# A-Series 22.5mm Timers A1DM-X

#### **Features**

- A1DM-X is a Multifunction Timer with A, B, C and D modes of Operation
- Mode A: ON Delay
- Mode B: Interval
- Mode C: ON Delay Cyclic
- Mode D: Interval Cyclic
- Suitable for Din Rail /Screw Mounting.
- · LED indication for timing in progress.
- Terminal block safety protective cover.



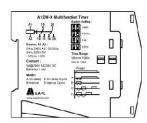
# **Ordering Information**

Models	Function	Source Voltage	Output Voltage
A1DM-X	Multi Function Limar	24V-240V AC 24V-220V DC	2 c/o 5A

## Front View A1DM-X



#### Side View A1DM-X



# **Over-all Dimension**

	Dimension Details in mm		
Models	W	Н	D
A1DM-X	22.5	75	103.8



## **■** Specifications

Autlifunction timer A. ON delay B: Interval C. ON delay Cocine D: Interval cyclic Rated supply Voltage 24 to 240V AC & 24 to 220V DC Operating voltage range -10% to +10% of rated voltage Rated Frequency 50/60 Hz ± 5% Power consumption AC approx.5VA DC approx.3W Control output 2 c/o rated for 5A @ 250VAC/28VDC resistive load Time range 0.1MIN to 10Hrs Range selection 0.1Min to 10 Min 1Hr to 10Hrs Setting accuracy ± 10% max. w.r.t full scale ± 100mSec Repeat accuracy ± 1% max. ± 100mSec Repeat accuracy ± 1% max. ± 100mSec Recovery time 150mSec minimum Variation due to voltage change Variation due to frequency change Variation due to temperature thange Variation due to temperature Ambient temperature Operation: -10°C to +55°C Storage: -25°C to +80°C WAX 95% RH @ 40°C Service life (under no load) 10° operations minimum Rated frequency of operation Insulation resistance 1015 NSW AC (rms.) 50Hz for 1 minute. (Between INPUT terminals & enclosure) 02) 1.5KV AC (rms.) 50Hz for 1 minute. (Between INPUT terminals & enclosure) 03) 1.5KV AC (rms.) 50Hz for 1 minute. (Between INPUT terminals & enclosure) 03) 1.5KV AC (rms.) 50Hz for 1 minute. (Between INPUT terminals & enclosure) 03) 1.5KV AC (rms.) 50Hz for 1 minute. (Between INPUT terminals & enclosure) 03) 1.5KV AC (rms.) 50Hz for 1 minute. (Between INPUT terminals & enclosure) 03) 1.5KV AC (rms.) 50Hz for 1 minute. (Between INPUT terminals & enclosure) 03) 1.5KV AC (rms.) 50Hz for 1 minute. (Between INPUT terminals & enclosure) 03) 1.5KV AC (rms.) 50Hz for 1 minute. (Between INPUT terminals & relay contact terminals) 04) 1.0KV AC (rms.) 50Hz for 1 minute. (Between INPUT terminals & relay contact terminals) 04) 1.0KV AC (rms.) 50Hz for 1 minute. (Between INPUT terminals & relay contact terminals) 04) 1.0KV AC (rms.) 50Hz for 1 minute. (Between INPUT terminals & relay contact terminals)	■ Specifications		
A: ON delay B: Interval C: ON delay cyclic D: Interval cyclic Rated supply Voltage  24 to 240V AC & 24 to 220V DC  Operating voltage range -10% to +10% of rated voltage Rated Frequency 50/60 Hz ± 5%  Power consumption AC approx.5VA DC approx.3W  Control output 2 c/o rated for 5A @ 250VAC/28VDC resistive load  Time range 0.1MIN to 10Hrs  Range selection 0.1Min to 10 Min 1Hr to 10Hrs  Setting accuracy ± 10% max. w.r.t full scale ± 100mSec  Repeat accuracy ± 1% max. ± 100mSec  Recovery time Variation due to voltage change 4 2% max. ± 100mSec  Variation due to frequency change 4 2% max. ± 100mSec  Sation due to temperature change 4 5% max. ± 100mSec  Control output 4 100mSec  Default of the temperature 4 100mSec  Control output 4 2% max. ± 100mSec  Control output 4 2%	Parameters Models	A1DM-X	
Operating voltage range	Function	A: ON delay B: Interval	
