1, T-21, H-10, B-12, Q-4

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 1.2 06/04/15



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