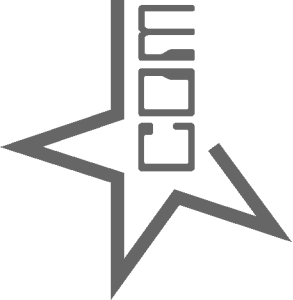
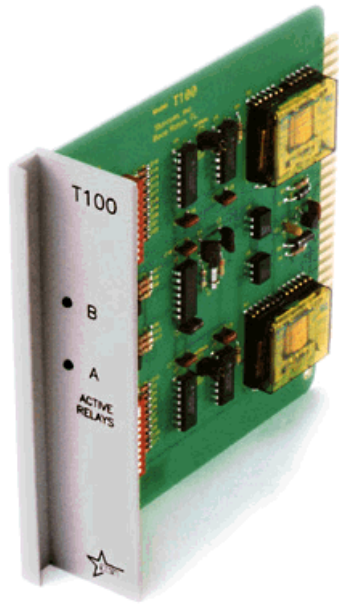


Starcom Incorporated



T100

DUAL TIMER



Description

Each T100 dual timer has 2 discrete timer circuits on a 56-pin, type 10 plug-in card. The T100 will operate from a 24 or 48vdc power supply. The trigger input requires 10 to 48vdc.

When a trigger voltage is applied to the T100, the timing sequence begins. After the preset time has elapsed, the relay activates. The relay remains active until the trigger source is removed, and then returns to its idle state. If the trigger source is removed before the preset time is reached, that timer is reset and the relay never operates. 2 LED's on the front panel indicate if a relay is active or idle.

Each timer has a delay range of 1 to 1023 seconds (17 minutes 3 seconds). The delay time is set by a 10 position dip switch.

Connections

Power

- 1- Connect positive ground to pin 31.
- 2- Do one of the following:
 - a- Connect -24vdc to pin 15 for 24 volt operation.
 - b- Connect -48vdc to pin 23 for 48 volt operation.

Triggers

The A and B trigger inputs will operate from 10 to 48vdc. They are isolated from each other and from the power for the T100. They do not have to be the same voltage or polarity.

Timer A

Do one of the following:

- 1- For a positive trigger, connect the input to pin 25. Connect the negative reference for the trigger to pin 7.
- 2- For a negative trigger, connect the input to pin 7. Connect the positive reference for the trigger to pin 25.

Timer B

Do one of the following:

- 1- For a positive trigger, connect the input to pin 33. Connect the negative reference for the trigger to pin 49.
- 2- For a negative trigger, connect the input to pin 49. Connect the positive reference for the trigger to pin 33.

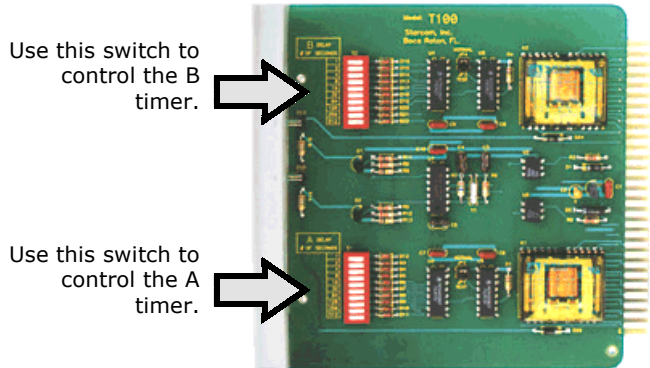
Outputs

Each timer output is a 6 pole, double throw relay with dry contacts (6 form C contacts). Refer to the tables shown and the block diagram for the pin-outs. Do not exceed the 2 amp contact rating.

T100 RELAY PIN-OUT				
CIRCUIT	CONTACT SET	COMMON	NORMALLY OPEN	NORMALLY CLOSED
A	1	3	1	5
	2	4	2	6
	3	10	8	12
	4	11	13	9
	5	16	18	14
	6	19	21	17
B	1	40	44	42
	2	39	37	41
	3	45	43	47
	4	46	50	48
	5	54	56	52
	6	53	55	51

Delay time

Printed next to each switch is the amount of delay in seconds it represents. If a switch is on, the time is added to the total time for that circuit. If a switch is off (open) no time is added to the delay.



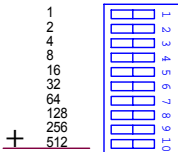
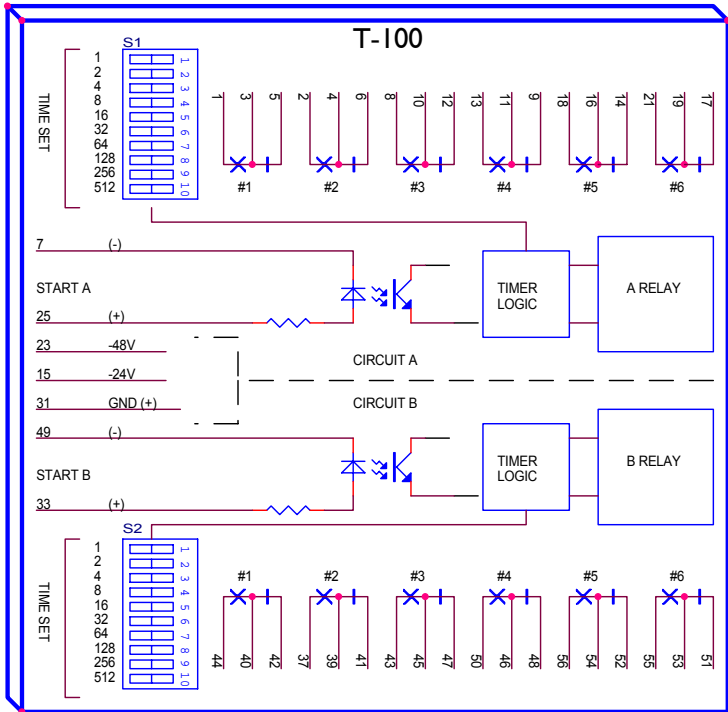
Specifications

Size Type 10 plug in card
 Weight 5 oz
 Operating voltage 24 or 48vdc
 Trigger voltage 10 to 48vdc
 Power consumption:

T100

Idle	10mA
1 circuit active	32mA
2 circuits active	54mA
Delay time	1 to 1023 seconds in 1 second intervals
Accuracy	Better than 1%
Output	6 form C contacts per circuit
Contact rating (resistive)	
28vdc	2 amps
125vac 60hz	1/2 amp

Block diagram



1023 SECONDS TOTAL TIME.

DELAY OPERATE IS THE STANDARD CONFIGURATION.
 START REQUIRES CONTINUOUS INPUT.
 ANY COMBINATION OF SWITCH SETTINGS MAY BE
 USED FOR THE DELAY TIME.

EXAMPLE: SW4 (8 SEC) AND SW7 (64 SEC) ARE SELECTED ON CIRCUIT B.
 TOTAL DELAY IS 8 + 64 = 72 SECONDS FOR CIRCUIT B.

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