Rated Frequency 50/60 Hz ± 5%  Power consumption AC approx.5VA DC approx.3W  Control output 2 c/o rated for 5A @ 250VAC/28VDC resistive load  Time range 0.1MiN to 10Hrs  Range selection 0.1Min to 10 Min 1Hr to 10Hrs  Setting accuracy ± 10% max. w.r.t full scale ± 100mSec  Repeat accuracy ± 1% max. ± 100mSec  Recovery time 150mSec minimum  Variation due to voltage ± 2% max. ± 100mSec  Variation due to frequency ± 2% max. ± 100mSec  Variation due to temperature ± 5% max. ± 100mSec  Ambient temperature Operation : -10°C to + 55°C Storage : -25°C to + 80°C  Humidity MAX 95% RH @ 40°C  Service life (under no load) 10° operations minimum  Electrical life (under full load) 10° operations minimum  Rated frequency of operation 1800 ± 5% operations per hour max  Insulation resistance 201, 15KV AC (rms), 50Hz for 1 minute. (Between INPUT terminals & enclosure) 031, 15KV AC (rms), 50Hz for 1 minute. (Between contacts terminals & enclosure) 031, 15KV AC (rms), 50Hz for 1 minute. (Between non-continues contact of the relay)  Electrical connection 5crew type terminals with self lifting	Rated supply Voltage	24 to 240V AC & 24 to 220V DC	
Power consumption  AC approx.5VA DC approx.3W  Control output  2 c/o rated for 5A @ 250VAC/28VDC resistive load  0.1MIN to 10Hrs  Range selection  0.1Min to 10 Min 1Hr to 10Hrs  Setting accuracy  ± 10% max. wr.t full scale ± 100mSec  Repeat accuracy  ± 15mSec minimum  Variation due to voltage change  ± 2% max. ± 100mSec  4 ± 5% max. ± 100mSec	Operating voltage range	-10% to +10% of rated voltage	
Control output 2 c/o rated for 5A @ 250VAC/28VDC resistive load  Time range 0.1MIN to 10Hrs  Range selection 0.1Min to 10 Min 1Hr to 10Hrs  Setting accuracy ± 10% max. w.r.t full scale ± 100mSec  Repeat accuracy ± 1% max. ± 100mSec  Recovery time 150mSec minimum  Variation due to voltage change ± 2% max. ± 100mSec  Variation due to frequency towards of the following of the following towards of	Rated Frequency	50/60 Hz ± 5%	
Time range 0.1MIN to 10Hrs  Range selection 0.1Min to 10 Min 1Hr to 10Hrs  Setting accuracy ± 10% max. w.r.t full scale ± 100mSec  Repeat accuracy ± 1% max. ± 100mSec  Recovery time 150mSec minimum  Variation due to voltage change ± 2% max. ± 100mSec  Variation due to frequency change ± 2% max. ± 100mSec  Variation due to temperature ± 5% max. ± 100mSec  Ambient temperature Operation: -10°C to + 55°C Storage: -25°C to + 80°C  Humidity MAX 95% RH @ 40°C  Service life (under no load) 10° operations minimum  Reted frequency of operation 1800 ± 5% operations per hour max  Insulation resistance >100M ohms @ 500V DC  Dielectric strength 031.5KV AC (rms), 50Hz for 1 minute. (Between INPUT terminals & enclosure) 031.5KV AC (rms), 50Hz for 1 minute. (Between INPUT terminals & enclosure) 031.5KV AC (rms), 50Hz for 1 minute. (Between INPUT terminals & enclosure) 031.5KV AC (rms), 50Hz for 1 minute. (Between INPUT terminals & enclosure) 031.5KV AC (rms), 50Hz for 1 minute. (Between INPUT terminals & relay contact terminals ) 04) 1.0KV AC (rms), 50Hz for 10-30 sec. (Between INPUT terminals & relay contact terminals) Screw type terminals with self lifting	Power consumption	AC approx.5VA DC approx.3W	
Range selection  0.1Min to 10 Min 1Hr to 10Hrs  Setting accuracy  ± 10% max. w.r.t full scale ± 100mSec  Repeat accuracy  ± 1% max. ± 100mSec  150mSec minimum  Variation due to voltage change  variation due to frequency change  ± 2% max. ± 100mSec  change  Variation due to temperature change  Ambient temperature  Operation: -10°C to + 55°C Storage: -25°C to + 80°C  Humidity  MAX 95% RH @ 40°C  Service life (under no load)  10° operations minimum  Electrical life (under full load)  10° operations minimum  Rated frequency of operation  1800 ± 5% operations per hour max  Insulation resistance  >100M ohms @ 500V DC  01)1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & enclosure) 02) 1.5KV AC (rms), 50Hz for 1 minute.(Between contacts terminals & relay contact terminals ) 04) 1.0KV AC (rms), 50Hz for 10-30 sec.(Between non-continues contact of the relay)  Electrical connection  Screw type terminals with self lifting	Control output	2 c/o rated for 5A @ 250VAC/28VDC resistive load	
