

N22-X Series Timers

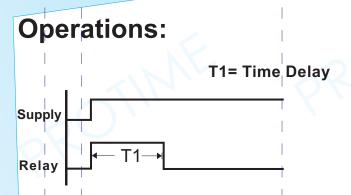
Special Features

- High Repeat accuracy & low tolerance in setting accuracy (>1%)
- Wide range of power supply from 90 to 270V AC/DC
- -O User friendly design with ON/IN delay selectable even in low cost versions
- **5** modes on Delay, interval, Equal cyclic (ON First) Equal cyclic (off first),Pulse O/P in one
- Timers for almost all applications

PROTIN

Technical Data

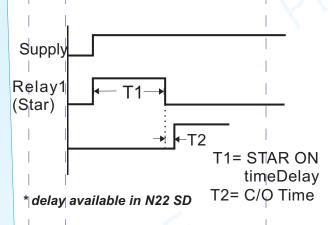
		V
1)	Output contacts	-2 change over contacts or 1 changeover
2)	Switching duty	-6A Resistive at 240V AC or 24V DC
3)	Electrical life	-10 ⁵ operations at switching duty \bigcirc
4)	Operating Voltage	- W= 90-270V AC/DC <u>or</u> 110V / 220V / 415V AC / 12/24V DC
		- d= 230V AC + 24V DC (any one)
5)	Permissible Voltage	-± 25% max
6)	Power Consumption	-10VA (max)
7)	Reset Time	-100 ms max
8)	Repeat Accuracy	-± 0.5% full scale
9)	Setting Accuracy	-± 1% of full scale.
10)	LED Indications	-a) Power ON b) Relay ON
11)	Mounting	-Standard DIN mounting channel or Wall mounting
12)	Dimensions	-22.5mm(W) x110mm(H) x 74mm(D)
	Panel cutout	-45mm x 23mm(If required)
13)	Enclosure	- PE/EN/N22/092K8
14)	Operating Temp.	10°C, +55°C up to 80% RH
15)	Storing temp.	22°C, +55°C up to 95% RH
16)	Weight	- 0.115Kg



* Delay available in N22 M1d, N22S1d, & N22 MX

ON Delay:-

On applying operating supply voltage at respective terminals, the time delay starts as selected on dial. After time delay relay will get energized and remains continuously ON.



In Delay:-

On applying operating Supply voltage at respective terminals, relay shall energize and time delay starts as per selection on dial. After the delay relay shall get deenergized and remains OFF till re-started (by removing & giving the power supply).

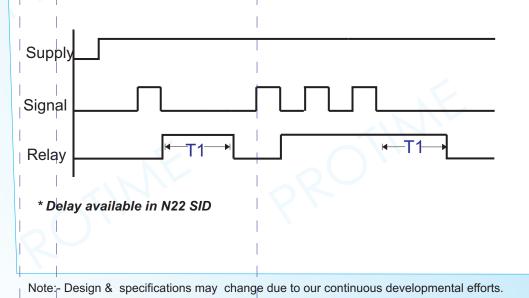


Star Delta:-

On applying operating voltage at supply terminals, STAR relay (RL1) shall energize instantly while Delta relay (RL2) remains OFF. After the delay RL1 shall de-energize. RL2 shall energize after the changeover time delay selected (m. Secs.) and then remains ON continuously.

Signal In Delay:-

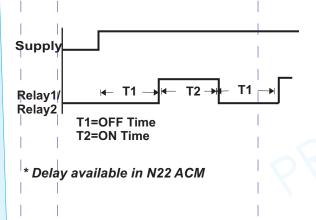
After applying power supply, if active pulse is given across terminal 2 and 3, the relay energizes instantly and time delay starts as set on dial. After time delay, relay deenergizes. If during the time delay another active pulse is applied, shall reset the delay. Operation can be reset by power ON-OFF also.



Operations(Contd):

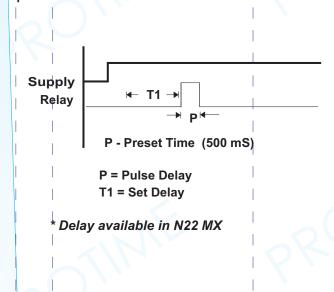
Equal Cyclic (OFF First):-

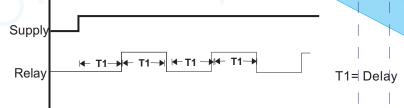
In this mode relay remains OFF first for the set time delay, and then becomes ON for time delay same as that for OFF time. The operation continues in cyclic manner till power supply is active.



Adjustable Reverse Forward Relay:-

There are two time Delays. Pause Time & Run Time. When Pause Time is active, both the relays i.e. F/W relay & REV relay are OFF. After Pause Time, Run Time starts. In Run mode F/W relay & REV relay energized alternately. As soon as power gets ON Pause Time starts & then Run time after it. The cycle continues till power supply is active.Restarting of power supply RESETS the operation.

