

## Product Features



- Suitable for screw mounting(except ST4-M1).
- 7 segment display indication for channel and timing operation (except ST-4M1).
- User friendly programming for ON/OFF time selection independently (except ST-4M1).
- Hold /Restart feature is available during power failure, Over voltage protection(except ST-4M1).
- ST-6M1 / ST-10M2 / ST-10M1 : pulse start signal.
- ST-15M2 / ST-4M1 : continuous start signal.
- S1D-C8M3 : Comprises of 8 Relays and each relay can be programmed for maximum of 8 switchings in a cycle.
- Potential free (Zero volts) continuous start signal and continuous signal from differential pressure switch is mandatory for operating the timer.

## Specifications

Function	ST4-M1	ST-15M2
Function	Sequential timer with 4 channels.	Sequential timer with 15 channels.
Rated supply voltage	240V AC	85Vto 270V AC
Operating voltage range	± 10% of the rated voltage	N.A
Rated frequency	50Hz ± 5%	50 / 60Hz ± 5%
Power consumption	AC approx.20VA / 4W,	AC approx.10VA / 2W
Control relay output	4 O/P'S ( 5A @ 250V AC/28 VDC resistive)	15 (OP1 to OP15)TRIAC OUTPUT, 500mA @ 250V AC resistive
Start Signal (S1, S2)	Potential free closure signal (continuous)	Potential free closure signal (continuous)
Differential pressure signal (DP1, DP2)	N.A	Potential free closure signal (continuous)
Time range	On time 0.1 to 1 S/M/H for each channel Off time 0.1 to 1 S/M/H for each channel	On time 0.01sec to 99hrs 59min for each channel Off time 0.01sec to 99hrs 59min for each channel
Setting accuracy	± 10% max w.r.t full scale ± 100msec	± 0.2% max w.r.t setting ± 20msec
Repeat accuracy	± 1% max. ± 100msec	± 0.3% max w.r.t ± 20msec
Recovery time	1sec minimum	2sec minimum
Variation due to voltage change	± 2% max ± 100msec	± 1% max ± 50msec
Variation due to temp. change	± 5% max ± 100msec	± 2% max ± 50msec
Variation due to frequency change	± 2% max ± 100msec	± 1% max ± 50msec
Ambient temperature	Operation: -10°C to +55°C, Storage: -25°C to +80°C	
Humidity	Max. 85% RH @ 40°C	
Service life (under no load)	N.A	10 <sup>6</sup> operation minimum
Electrical life (under full load)	10 <sup>6</sup> operation minimum	
Rated frequency of operation	1800 ± 5% operations per hour maximum	
Insulation resistance	> 100M ohms @ 500V DC	
Di-electrical strength	2.5KV AC, 50Hz for 1minute. (Between current carrying and non-current carrying parts). 1.5KV AC, 50Hz for 1minute. (Between contacts and control circuit). 750V AC, 50Hz for 1minute. (Between non-continuous contacts of the relay).	N.A
Electrical connection	Screw type terminals with self lifting clamps	
Dimension (over-all)	110 x 86 x 68mm (L x W x D)	200 x 130 x 45mm (W x H x D)
Enclosure (series)	K series	S1D series