

COMBO LOGIC ULTCLS440T

The Combined Torque motor Barrier logic and Single Channel Vehicle Detector is a reliable cost effective solution to barrier electronics.

It is no longer necessary to wire up two separate units thus saving cost, wiring time and fault finding time.

FEATURES

Compact size: The most versatile combined Logic Detector module in the industry, with all the requirements of an access logic.

Diagnostics Capability: This unit has simple LED indicated loop diagnostics and full diagnostics with the use of an ULTITEC DM400 handheld display module. Seven Counters are also available.

Fully Programmable: This unit is fully programmable with a hand held Display module DM400. This prevents tampering.

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.

Sensitivity on detect: This feature allows the detect sensitivity to adjusted from 0.002% to 9.999% 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 programable delay timer on detect and off detect.

Multi-functional Second Relay Functions: This relay can be used for several functions: Pulse, Presence, Fail Ticket Vend Interlock, End Of Transaction, Solenoid, Barrier Open and Close in normally energized or de-energized states.

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

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



ULTITEC ELECTRONICS

TECHNICAL DATA

Self-tuning
range: 15uH - 1500uH

Output Relays: 16A @ 230VAC
Change over contacts

Sensitivity: High - 0.02% $\Delta L/L$
Medium high - 0.05% $\Delta L/L$
Medium low - 0.1% $\Delta L/L$
Low - 0.5% $\Delta L/L$

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

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

Mechanical Detail : ABS, Poly carbonate, Nylon

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

Output

Configuration: 2 Output relays
Relay 1 = Motor output
Relay 2 = EOT or TVI.

Mass : Approx 125g
Approx 165g with packing box

Presence time: 1 hour for 3% $\Delta L/L$
Permanent presence option

Mounting : Shelf or DIN-rail socket

Factory settings:
1. Limited presence / permanent presence
2. Roll back time 5 seconds / 2 seconds
3. Auto close 2 minutes / 1minute
4. Delay timers 0 seconds

Connector : Single rear mount
11-pin submagnal 86CP11

Indications:

	Red LED	Green 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
Auto mode	ON	ON	
Open mode	ON	OFF	
Close mode	ON	ON	
Pin 7 active		Very fast flash	
Pin 8 active	Very fast flash		
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 (Ticket vend interlock N/O)
4	Sensitivity	4	Relay 2 (Ticket Vend Interlock Common)
5	ASB	5	Barrier Motor Open 12VDC to 230VAC output
6	Filter	6	Ground supply for raise, lower & Loop inputs
7	Roll back time	7	Pin 7 input (Open non-memory input)
8	Auto close time	8	Pin 8 input (Open memory input)
9	Relay 2 mode	9	Mains earth & 12V/24VDC + output
10	Detector off delay	10	Barrier Motor Close 12VDC to 230VAC output
		11	Loop input

ULTITEC ELECTRONICS