S-Series



Product Features

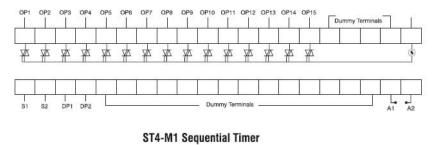
- Suitable for screw mounting(except ST4-M1).
- 7 segment display indication for channel and timing operation (except ST-4M1).
- User friendly programming for ON/OFF time selection independently (except ST-4M1).
- Hold /Restart feature is available during power failure, Over voltage protection(except 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.
- Application: Bag filters, Dust collectors, Water treatment plants etc.

Specifications

Function	ST4-M1	ST-15M2	
Rated supply voltage	240V AC	85Vto 270V AC	
Operating voltage range	21.6V DC to 26.4V DC	85Vto 270V AC	
Differential pressure signal (DP1, DP2)		85Vto 270V AC	
Rated frequency	50Hz ±5%	65V10 270V AC	
		AC	
Power consumption	AC approx.20VA / 4W,	AC approx.10VA / 2W	
No. of output	4 - Riy1 to Riy4,	15 - OP1 to OP15	
Control relay output	NO relay contacts rated for 5A @ 250V AC / 28V DC resistive load Triac outputs rated for 500mA@250V AC resistive l		
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 timec 0.1sec to 1hrc00min Off timec 0.1sec to 1hrc00min	On timec 0.01secs to 99hrs 59min. Off timec 0.01secs to 99hrs 59min	
Range selection	Range Minimum Maximum S/S 0.1s 1secc nn M/S 0.1m 1min nn H/M 0.1hr 1hr n	Range Minimum Maximum nn S/S 00s c 01ms 59s c 99ms nn M/S 00m c 01s 59m c 59s nn H/M 00h c 01m 99h c 59m n N 59m c 59s	
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, Storagec -25°C to 80°C		
Humidity	Max. 85% RH @ 400C		
Service life (under no load)	10 ⁶ operation minimum N.A		
Electrical life (under full load)	10 ⁵ operation minimum		
Rated frequency of operation	1800 ±5% operations per hour maximum		
Insulation resistance	>100Mohms @ 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). 750VAC, 50Hz for 1minute. (Between non-continuous contacts of the relay).		
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)	

Connections

ST15-M2 Sequential Timer

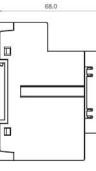




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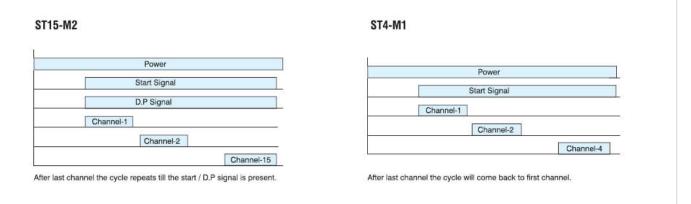
86.0





Note: Please refer page no.18 for ST15-M2 dimension

Timing Diagram

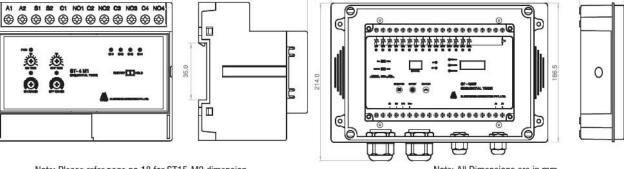


: Source A1 & A2 S1 & S2 : Start signal - continuous (Potential free) DP1 & DP2 : Differential pressure Signal - continuous (Potential free) for ST15-M2 OP1 to OP15 : Control Output for ST15-M2 : Common input terminal for all triacs 6 (for ST15-M2) C1, NO1 C2, NO2 : Relay terminals (for ST4-M1) C3, NO3 C4, NO4

82.0

ST15-M2 (IP)

291.0



Note: All Dimensions are in mm.

Hints On Correct Use

Output from triac is possible only for AC supply.

Caution

- Do not apply any voltage across S1 & S2, DP1 & DP2.
 Do not shift HOLD / RESTART slide switch when the timer is in operation.
 Application of voltage other than the specified one, will permanently damage the timer.
 Use 2.5mm2 U-type lugs with sleeve.