

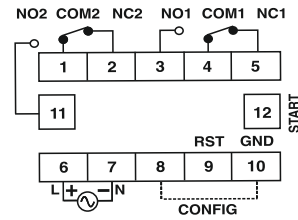


48 x 48

**SPECIFICATIONS**

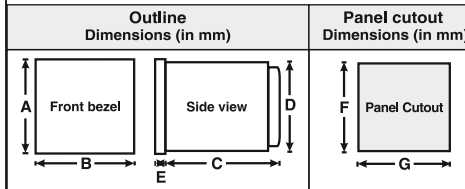
- Display** : 3 digit,height 0.5".
- Set Points** : Single set point
- Delay Modes** : On Delay, Interval, Cyclic On first & Cyclic Off first ( Configurable by key)
- Supply** : 90 to 270V AC / DC, 50 / 60 Hz, 5VA max.
- Time Ranges** : 9.99 / 99.9 / 999sec  
9.59 min:sec, 99.9 / 999 min,  
9.59 hour:min, 99.9 / 999 hour  
( Configurable by key)
- Time Setting** : By key pad
- Accuracy** : ± 0.5% or 50 msec,  
(Whichever is greater)
- Start Input** : Pulse, Gate (Programmable)
- Reset Input** : 1)On interruption of power,  
2)Front panel reset  
( for on delay / Interval only)  
3)Terminal reset
- Reset Time** : Less then 100 msec
- Counting** : UP/Down
- Direction** : UP/Down
- LED** : Relay status
- Indication** : Relay status
- Outputs** : 2 C/ O (SPDT)
- Relay Rating** : 5A@250V AC / 30V DC, Resistive
- Mounting** : Panel mounting
- Configuration** : Via rear mounting
- Lock** : Via rear mounting
- Temperature** : **Operating** : 0 to 50°C  
**Storage** : -20 to 75°C
- Humidity** : 95% RH
- Housing** : ABS
- Weight** : 123.9 gms

**TERMINAL CONNECTIONS**



**MECHANICAL INSTALLATION**

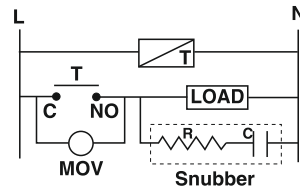
For installing the Timer  
1.Prepare the panel cutout with proper dimensions as shown below :



MODELS	DIM	A	B	C	D	E	F	G
XT543-N		48	48	100	45	7	46	46

2. Remove the clamp from the controller and push the controller into the panel cutout. Insert the clamp from the rear side until the main is securely fit into the panel.

**LOAD CONNECTIONS**



- 1) Snubber Part No.: APRC - 01.
- 2) MOV Part No.: AP-MOV - 03.

Note: For including loads, use of snubber and MOV, as shown above, is recommended.

**PROGRAMMING SCHEME**

CONFIGURATION SCHEME :  
1) At power OFF, short terminals for configuration\*.  
2) Turn power ON.  
3) Program configuration setting as per instructions below.

**NOTE** : LSD dp blink during programming.  
\*Short terminals 8 & 10 to enter into the configuration mode.

1. TO SELECT RANGE Default Setting : 9.99sec

KEY PRESS	DISPLAY	DESCRIPTION
RANGE	1 0	9.99sec
PRESS <b>□</b> + <b>▲</b>	1 1	99.9sec
PRESS <b>□</b> + <b>▲</b>	1 2	999sec
PRESS <b>□</b> + <b>▲</b>	1 3	9.59 min:sec
PRESS <b>□</b> + <b>▲</b>	1 4	99.9min
PRESS <b>□</b> + <b>▲</b>	1 5	999min
PRESS <b>□</b> + <b>▲</b>	1 6	9.59 hr:sec
PRESS <b>□</b> + <b>▲</b>	1 7	99.9hr
PRESS <b>□</b> + <b>▲</b>	1 8	999hr

(NOTE-LSD dp blinks when the timing is in progress)

2. PRESS **▲** KEY TO SELECT DELAY MODE Default Setting : On Delay

KEY PRESS	DISPLAY	DESCRIPTION
DELAY MODE	2 0	ON DELAY
PRESS <b>□</b> + <b>▲</b>	2 1	INTERVAL DELAY
PRESS <b>□</b> + <b>▲</b>	2 2	CYCLIC (ON FIRST)
PRESS <b>□</b> + <b>▲</b>	2 3	CYCLIC (OFF FIRST)

3. PRESS **▲** KEY TO ENABLE / DISABLE FRONT PANEL RESET OPTION Default Setting : Enabled.

Note: Valid only for On delay / Interval mode.

KEY PRESS	DISPLAY	DESCRIPTION
FRONT PANEL RESET	3 0	ENABLED (YES)
PRESS <b>□</b> + <b>▲</b>	3 1	DISABLED (NO)

4. PRESS **▲** KEY TO SELECT START INPUT Default Setting : Pulse Start.

KEY PRESS	DISPLAY	DESCRIPTION
START INPUT	4 0	GATE START
PRESS <b>□</b> + <b>▲</b>	4 1	PULSE START

**Pulse start:** In Pulse start mode, the timing starts on momentary closure of the Start switch.

**Gate start:** In Gate start mode, when the Start switch is closed, the timing stops and proceeds only after the start switch is released.