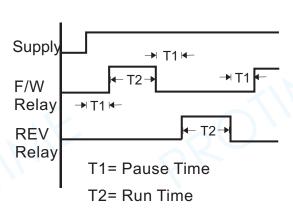




* Delay available in N22 MX

Adjustable Cyclic Mode:-

On applying operating voltage at supply terminals, relay shall remain OFF first for time delay selected on "OFF time" dial, then it shall get ON for time delay selected by "ON time" dial, thus relay shall get OFF and ON for selected time delay and operation continues in cyclic manner till power supply is active.

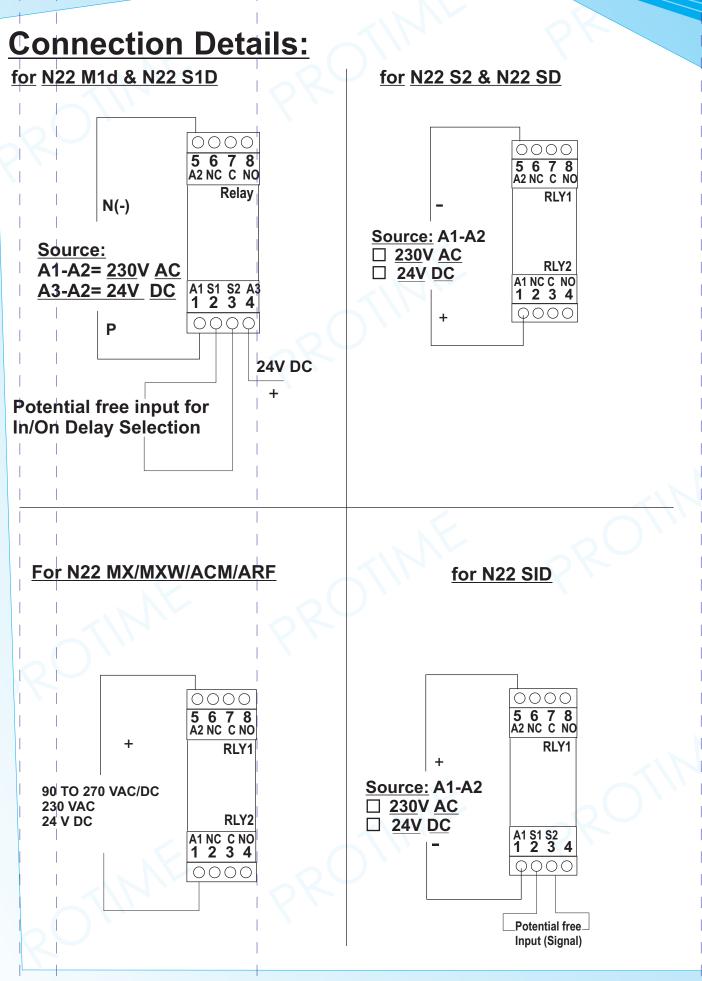


* Delay available in N22 ARF

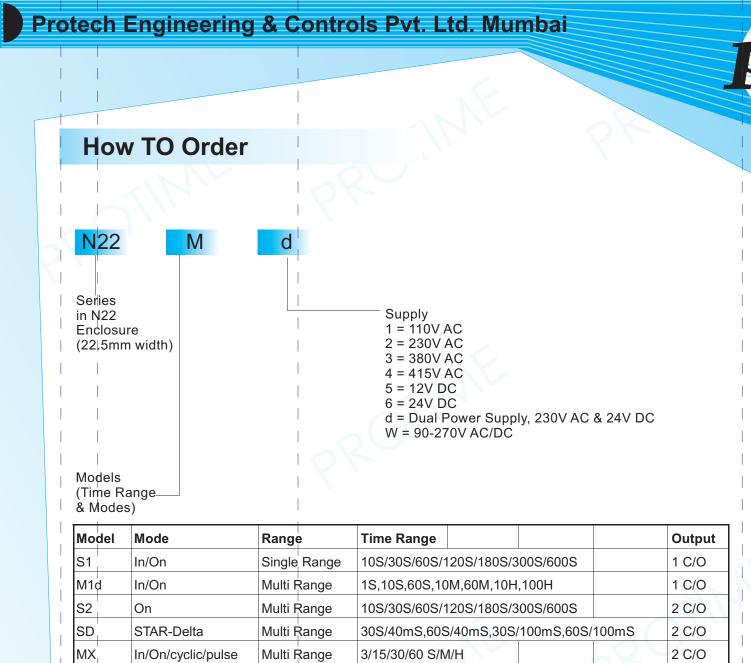
Pulse Delay:-

In Pulse delay mode pulses of fixed time delay is generated after the set delay on dial. As soon as Power supply is applied the time delay starts, after time delay relay shall becomes ON for preset time i.e. 500ms only once. Removing input voltage resets the time delay & gives another pulse.

Notei- Design & specifications may change due to our continuous developmental efforts.



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10S/30S/60S/120S/180S/300S/600S

10S/20S/40S/80S & 10M/20M/40M/80M

3 to 30 Sec/M/H

1 C/O

2 C/O

2 C/O

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Single Range

Multi Range

Multi Range

SID

ACM

ARF

Signal In Delay

Run/Mode

Adjustable Cyclic