

A-Series 22.5mm Timers A1DE-X / A1DCS-X / A1DN-X / A1DA / A1D-S / A1DH-1

Features

- · Suitable for Din-Rail mounting.
- Terminal block safety protective cover.
- LED indication for timing in progress.





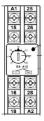


Ordering Information

Models	Function	Source Voltage	Time Selection	Output
A1DE-X	Interval		0.3Secs to 30Mins	2 C/o Relay
A1DCS-X	Cyclic Equal Off- On	24V AC to 240V AC, 24V DC to 220V DC	0.6Secs to 60Mins	
A1DN-X	Auxiliary Relay		20m Sec	
A1DA ¹	Signal-Off Delay	110V AC / 240V AC	0.3Secs to 30Mins	1 C/o Relay
A1D-S	Star Delta	110V AC / 240V AC / 415V AC	0.6Secs to 60Secs ##TD 40ms / 100ms	1 C/o (C-NO)Star 1 C/o (C-NO)Delta
A1DH-1	Power-Off Delay	240V AC**	18Secs to 180Secs	2 C/o Relay ***

^{**:} Minimum 2secs of aux. supply has to be applied for each cycle, else timer may malfunction . ***:Contact Rating: 0.5 A @ 250 V AC / 28V DC Resistive .

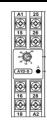
Front View A1DE-X A1DCS-X A1DH-1 A1DN-X A1DA A1D-S













Side View A1DE-X A1DCS-X A1DN-X A1DA A1D-S A1DH-1













Over-all Dimension

	Dimension Details in mm			
Models	W	Н	D	
A1DE-X/A1DCS-X/A1DN-X/A1DA/A1D-S/A1DH-1	22.5	75	103.8	

^{##:} TD - Transfer Delay time is the time between closure of star function and start of delta.

^{1:} Energizes the timer relay with a free from potential signal Command and on removal starts the timing.

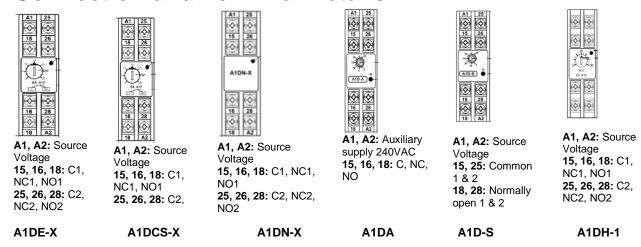


■ Specifications

Interval timer Cyclic timer Auxiliary relay delay timer timer with start times k transfer time settable delay timer timer with start delay timer timer with start times k transfer time settable delay timer timer with start delay timer timer with start times k transfer time settable delay timer timer with start times k transfer time settable delay timer timer with start times k transfer times k transfer time settable delay timer timer with start times k transfer times k transfer times with start times k transfer times k transfer times with start delay timer timer with start times k transfer times k transfer times with start times w	VAC/28VE esistive		
Operating voltage range	o rated for @ VAC/28VE ssistive		
Rated Frequency 50 / 60Hz ± 5% 50Hz ± 5%	o rated for @ VAC/28VE ssistive		
Allowable ripple (for DC supply) 3% maximum -	@ VAC/28VE esistive I		
AC approx.5VA DC approx.3W	@ VAC/28VE esistive I		
Control output 2 c/o rated for 5A @ 250VAC/28VDC resistive 5A @ 250VAC / 250VAC / 250VAC / 250VAC / 28V DC 250VA	@ VAC/28VE esistive I		
2 c/o rated for 5A @ 250VAC/28VDC resistive 5A @ 250VAC/28VDC 250VAC/28VDC	@ VAC/28VE esistive I		
0.3Sec to 30Min 0.6Sec to 60Min 20mSec Max 0.3Sec to 30Min 18Sec 1	c to 180Sec		
Range selection 3Sec,30Sec, 3Min,30Min - 3Sec,30Sec,3Min - 3Sec,30Sec,3Min - 3Sec,30Sec,3Min - 3Sec,30Sec,3Min - 40mSec,100m - - - - - - - - -			
1 + 10% may writing scale + 100m			
100mSec	± 10% max. w.r.t full scale ± 100mSec		
Repeat accuracy ± 1% max. ± 100mSec - ± 1% max. ± 100mSec ± 2% 100mSec	% max. ± mSec		
Recovery time 100mSec minimum 150mSec minimum -			
Variation due to voltage change ± 2% max. ± 100mSec - ± 2% max. ± 100mSec	± 2% max. ± 100mSec		
Variation due to temperature change ± 5% max. ± 100mSec - ± 5% max. ± 100mSec			
Variation due to frequency change ± 2% max. ± 100mSec - ± 2% max. ± 100mSec	± 2% max. ± 100mSec		
Ambient temperature Operation: -10° C to +55° C Storage : -25° C to +80° C	⊃ +80° C		
Humidity MAX 85% RH @ 40°C			
Electrical life 10 ⁵ operations minimum			
Mechanical life 10 ⁶ operations minimum			
Rated frequency of operation 1800 ± 5% operations per hour max			
Insulation resistance			
(rms), 50Hz for 1minute. (Between input terminals & enclosure) 02) 1.5KV AC (rms), 50Hz for 1minute. (Between input terminals & enclosure) 03) 1.5KV AC (rms), 50Hz for 1minute. (Between relay contact terminals & enclosure) 03) 1.5KV AC (rms), 50Hz for 1minute. (Between input terminals & enclosure) 03) 1.5KV AC (rms), 50Hz for 1minute. (Between input terminals & enclosure) 03) 1.5KV AC (rms), 50Hz for 1minute. (Between input terminals & enclosure) 03) 1.5KV AC (rms), 50Hz for 10-30sec. (Between pole to pole of the relay) 05) 1.0KV AC (rms), 50Hz for 10-30sec. (Between open contacts of the relay) (Between open contacts of the relay)	te. (Between nt carrying a urrent ing parts) .5KV AC, for 1 te. (Between tots & controt) IKV AC, z for 1 ute. ween non- inuous act of the		
Electrical connection Screw type terminals with self lifting clamps			
Dimension (W x H x D) 22.5x 75x 103.8mm (W x H x D)			



Connection and Terminal Details



Note: • For Signal off delay timer Model A1DA start signal should be potential free closure for a minimum of 150m Sec.

• For Power off delay timer Model A1DH-1 minimum energisation time will be 2Sec.