Programmable Timer / Counter

XTC562



48 x 48 mm

Features:

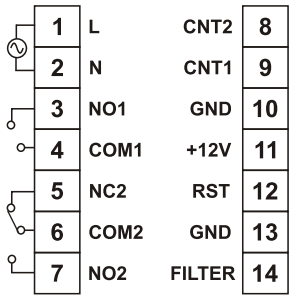
- 6 digits dual display for Timer / Counter / Rate / Batch
- Dual set point
- Programmable input scaling
- User configurable relay 2 operation mode
- Unidirectional, Bi - directional, Quadrature counting modes
- User configurable Time / Count / Rate / Batch

Technical specifications

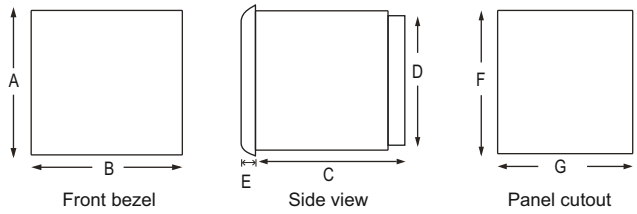
Display specifications	
Display	6 digits dual display for Timer / Counter / Rate / Batch
LED indication	Out1, Out2 CNTR: counter, R: Rate, B: Batch TMR: Timer, S: sec, M:minutes, H: hours
Input specifications	
Sensor type	NPN / PNP
Count inputs	5 to 30 VDC from proximity switches, Encoders, solid state devices, Potential free contacts like limit switches, Relays
Input frequency	a) 10Hz b) 15KHz
Start input	Pulse, Gate, Level
Accuracy	Rate: 0.05% Timer: ±0.05% of setting or 50 ms whichever is greater
Output specifications	
Sensor supply	Inbuilt, 12V DC, 30mA
Relay outputs	1SPDT, 1SPST
Contact rating	For SPDT: NO: 10A 250V AC / 28V DC NO/ NC: 5A / 5A 250V AC / 28V DC For SPST: 5A @230V AC / 12V DC
Functional specifications	
Modes	Timer: On delay, Interval, Cyclic on first, Cyclic Off first, Instantaneous + Delayed at start pulse, Instantaneous + Delayed at power on, Motor reverse, Batch. Counter: ON delay, Interval, Time pulse repeat, Auto reset Rate: HA/ LA/ BAND
Time ranges	Timer : 9999.99 / 99999.9 / 999999 sec, 9999.59 min: sec / 99999.9 min, 999999 min 9999.59 hr: min / 99999.9 / 999999 hr Counter: Selectable least count 0.0001, 0.001, 0.01, 0.1 & 1
Counting direction	Unidirectional, Bi - directional & Quadrature
Set point	2
Scale factor	Programmable from 0.00001 to 9.99999 x 10^n Where n = - 5, - 4, - 3, - 2, - 1, 0, 1, 2
Reset	Front, Remote, Power interruption (Minimum reset time for remote reset is 10ms)
Memory retention	Yes
Auxiliary supply specifications	
Supply voltage	90 to 270V AC/DC (50/60Hz)
Environmental specifications	
Temperature	Operating : 0 to 50 °C (32 to 122 °F) Storage : - 20 to 75 °C (- 4 to 167 °F)
Humidity (Non-condensing)	95% RH

Mechanical specifications	
Mounting	Panel mount
Weight	120gm

Terminal connections



Dimensions (All are in mm)



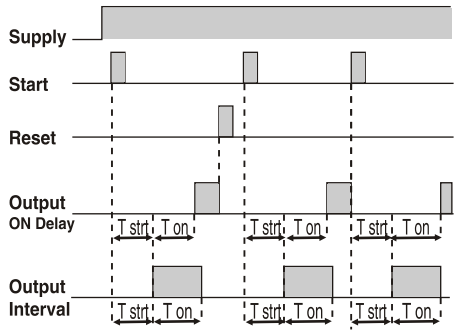
MODELS / DIM	A	B	C	D	E	F	G
XTC562	48	48	69	40	3	44	44

Compliance

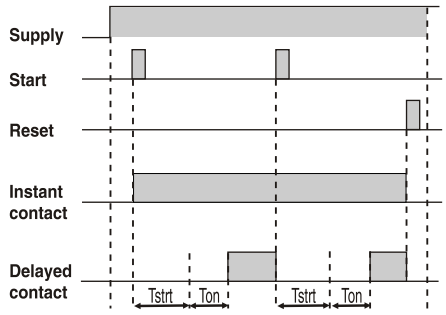
Applicable EMI / EMC standards		
Product standard		
Category	**Reference standards**	**Testing level**
Electrostatic discharge	IEC 61000-4-2	Level-3
Electrical fast transient / Brust	IEC 61000-4-4	Level-3
Electromagnetic field	IEC 61000-4-3	Level-3
Surge	IEC 61000-4-5	Level-3
Conducted RF	IEC 61000-4-6	Level-2
Rated power frequency	IEC 61000-4-8	Level-4
Voltage dip / Short interruptions	IEC 61000-4-11	Level-3
Conducted emissions	CISPR-11	Class-B
Rated emissions	CISPR-22	Class-A
Emission & Immunity	IEC 61326-1	
Safety	IEC 61010-1	
PFMF (Passing criteria)	IEC 61000-4-8	Class A

