Programmable Timer / Counter

XTC262

72 x 72 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**
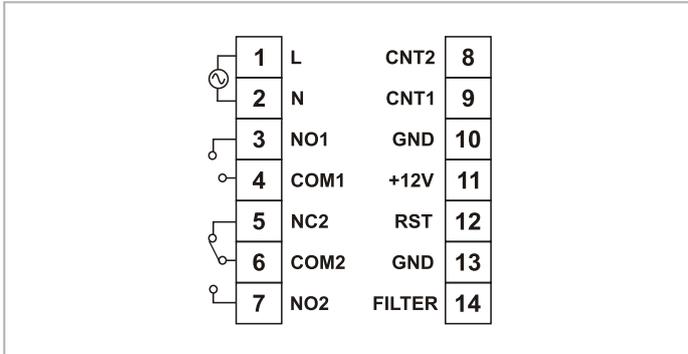- ▶ **User configurable Time / Count / Rate / Batch**
- ▶ **Compact size**

Certifications : CE ✔ RoHS compliant

Technical specifications

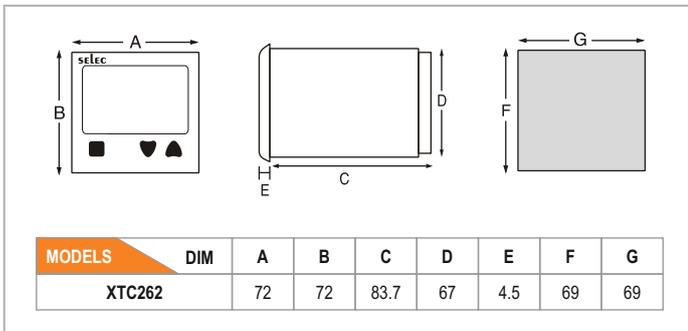| Display specifications	
Display	6 digits dual display for Timer / Counter / Rate / Batch
LED indication	Out1, Out2 CNTR: counter, R: Rate , B: Batch TMR: Timer, S: sec, M:minutes , H: hours
Input specifications	
Sensor type	NPN / PNP
Count inputs	5 to 30VDC from proximity switches, encoders, solid 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	2
Contact rating	1SPDT :5A@230VAC/12VDC 1SPST :5A@230VAC/12VDC
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 9.99999×10^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	200gms

Terminal connections

1	L	CNT2	8	
2	N	CNT1	9	
3	NO1	GND	10	
4	COM1	+12V	11	
5	NC2	RST	12	
6	COM2	GND	13	
7	NO2	FILTER	14	

Dimensions

MODELS	DIM	A	B	C	D	E	F	G
XTC262		72	72	83.7	67	4.5	69	69

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:

Supply
Start
Reset
Relay 1
Relay2

t1
t2   t2
t3
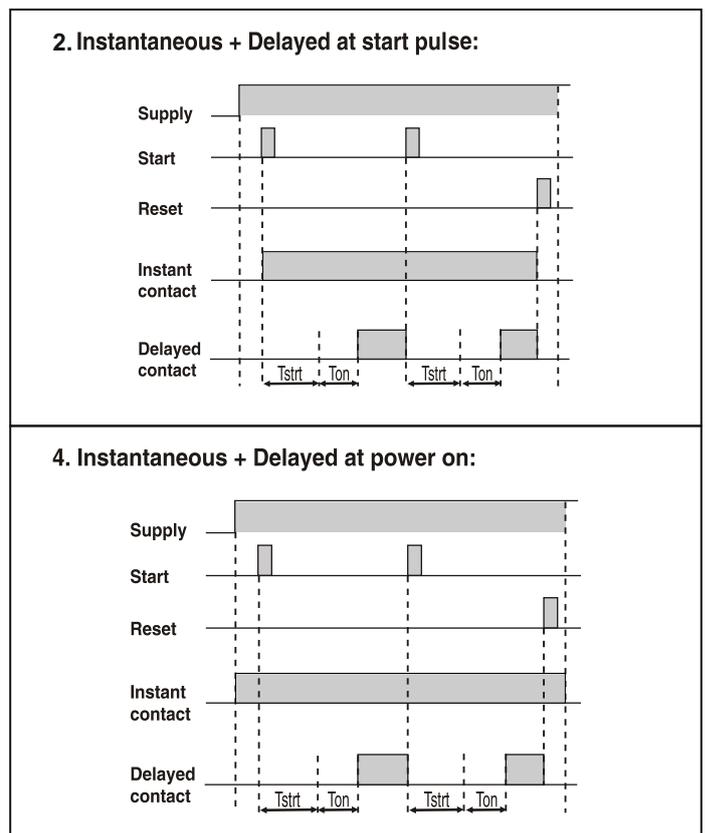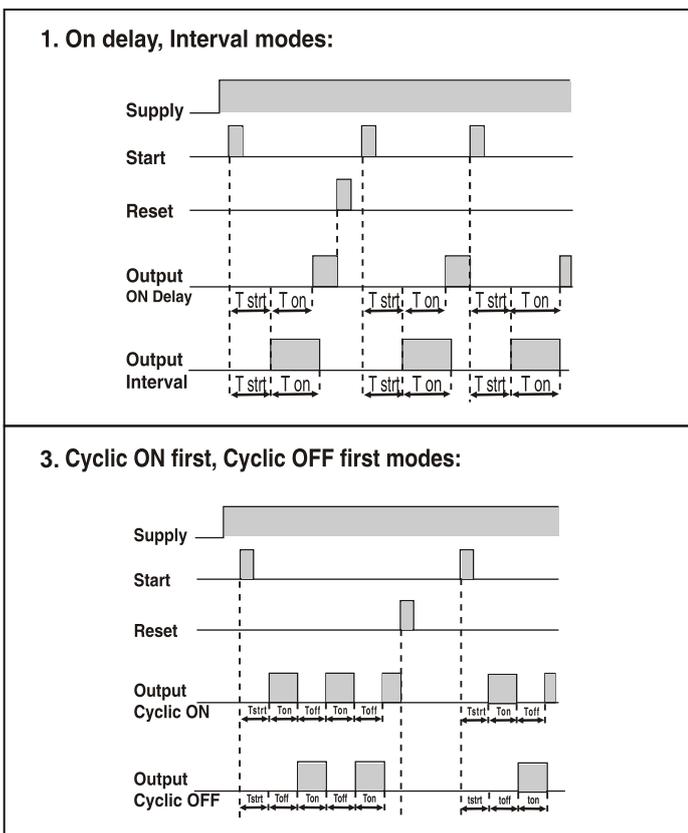
$t1$ = On time of relay1, $t3$ = On time of relay2,
$t2$ = Pause time
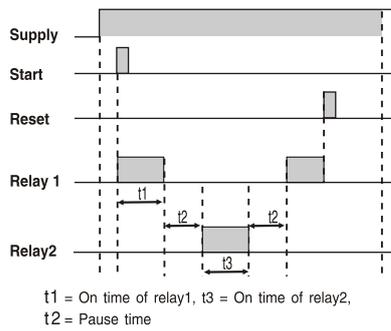
6. Motor reverse manual mode:

