

Dual Channel Loop Detector ULTLDD440P

The Programmable Dual 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 Programmable Loop Detector module in the industry, with all the features of a Standard Loop detector, plus many extended features.

Diagnostics Capability: This unit has simple LED indicated loop diagnostics and a Program and Diagnostics functionality with a plug in DM400 display module.

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

Detects Vehicles on power up: This unit remembers both of 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 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. This timer can be adjusted with the program module DM400.

Multi-functional Second Relay Functions: This relay can be used for four functions: Presence, Pulse on detect, Pulse off detect or A-B logic. Other settings are available by programming the functions via the Display module DM400.

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	Output Relay1:	5A @ 230VAC Change over contacts
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	Output Relay2:	5A @ 230VAC Change over contacts
Frequency:	Determined by Loop geometry Four step adjustable 20KHz to 150KHz	Operating Temperature Range :	-40° to + 80°C Circuit sealed against condensation
Output Configuration:	2 Output relays Relays = Presence, Pulse on detect, Pulse off detect, A-B Logic	Mechanical Detail :	ABS, Poly carbonate, Nylon
Presence time:	1 hour for 3% Δ L/L Permanent presence option	Dimension :	82mm high by 40mm wide 76mm deep
Factory settings:	1. Limited presence / permanent presence 2. Operational functions Presence, Pulse On detect, Pulse Off detect, and A-B logic 3. Sensitivity settings 0.02%, 0.05%, 0.10% and 0.50% 4. Filter timers 0 and 2 seconds	Mass :	Approx 125g Approx 165g with packing box
Indications:		Mounting :	Shelf or DIN-rail socket
		Connector :	Single rear mount 11-pin submagnal 86CP11

	Red LED	Yellow LED	Yellow LED
Standard power up	Flash for 9 times	Flash for 9 times	Flash for 9 times
Permanent presence power up	Flash for 3 times	Flash for 3 times	Flash for 3 times
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 Ch1 Sensitivity	3	Channel 1 Loop input
4 Ch1 Sensitivity	4	Channel 1 Loop input
5 Ch2 Sensitivity	5	Channel 2 Loop input
6 Ch2 Sensitivity	6	Channel 2 Loop input
7 ASB	7	Relay 2 (Normally Open)
8 Presence time	8	Relay 2 (Normally Common)
9 Operation functions	9	Mains earth
10 Operation functions	10	Relay 1 (Normally Open)
	11	Relay 1 (Normally Common)

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