

Features

- Din sized enclosure for Track / Screw mounting
- Front terminal protective cover for safety
- LED indication for timing in progress
- Time Delay selectable in four ranges (except A1DN-X (CSA))
- A1DN-X (CSA) 20mSecs factory set delay

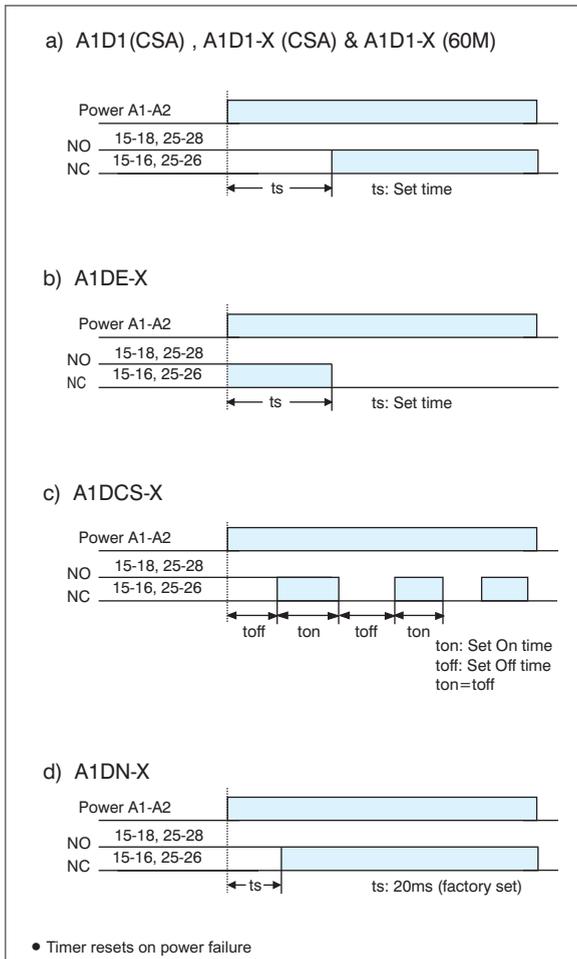


Ordering Information

Model	Function	Source Voltage	Time Range	Output	CSA Approved	CE Approved
A1D1(CSA)	On-Delay	240V AC	0.3 Secs to 30 Mins.	2 c/o Relay	✓	✓
A1D1-X(CSA)	On-Delay	X-Version	0.3 Secs to 30 Mins.	2 c/o Relay	✓	✓
A1D1-X(60M)	On-Delay	X-Version	0.6 Secs to 60 Mins.	2 c/o Relay	✓	✓
A1DE-X	Interval	X-Version	0.3 Secs to 30 Mins.	2 c/o Relay	✓	✓
A1DCS-X	Equal Off/On Cyclic	X-Version	0.6 Secs to 60 Mins.	2 c/o Relay	✓	-
A1DN-X(CSA)	Auxillary relay timer	X-Version	20 mSecs	2 c/o Relay	✓	✓

X -Version: 24V AC to 240V AC & 24V DC to 220V DC

Timing Diagram

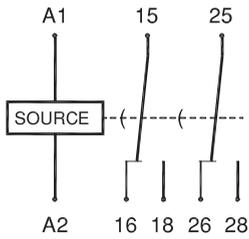


Specifications

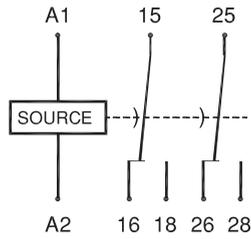
Operating Voltage Range	-20% to +10% for A1D1; -10% to +10% for X version of the rated voltage
Rated Frequency	50 Hz ± 5% for A1D1, 50 / 60 Hz ± 5% for X version
Control Relay Output	5A @ 250V AC, 5A @ 28V DC resistive load *Rated making current : * Max. breaking current: *Min. making & breaking current: *Control Relay Output:
	5A @ 250V AC, 5A @ 28V DC resistive load 100mA@ 5V DC 5A @ 250V AC/ 28V DC resistive load(A1DCS-X)
Setting Accuracy	±10%max. w.r.t full scale ±100mSec
Repeat Accuracy	±1% max. ±100mSec
Recovery Time	100mSec minimum
Rated Frequency of operation	1800 ±5% operations per hour max
Variation due to voltage change	±2%max ±100mSec
Variation due to temp. change	±5%max. ±100mSec
Variation due to frequency change	±2%max. ±100mSec
Ambient temperature	Operation: -10°C to +55°C, Storage: -25 °C to +80°C
Humidity	Max 85% RH @40°C
Service Life	10 ⁵ operations minimum (under no load)
Electrical Life	10 ⁵ operations minimum (under full load)
Electrical Connections	Screw type terminals with self lifting clamps
Power Consumption	AC approx. 3V A / 1W, DC approx. 2W for X Version
Insulation Resistance	>100M ohms @ 500V DC
Dielectric Strength	Refer Page Number 57 (for CE & CSA product)
Range selection	3s, 30s, 3m, 30m [A1D1(CSA),A1DE-X(CSA), A1D1-X(CSA)] 6s, 60s, 6m, 60m [A1DCS-X, A1D1-X(60m)]
Allowable ripple (for DC supply only)	3% max.
Dimensions	22.5 x 75 x 96.5mm [W x H x D]

