



# ULTRALOOP - ULT-MVP

MULTI-VOLTAGE VEHICLE LOOP DETECTOR

## Applications

The ULTRALOOP™ multi-voltage vehicle loop detector combines small size with a 9VDC to 240VAC input range.

- ULTRAMETER™ sensitivity display - easy set-up and installation by selecting the correct sensitivity
- Crosstalk and RFI interference display - easy identification of interference problems
- Small size - fits into small operator housings, saving space (73 x 38 x 78mm)
- 10 sensitivity settings - gives the user the ability to select the best sensitivity level
- Low current draw - green product
- **NEW...DETECT-ON-STOP™** or (DOS®) feature 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.



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The ULT-MVP provides relay contact outputs indicating vehicle presence, and a second set of contacts that may be used for loop fault or pulse on entry /pulse on exit, or the new EMX feature, Detect-On-Stop™ (DOS®). The ULT-MVP features automatic sensitivity boost (ASB), delay, fail-safe/fail-secure and infinite or normal (5 min.) presence.

The detector 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 with 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-MVP



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## Model Table

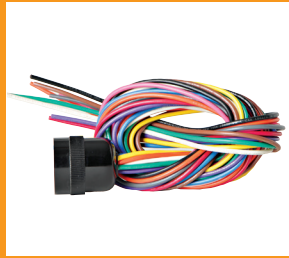
FEATURE	ULT-MVP
Presence output	•
Output B	•
Pulse entry/exit	•
Detect-On-Stop	•
ABS	•
Delay	•
Normal/infinite presence	•
Loop fault output	•

## Connections

DESCRIPTION	European Wiring	US Wiring
	ULT-MVP-E	ULT-MVP-U
Loop	7	7
Loop	8	8
Ground	9	4
Power	1	1
Power	2	2
Presence - Relay 1 NC contact	10	10
Presence - Relay 1 common contact	6	5
Presence - Relay 1 NO contact	5	6
Relay 2 NO contact	3	3
Relay 2 common contact	4	9
Relay 2 NC contact	11	11



PR-XX (lite preformed loop with lightning protection)



HAR-11



LD-11



ULT-MVP

## 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>Presence relay</b>	SPDT relay contacts (form C)
<b>Output B relay</b>	SPDT relay contacts (form C)
<b>Contact rating (resistive load)</b>	2A @ 30VDC, 0.5A @ 125VAC
<b>Power / loop fault indicator</b>	Green LED
<b>Detect / frequency count indicator</b>	Red LED
<b>Detect-On-Stop</b>	Requires vehicle to stop for a minimum of 1 second (1-2s typical)
<b>ASB (Automatic Sensitivity Boost)</b>	Increases sensitivity after initial detection to prevent dropout due to high-bed vehicles
<b>Power</b>	9...60 VDC (Max. 0.8 VA) 12...240 VAC (48...62Hz) (Max. 1.4 VA)
<b>Operating current</b>	20mA standby / 50mA detect
<b>Operating temperature</b>	-40°C...82°C (-40°F...180°F) 0...95% relative humidity
<b>Dimensions (L x W x H)</b>	73mm (2.9") x 38mm (1.2") x 78mm (3.1")
<b>Weight</b>	0.25 lbs. (113 g)
<b>Housing</b>	ABS plastic, IP30
<b>Connections</b>	Socket mount - 11 pin male (JEDEC B11-88)

## Ordering Information

- ULT-MVP-E Ultra MVP Multi-Voltage Vehicle Loop Detector, dual output AC/DC, EU wiring
- ULT-MVP-U Ultra MVP Multi-Voltage Vehicle Loop Detector, dual output AC/DC, US wiring
- HAR-11 3 foot 11 pin harness
- LD-11 11 pin socket base DIN rail mount
- PR-XX EMX Lite Preformed Loop (XX- specify size)

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