5. PRESS **▲** KEY TO CHANGE DIRECTION Default Setting:Down

KEY PRESS	DISPLAY	DESCRIPTION
Counting Direction	5 0	Down
PRESS <b>□</b> + <b>▲</b>	5 1	UP

6. PRESS **▲** KEY TO RESET ALL PARAMETERS TO DEFAULT VALUE

Note: Reset all function is used only to set all parameter values back to default.

KEY PRESS	DISPLAY	DESCRIPTION
RESET ALL	6 0	NO ACTION
PRESS <b>□</b> + <b>▲</b>	6 1	NO ACTION
PRESS <b>□</b> + <b>▲</b>	6 2	NO ACTION
PRESS <b>□</b> + <b>▲</b>	6 3	NO ACTION
PRESS <b>□</b> + <b>▲</b>	6 4	NO ACTION
PRESS <b>□</b> + <b>▲</b>	6 5	NO ACTION
PRESS <b>▲</b>	1 0	RESET ALL

AFTER CONFIGURATION SETTING :

- 1) Turn power OFF.
- 2) Remove link between the terminals.
- 3) Turn power ON.

**TO PROGRAM SET TIME :**

FOR ON DELAY / INTERVAL MODE :  
Press **□ + ▲ + ▽** to program set time.

For Cyclic mode :  
ON time - Press **□ + ▲ + ▽** to program on time

OFF time - To enter programming of off time  
press **▲ + ▽** for 3sec. When in Off  
time programming, the LSD dp blinks  
Then press **□ + ▲ + ▽** to set off time.

To Exit programming press **▲ + ▽** for 3sec or  
auto program out after 60sec if no key is pressed.

**TO RESET :**

For On delay / Interval mode : Press **▲ + ▽** for  
0.6sec to reset.

For Cyclic mode : Front reset not valid.  
Reset only through pulse given  
From rear terminals.

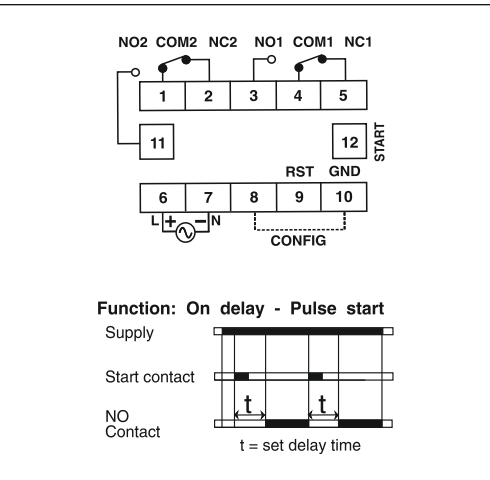
**USER GUIDE**

Typical applications of Pulse start & Gate start input:

**1. ON Delay with Pulse start input:**

- i. Terminal connections shall be as per fig. 1
- ii. Timing starts on momentary closure of Start switch.
- iii. If Start switch is kept closed continuously, the timing will start at every power ON or reset.

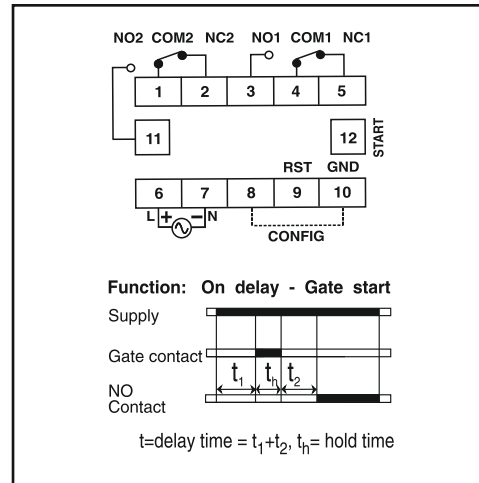
**XT543-N in ON Delay mode and Pulse start input:  
Fig.1 Terminal Connections**



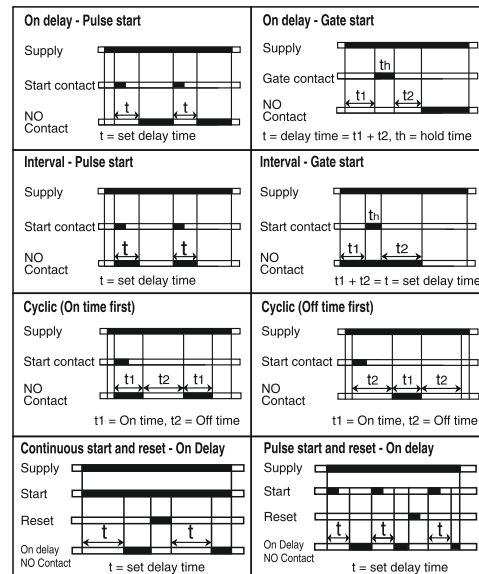
**2. ON Delay with Gate start Input:**

- i. Terminal connections shall be as per fig. 2.
- ii. Timing starts at power ON.
- iii. When the start switch is closed, the timing is held and it proceeds only after the start switch is released.

**XT543-N in ON Delay mode and Gate start input:  
Fig.2 Terminal Connections**



**OPERATING MODES**



(Specifications are subject to change, since development is a continuous process.)

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