Setting accuracy	Time range	0.1MIN to 10Hrs	
Repeat accuracy ± 1% max. ± 100mSec  Recovery time 150mSec minimum  Variation due to voltage change ± 2% max. ± 100mSec  Variation due to frequency change ± 2% max. ± 100mSec  Variation due to temperature ± 5% max. ± 100mSec  Ambient temperature Operation: -10°C to + 55°C Storage: -25°C to + 80°C  Humidity MAX 95% RH @ 40°C  Service life (under no load) 10° operations minimum  Electrical life (under full load) 10° operations minimum  Rated frequency of operation 1800 ± 5% operations per hour max  Insulation resistance >100M ohms @ 500V DC  Dielectric strength 031.5KV AC (rms), 50Hz for 1 minute. (Between INPUT terminals & enclosure) 031.5KV AC (rms), 50Hz for 1 minute. (Between INPUT terminals & relay contact terminals) 041.0KV AC (rms), 50Hz for 1 minute. (Between INPUT terminals & relay contact terminals) 041.0KV AC (rms), 50Hz for 10-30 sec. (Between non-continues contact of the relay)  Screw type terminals with self lifting	Range selection	0.1Min to 10 Min 1Hr to 10Hrs	
Recovery time  150mSec minimum  Variation due to voltage change  Variation due to frequency change  Variation due to temperature change  ± 2% max. ± 100mSec  ± 5% max. ± 100mSec  ± 5% max. ± 100mSec  Ambient temperature Operation: -10°C to + 55°C Storage: -25°C to + 80°C  Humidity  MAX 95% RH @ 40°C  Service life (under no load)  10 <sup>6</sup> operations minimum  Electrical life (under full load)  Rated frequency of operation  1800 ± 5% operations per hour max  Insulation resistance  01)1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & enclosure) 02) 1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & relay contact terminals) 04) 1.0KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & relay contact terminals) 04) 1.0KV AC (rms), 50Hz for 10-30 sec.(Between non-continues contact of the relay)  Electrical connection  Screw type terminals with self lifting	Setting accuracy	± 10% max. w.r.t full scale ± 100mSec	
Variation due to voltage change  Variation due to frequency change  ± 2% max. ± 100mSec  ± 2% max. ± 100mSec  ± 5% max. ± 100mSec   ### ### ### ### ### ### ### ### ###	Repeat accuracy	± 1% max. ± 100mSec	
change  Variation due to frequency change  Variation due to temperature change  Ambient temperature  Operation: -10°C to + 55°C Storage: -25°C to + 80°C  Humidity  MAX 95% RH @ 40°C  Service life (under no load)  Electrical life (under full load)  Rated frequency of operation  1800 ± 5% operations per hour max  Insulation resistance  O111.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & enclosure)  O2) 1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & relay contact terminals)  O4) 1.0KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & relay contact terminals)  O4) 1.0KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & relay contact terminals)  O4) 1.0KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & relay contact terminals)  Screw type terminals with self lifting	Recovery time	150mSec minimum	
