Micro-Series Sequential Timers
ST8-M1

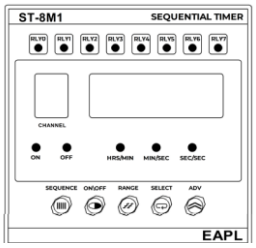
Features

- Hold /Restart - User Selectable.
- Program of the first relay can be copied to all remaining relays or individually programmed for each relay.
- LED indications to select DELAY/ON time range during programming and relay status during operations.
- User Selection for single/repeat cycle.
- Cascading of units to achieve higher outputs.

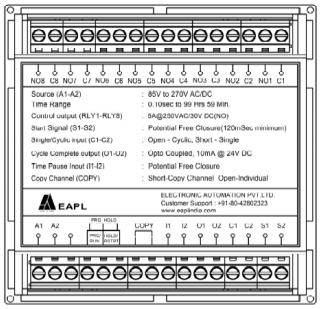
Ordering Information

Models	Function	Source Voltage	Time Selection	Output
ST8-M1	Sequential Switching 8 channels	85V to 270V AC / DC	0.1Secs to 99Hrs 59Mins	1 C/ O Rated for 5A @ 250 VAC / 30VDC(NO)

Front View ST8-M1



Rear View ST8-M1



Over-all Dimension

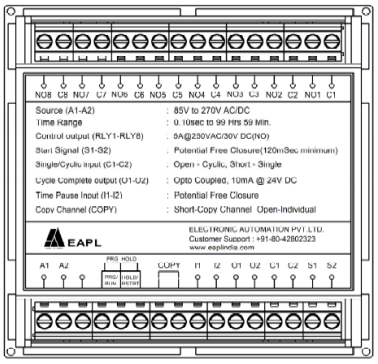
Models	Dimension Details in mm		
	W	H	D
ST8-M1	96	96	53

Specifications

Parameters Models	ST8-M1
Function	Sequential timer with 8 channel.
Rated supply Voltage	85V TO 270V AC/DC
Rated Frequency	50 / 60Hz ± 5%
Power consumption	AC Approx. 10VA DC Approx. 5W
Control output	8(RLY0 to RLY7) 1 C/ O Rated for 5A @ 250 VAC / 30VDC(NO)
Start Signal (S1,S2)	Potential free closure for a minimum of 120mSec.
Conduction time (O1,O2)	>120m Sec.
On time range	0.1 to 1 S/M/H for each channel
Off time range	0.1 to 1 S/M/H for each channel
Setting accuracy	± 0.1 % max. w.r.t full scale ± 50mSec
Repeat Accuracy	± 0.05 % max. ± 50mSec
Recovery Time	2 Sec minimum
Variation due to voltage change	± 1% max. ± 50mSec
Variation due to temperature change	± 2% max. ± 50mSec
Variation due to frequency change	± 1% max. ± 50mSec
Ambient temperature	Operation: -10^0C to $+55^0$C Storage : -25^0C to $+80^0$C
Humidity	MAX 85% RH @ 40^0C
Electrical life (under full load)	10^5operations minimum
Service life (under no load)	10^6operations minimum
Rated frequency of operation	1800 ±5% operations per hour
Insulation resistance	>100M ohms @ 500V DC
Dielectric strength	01) 2.5KV AC, 50Hz for 1 minute.(Between current carrying & non-current carrying parts) 02) 1.5KV AC, 50Hz for 1 minute.(Between contacts & control circuit) 03) 750 V AC, 50Hz for 1 minute.(Between non-continuous relay contacts)
Electrical connection	Screw type PCB connector
Dimension (W x H x D)	96 x 96 x 53 mm

Connection and Terminal Details

ST8-M1



A1,A2 : Source
S1-S2 : Start signal for a minimum of 120mS.
C1-C2 : SHORT – Single cycle operation(timer stops at the end of one cycle)
OPEN – Cyclic operation (timer continues to operate).
O1-O2 : Cycle Complete Output. This output is available after completion of 1 cycle in single cycle operation mode (C1-C2 shorted).
I1-I2 : Time Pause Input. By shorting these terminals timing is temporarily stopped and relay status is maintained, again by opening these terminals timing continues.
COPY : Short – First channel program shall be copied to all 8 channels during program mode.
OPEN – Individual channel shall be programmed with different values.
HOLD MODE: Short for Hold mode. During Hold mode, the timing starts from the time where it stopped during power failure.
RESTART MODE: Open for Restart mode After the resumption of interrupted power, operation starts from the Sequence 0 or waits for the start signal if C1–C2 is Shorted.

Cascading Connection