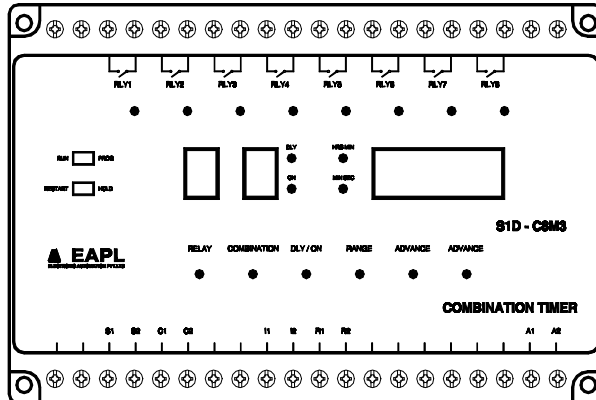
 कर्मण्ये वा श्री संस्थितिः	OPERATING INSTRUCTIONS Model : S1DC8-M3	OPI No. :OPI/042
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Front panel layout



Terminal Details

A1, A2: Power
S1, S2: External Start
I1, I2: Inhibit
C1, C2: Single Cycle or Cyclic
Function Implementation
Short: Single Cycle function
Open: Cyclic function
RLY1 to RLY8: Normally open relay
output
R1-R2 : Reset

S1DC8-M3 is a micro-controller based 8 channel combination timer where in you can program the outputs to switch ON / OFF simultaneously or sequentially. It's user friendly programming makes it versatile for a host of Industrial applications. Supply voltage is 85V to 270 V AC.

Special Features:

Hold: When the slide switch on the front panel is kept in the HOLD position, the timing data is retained in case of power failure. Upon resumption of power the timing continues from the point where it had stopped.

Restart: When the slide switch is kept in the restart position, the timer resets in case of power failure and starts from beginning upon power resumption.

External Start: By shorting terminals S1 & S2 for a minimum period of 150 mSecs (potential free shorting) or by keeping S1 & S2 permanently shorted, the timing sequence is initiated.

Single cycle operation: By keeping the terminals C1 & C2 shorted (potential free) on the front panel, the switching of output is executed for one cycle and stops.

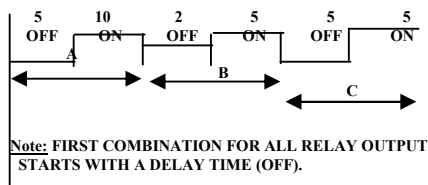
Cyclic operation: By keeping the terminals C1 & C2 on the front panel open, the switching of outputs keeps repeating after the end of each cycle.

Inhibit: By shorting terminals I1 and I2 (potential free) on the front panel, the status of relay output (ON or OFF) is maintained irrespective of the programmed timing. By removing the short, the programmed timing continues and relay responds as per the pre-programmed timings.

How to program the timer:

- 1.Keep the PROG / RUN slide switch in the "PROG" position. Apply rated voltage across A1 and A2.
- 2.Press "RELAY" button to select desired relay output (Relay1 to Relay 8).
- 3.Press "COMBINATION" button to select the desired combination 1 to 8 for a particular relay output Relay 1 to 8
- 4.Press "DLY / ON" button so as to select the "DLY" time for selected combination.
- 5.Press the "RANGE" button, to select the desired time range (Min - Sec or Hrs. - Min) for the selected combination.
- 6.Press DLY/ON button again, so as to select ON time duration for the selected combination. Repeat step 5 to select desired time range. Use "ADV" button to increment the DLY / ON time.
- 7.Repeat steps 2 to 6, to program other combination for Relay 1.
- 8.After completing programming for Relay 1, repeat steps 2 to 7 to program other relays (2 to 8).

A Sample Program is as given below:



RELAY1	(A) COMBINATION1	(B) COMBINATION2	(C) COMBINATION3
OFF	5 Sec.	17 Sec.	27 Sec.
ON	15 Sec.	22 Sec.	32 Sec.

After programming the timer, keep the RUN/PROG slide switch in the "RUN" position. Now the unit is ready for operation.

How to initiate the sequence:

By shorting (potential free) S1 and S2 terminals on the front panel for a minimum of 150 m Secs, the timing sequence is initiated. The output relay switches ON and OFF as per programmed combination.

To reset all the programmed setting:

ⓉShort R1-R2 and slide the Run/Prog switch from Run mode to Program mode. All programs gets reset to zero.

ⓉRemove R1-R2 and program for new settings.

Caution:

- 1.Potential free contacts should be used to short terminals C1 & C2, I1 & I2, S1 & S2. Applying power to these points will damage the timer permanently.
- 2.Programming is not possible if terminals I1 & I2 are shorted.
- 3.Ensure R1-R2 is open before programming for new setting.