Connections

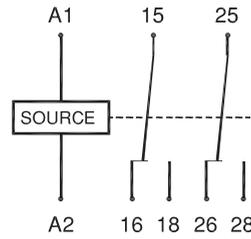
A1D1(CSA), A1D1-X(CSA) A1D1-X(60M)



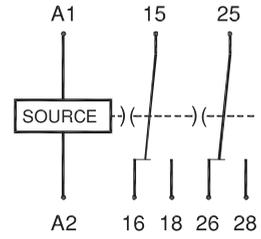
A1DE-X



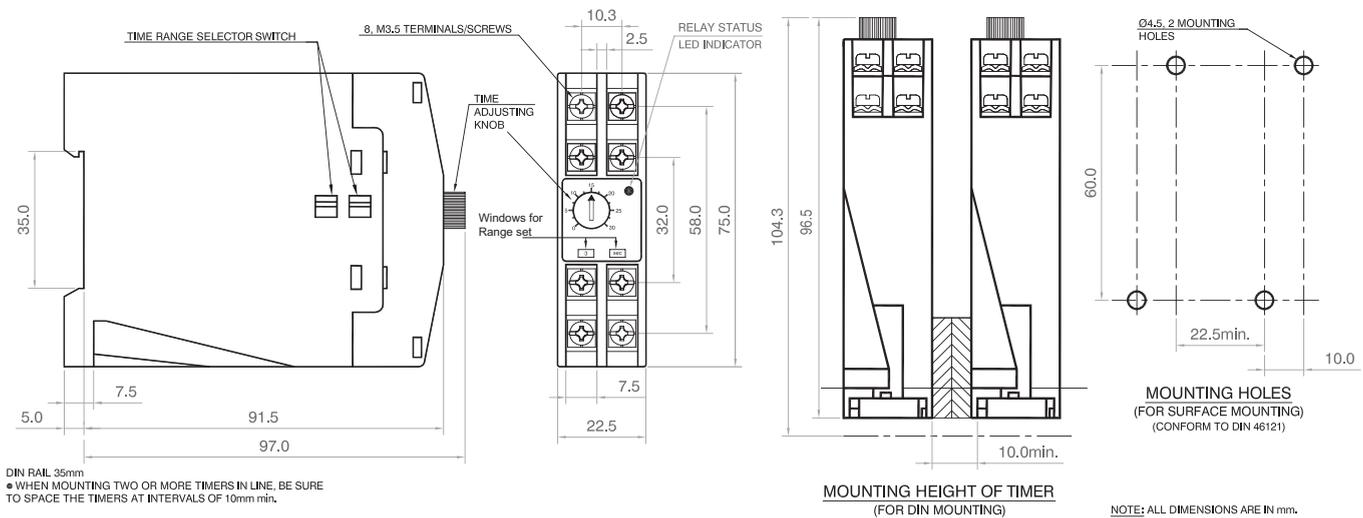
A1DN-X(CSA)



A1DCS-X



Dimensions



Accessories

Protective Cover

The protective cover shields the front panel, particularly the timer setting section from dust, dirt and as well as prevents the set value from being altered due to accidental contact with time setting knob

Hints on correct use

- Change the positions of range selector slide switches on the left hand side of the timer & rotate the pot to get desired time setting with the flat blade screw driver.

⚠ Caution

- Do not change the time range & set time while the timer is in operation.
- Switch off the power while changing the time range & set time.
- Application of voltage other than the specified one will permanently damage the timer.
- Use 2.5mm² U-type lugs with sleeve.