Timing diagrams

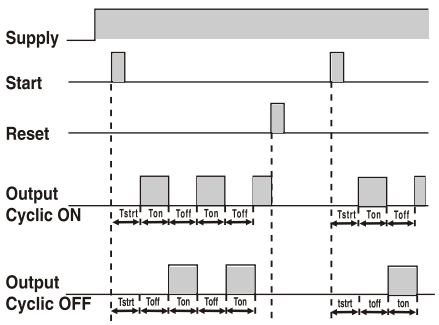
1. On delay, Interval modes:



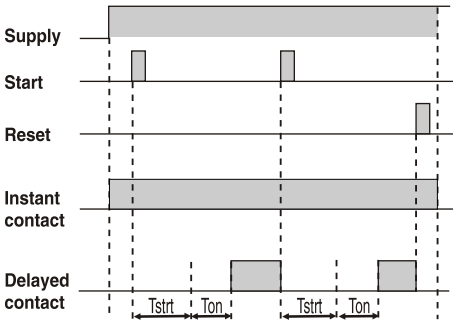
2. Instantaneous + Delayed at start pulse:



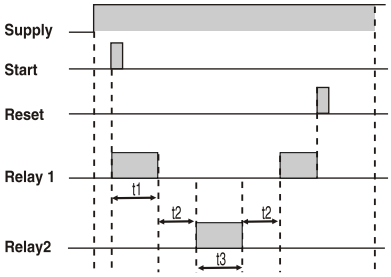
3. Cyclic ON first, Cyclic OFF first modes:



4. Instantaneous + Delayed at power on:

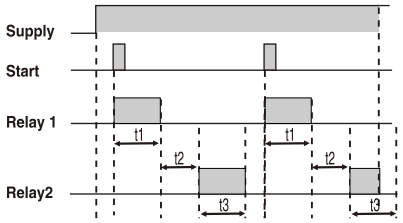


5. Motor reverse mode:



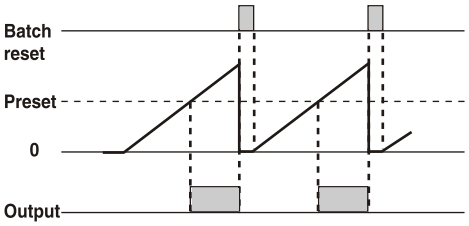
t1 = On time of relay1, t3 = On time of relay2,
t2 = Pause time

6. Motor reverse manual mode:



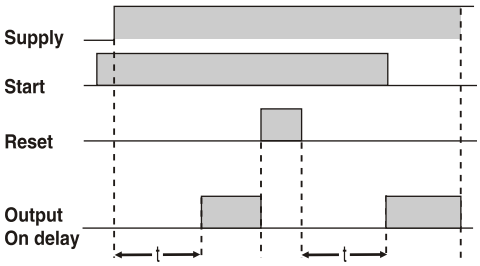
t1 = On time of relay1, t3 = On time of relay2,
t2 = Pause time

7. Batch mode

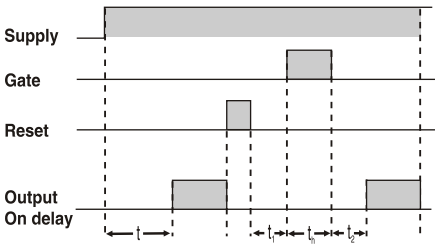


Batch mode

8. Typical application of Continuous start and reset and in On delay mode :

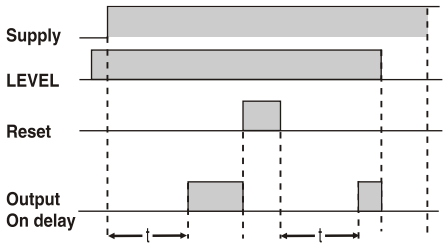


9. Typical application of Gate start in On delay mode :



$t_1 + t_2 = t$ (set time), t_h = hold time.

10. Typical application of Level start in On delay mode :



Ordering information

Product code	Output1	Output2	Supply voltage	Certification
XTC562	RELAY (5A)	RELAY (5A)	90 to 270V AC/DC	- - -