Variation due to temperature t5% max. ± 100mSec  Ambient temperature Operation: -10°C to + 55°C Storage: -25°C to + 80°C  Humidity MAX 95% RH @ 40°C  Service life (under no load) 10 <sup>6</sup> operations minimum  Electrical life (under full load) 10 <sup>5</sup> operations minimum  Rated frequency of operation 1800 ± 5% operations per hour max  Insulation resistance >100M ohms @ 500V DC  O1)1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & enclosure) 02) 1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & relay contact terminals) 04) 1.0KV AC (rms), 50Hz for 1 0-30 sec.(Between non-continues contact of the relay)  Electrical connection Screw type terminals with self lifting	Variation due to voltage change	± 2% max. ± 100mSec	
Ambient temperature Operation: -10°C to + 55°C Storage: -25°C to + 80°C Humidity MAX 95% RH @ 40°C  Service life (under no load) I0 <sup>6</sup> operations minimum  Electrical life (under full load) Rated frequency of operation I800 ± 5% operations per hour max    1800 ± 5% operations per hour max   1800 ± 5% operations minimum   1800 ± 5% op	change	± 2% max. ± 100mSec	
Humidity  MAX 95% RH @ 40°C  Service life (under no load)  10 <sup>6</sup> operations minimum  Electrical life (under full load)  10 <sup>5</sup> operations minimum  1800 ± 5% operations per hour max  Insulation resistance  >100M ohms @ 500V DC  01)1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & enclosure) 02) 1.5KV AC (rms), 50Hz for 1 minute.(Between contacts terminals & enclosure) 03) 1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & relay contact terminals) 04) 1.0KV AC (rms), 50Hz for 10-30 sec.(Between non-continues contact of the relay)  Screw type terminals with self lifting	Variation due to temperature change	±5% max. ± 100mSec	
Service life (under no load)   10 <sup>6</sup> operations minimum   10 <sup>5</sup> operations minimum   10 <sup>5</sup> operations minimum   1800 ± 5% operations per hour max   1800 ± 5% operations per	Ambient temperature	Operation : -10°C to + 55°C Storage : -25°C to + 80°C	
Electrical life (under full load)   10 <sup>5</sup> operations minimum   1800 ± 5% operations per hour max	Humidity	MAX 95% RH @ 40°C	
Rated frequency of operation   1800 ± 5% operations per hour max	Service life (under no load)	10 <sup>6</sup> operations minimum	
Screw type terminals with self lifting   Source   Sourc	Electrical life (under full load)	10 <sup>5</sup> operations minimum	
Dielectric strength  O1)1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & enclosure) O2) 1.5KV AC (rms), 50Hz for 1 minute.(Between contacts terminals & enclosure) O3) 1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & relay contact terminals) O4) 1.0KV AC (rms), 50Hz for 10-30 sec.(Between non-continues contact of the relay)  Electrical connection  Screw type terminals with self lifting	Rated frequency of operation	1800 ± 5% operations per hour max	
Dielectric strength  02) 1.5KV AC (rms), 50Hz for 1 minute.(Between contacts terminals & enclosure) 03) 1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & relay contact terminals) 04) 1.0KV AC (rms), 50Hz for 10-30 sec.(Between non-continues contact of the relay)  Electrical connection  Screw type terminals with self lifting	Insulation resistance	>100M ohms @ 500V DC	
3,5	Dielectric strength	02) 1.5KV AC (rms), 50Hz for 1 minute.(Between contacts terminals & enclosure) 03) 1.5KV AC (rms), 50Hz for 1 minute.(Between INPUT terminals & relay contact terminals)	
Dimension(W X H X D) 22.5 x 75 x 103.8mm	Electrical connection	Screw type terminals with self lifting	
	Dimension(W X H X D)	22.5 x 75 x 103.8mm	

# **Connection and Terminal Details**

	A1DM-X
Connection Details	

	A1DM-X
Terminal Details	<b>A1, A2</b> : Source Voltage <b>15, 16, 18</b> : C1, NC1, NO1 <b>25, 26, 28</b> : C2, NC2, NO2