Supply
Start
Relay 1
Relay2

t1   t2   t1   t2
t3   t3

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

7. Batch mode

Batch
reset
Preset
0
Output
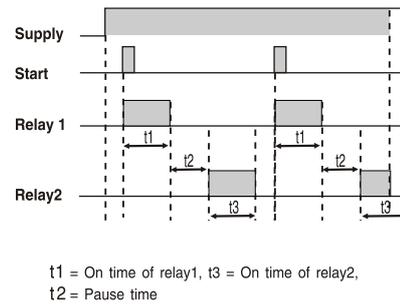
Batch mode
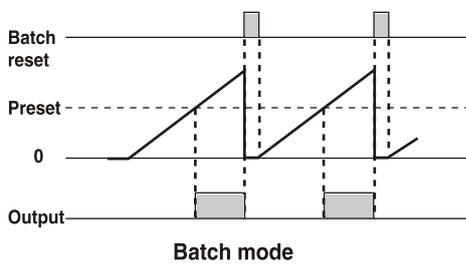
Typical application of Continuous start and reset in On delay mode:

Supply
Start
Reset
Output
On delay

t   t
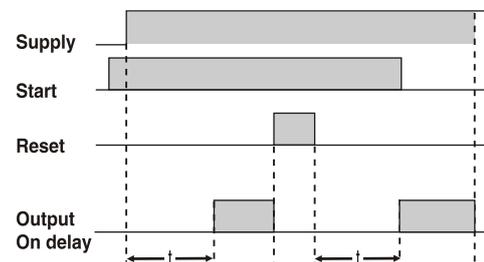
Typical application of Gate start in On delay mode:

Supply
Gate
Reset
Output
On delay

t   t₁ tₕ t₂

$t_1 + t_2 = t$ (set time), t_h = hold time.
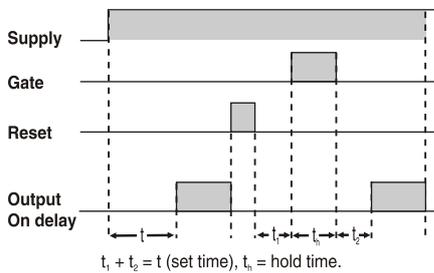
Typical application of Level start in On delay mode:

Supply
LEVEL
Reset
Output
On delay

t   t
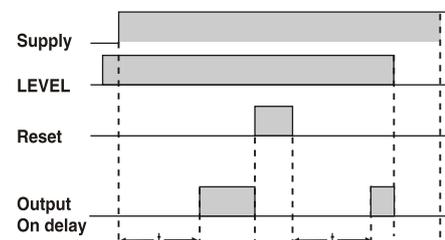
Ordering information

Product Code	Output1	Output2	Supply voltage	Certification
XTC262	RELAY (5A)	RELAY (5A)	90 to 270V AC / DC	C€