

Single Loop Detector ULTLDS240P

The Standard Single Channel Vehicle Detector is a reliable cost effective solution for detecting vehicles in a variety of Parking, Traffic and Domestic applications.

FEATURES

Compact size: The most Stable Loop Detector module in the industry, with all the features of a Standard Loop detector, plus several extended features.



Diagnostics Capability: This unit has simple LED indicated loop diagnostics.

Wide Supply Voltage: This unit operates from 12VDC to 270VAC

Detects Vehicles on power up: This unit remembers the loop characteristics, so on power up if there is a vehicle it will indicate a detection.

Detect Sensitivity: This feature allows the detect sensitivity to be adjusted from 0.020% to 0.500% inductance change for vehicle to be detected.

Filter functions: The filter function is used to inhibit false triggering in electrically noisy environments or assisting in flow control. The filter is a fixed 2 second delay timer for On detect and Off detect.

Multi-functional Second Relay Functions: This relay can be used for two functions: Pulse on detect or Presence. Other settings on request.

Loop Protection: The loop is protected with significant Lightning protection.

Super stable Loop detector: This oscillator is very stable with low distortion.

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TECHNICAL DATA

Self-tuning
range: 15uH - 1500uH

Sensitivity: High - 0.02% Δ L/L
Medium high - 0.05% Δ L/L
Medium low - 0.1% Δ L/L
Low - 0.5% Δ L/L

Frequency: Determined by Loop geometry
Four step adjustable
20KHz to 150KHz

Output Configuration: 2 Output relays
Relay 1 = Presence
Relay 2 = Pulse on detect,
Pulse off detect, Presence
Or Fail

Presence time: 1 hour for 3% Δ L/L
Permanent presence option

Factory settings:
1. Limited presence / permanent presence
2. Relay 2 Pulse On detect, Pulse Off detect, Presence, Fail
3. Sensitivity settings 0.02%, 0.05%, 0.10% and 0.20%
4. Filter timers 0 and 2 seconds

Indications:

	Red LED	Yellow LED	Red LED
Standard power up	Flash for 9 times	ON	OFF
Permanent presence power up	Flash for 3 times	ON	OFF
Loop active		ON	
Short circuit fault			Flash at 2 per second
Open circuit fault			Flash at 1 per second
Short circuit did exist			Blink 2 every 4 seconds
Open circuit did exist			Blink 1 every 4 seconds

Protection: Isolation couplers, Tranzorb, Gas discharge tube. MOVs on motor & mains supply

Power : 12VDC to 400VDC or 12VAC to 270VAC 45Hz to 60Hz
120mA @ 12VDC
80mA @ 24VDC
1,5VA max @ 230VAC

DIP Switch settings

PIN Number

Function

1	Frequency	1	12VDC to 400VDC or 12VAC to 265VAC (Live)
2	Frequency	2	12VDC to 400VDC or 12VAC to 265VAC (Neutral)
3	Sensitivity	3	Relay 2 (Normally Open)
4	Sensitivity	4	Relay 2 (Common)
5	ASB	5	Relay 1 (Normally Open)
6	Detect Filter	6	Relay 1 (Common)
7	Un-detect Filter	7	Loop input
8	Relay 2 functions	8	Loop input
9	Relay 2 functions	9	Mains earth
10	Presence time	10	Relay 1 (Normally Closed)
		11	Relay 2 (Normally Closed)

Output Relay1: 5A @ 230VAC
Change over contacts

Output Relay2: 5A @ 230VAC
Change over contacts

Operating Temperature Range : -40° to + 80°C
Circuit sealed against condensation

Mechanical Detail : ABS, Poly carbonate, Nylon

Dimension : 82mm high by 40mm wide 76mm deep

Mass : Approx 125g
Approx 165g with packing box

Mounting : Shelf or DIN-rail socket

Connector : Single rear mount
11-pin submagnal 86CP11

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