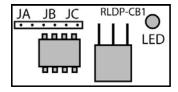


### **Double Pole Relay Control Board – TIMER1**

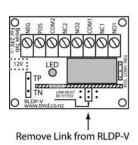


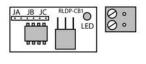
#### Features:

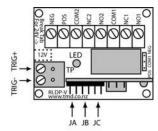
- Microprocessor control board plugs into RLDP-V double pole relay board to become multifunction timer.
- Compact size, modular design.
- Eight (8) versatile modes of operation
- Timeout: 1-900 secs, 1-180 mins, 1-18 hours.
- Rising and falling edge triggers.
- Simple programming method.
- Selectable 12V/24V DC operation.
- High quality screw connectors.
- LED indicator to show timing status.
- 1. Buffered Input.
- 2. Flip Flop.
- 3. One Shot.
- 4. One Shot (retriggerable).
- 5. Pulse Extender.
- 6. Delay Start.
- 7. Delay Start (retriggerable).
- 8. Stand-Off (door open too long).

### 1. Hardware Setup

- a) Plug the RLDP-CB1 control board into a Livewire RLDP-V double pole relay board as shown (remove the link on the RLDP-V first).
- b) Fit the (supplied) 2-way screw connector over trigger inputs TRIG+ / TRIG-.
- c) Set the voltage on the RLDP-V (default is 12V or break off the voltage tab to convert to 24V operation).
- d) Set the COM1 link on the RLDP-V if required.







RLDP-CB1 with 2-Pin Screw Connector for TRIG+ /TRIG-

RLDP-CB1 and Connector Installed on RLDP-V

# 2. Set the Timeout

Programming the RLDP-CB1 is simple. To set the TIMEOUT (T):

- a) Remove all Jumpers and any connections to TP (TRIG+) and TN (TRIG-).
- b) Apply power.
- c) Wait until the LED turns ON, then briefly connect TRIG+ to TRIG- until the LED starts flashing (you have 3 secs to do this). Hint: Remove the 2-way screw connector and short the two pins quickly with a screwdriver. You are now ready to set the TIMEOUT.
- d) Put on Jumper JA, JB or JC according to the TIMEOUT required see tables (you have 10 secs to do this).
- e) Wait for Timeout Programming Period (TPP). Hint: Each flash of the LED is 1 sec so you can easily count LED flashes.
- f) Remove Jumper JA, JB or JC -> TIMEOUT has been set.

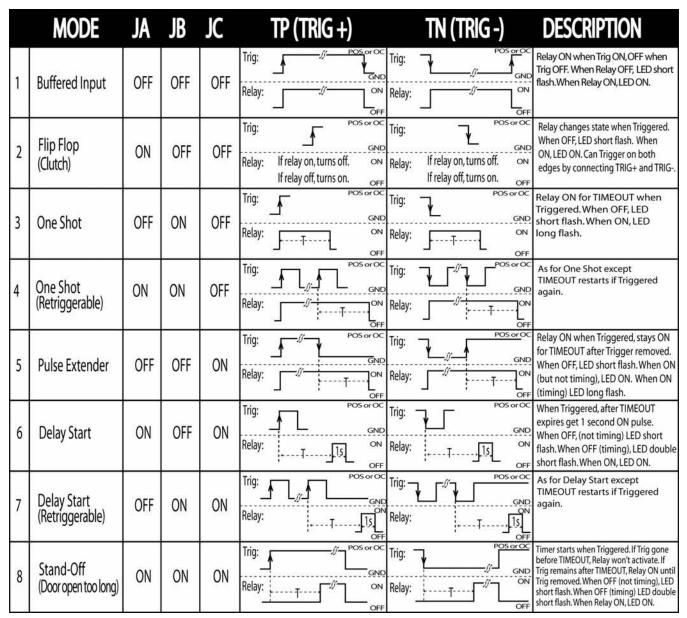
Jumper	Max TIMEOUT	Units	Jumper ON for:	=>	TIMEOUT:
JA	900	Secs	1 Sec	=>	1 Sec
JB	180	Mins	5 Sec	=>	1 Min
JC	18	Hours	5 Sec	=>	30 Min

# Examples:

30 secs => JA for 30 secs 5 mins => JB for 25 secs 15 mins => JB for 75 secs 1 hour => JC for 10 secs 3 hours => JC for 30 secs

TPP (Secs)	JA	JB	JC		
5	5s	1m	30m		
10	10s	2m	1h		
15	15s	3m	1h30m		
20	<b>20</b> 20s		2h		
25	<b>25</b> 25s 5ı		2h30m		
30	30s	6m	3h		
35	<b>35</b> 35s		3h30m		
40	40s	8m	4h		
45	45s	9m	4h30m		
50	50s	10m	5h		
55	55s	11m	5h30m		
60	1m	12m	6h		
65	1m5s	13m	6h30m		
70	1m10s	14m	7h		
75	1m15s	15m	7h30m		
80	1m20s	16m	8h		
85	1m25s	17m	8h30m		
90	1m30s	18m	9h		
Common Timeouts, Jumper					

Common Timeouts, Jumper settings & Timer Programming Periods.



### **Trigger Inputs**

Trigger Inputs are active low (see table). Note that <u>dual edge triggering</u> can be achieved by connecting the TRIG- and TRIG+ inputs together.

	Trigger using TRIG+	Trigger using TRIG-
Trigger from dry contact or manual switch input.	TRIG-	TRIG-
Trigger from +V (5V -> VPOS) switched to GND.	TRIG-	TRIG+ O O

### **Specifications**

	Parameter	Min	Тур	Max	Units
1	Input Voltage	10.0	12.0	28.0	VDC
2	Current (12V nominal, Relay OFF)	4.0 @ 10V	5.0 @ 12V	9.0 @ 17V	mA
3	Current (12V nominal, Relay ON)	12.0 @ 10V	15.0 @ 12V	23.0 @ 17V	mA
4	Current (24V nominal, Relay OFF)	9.0 @ 17V	13.0 @ 24V	16.0 @ 28V	mA
5	Current (24V nominal, Relay ON)	16.0 @ 17V	25.0 @ 24V	29.0 @ 28V	mA
6	Timing Accuracy		+/-2%		
7	Debounce time on Trigger inputs	40	50	60	ms
8	Operating Temperature	-20	25	65	deg C
9	Dimensions			35x19x12h	mm

Security Wholesale 2001 Ltd

CNR Sims & Great South Road Penrose, Auckland Postal: P.O Box 12-395 Penrose, Auckland.

Ph: (09) 580 1147, Fax: (09) 580 1159.

Web: <a href="www.swl.co.nz">www.swl.co.nz</a> Email: <a href="mailto:trade@swl.co.nz">trade@swl.co.nz</a>

#### Warranty and Disclaimer

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