OP1091-V01

selec

XTC4102 , XTC4102-2

Operating Instructions

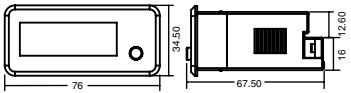
36 X 72mm

SPECIFICATIONS

Display	6 digit, 0.30" White 7 segment LED
Supply voltage	XTC4102:- 90 to 270V AC/ DC,@50/60 Hz XTC4102-2:- 12 to 24V DC
Time range	**Counter :** 999999 counts **Timer :** a) 99999.9 sec b) 999999 sec c) 99999.9 min d) 999999 min e) 99999.9 hrs f) 999999 hrs
Sensor Supply	12VDC@30mA (use external supply if current>30mA)
Input	**Counter :** 5 to 30V DC from Proximity switches, Encoders, Potential free contacts, Limit switches etc. **Timer :** Potential free contact
Input Speed	**Counter :** 1. 20Hz (DIP 1 ON) 2. 5 kHz (DIP 1 OFF)
Memory retention	10 years
Accuracy	±0.05% for Time Range
Housing	Flame retardant plastic.
Mounting	Panel mounting.
Temperature	Operating : 0 - 50°C Storage : -20 - 75°C
Humidity	95% RH
Weight	85gms

MECHANICAL INSTALLATION

Panel cutout : 29mm x 71mm



SAFETY PRECAUTIONS

Please maintain these instructions and review them prior to using the unit :

⚠ WARNING

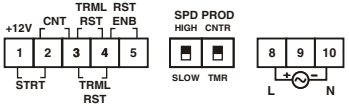
1.This unit is panel mounted type with its output terminals connecting to the host equipment. Such equipment shall also comply with basic EMI/EMC and safety requirements like IEC 61326-1 and IEC 61010 respectively.
2.To avoid electric shock, power supply of the unit should be kept off while wiring. Wiring should be done strictly as per the terminal layout, given in the manual.

⚠ CAUTION

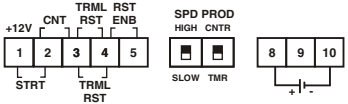
1.This unit is not intended for outdoor use.
2.The power connection cable must have a cross-section of at least 1sq.mm and insulation capacity of at least 1.5kV.
3.The output connections must not be loaded beyond the specified values/range.
4.Avoid inflow of dust and contact of conductive material with the internal circuitry of the unit.
5.The unit must not operate in presence of heating sources,
caustic vapors, oil, steam, vibration or impact etc.
6. Use clean moist cloth soaked in water for cleaning. Avoid entry of water into the circuitry through the ventilation holes.

TERMINAL CONNECTIONS

XTC4102



XTC4102-2



TERMINALS	FOR COUNTER	FOR TIMER
1	+12V	+12V
1 - 2	-	Start
2 - 3	Count	-
3 - 4	Terminal Reset	Terminal Reset
4 - 5	Front Reset Enable	

DIP SWITCH SETTING

DIP SWITCH	OFF	ON
DIP 1*	High speed	Slow speed
DIP 2	For Counter	For Timer

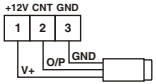
***Note: DIP 1 is available only for Counter.**

TYPICAL APPLICATION

FOR COUNTER

CASE1: Operated by external contact.
1) A PNP/NPN proximity sensor can be used instead of switch.(NPN/PNP can selected through Config)
2) Connect proximity switch between terminals 1,2 & 3.
3) The count displayed on XTC4102 will be indicative count (Sensed by Sensor).

NPN / PNP Sensor :



CASE2: Operated only by Potential free contact

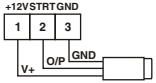
Potential free contact :

Note :- Potential free count will work only during NPN selection

FOR TIMER

CASE1: Operated by external contact.
1) A PNP proximity sensor can be used instead of a switch.
2) Connect proximity switch between terminals 1,2 & 3.
3) The time displayed on XTC4102 will be indicative of the time for which the machine is ON(Sensed by Sensor).

PNP Sensor :

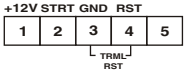


CASE2: Operated only by Potential free contact
1) Short Terminal 1 & 2 of XTC4102.
2) Display will be On when power is applied to the machine and XTC4102 at a same instance. XTC4102 will display the time for which the machine is ON.

Potential free contact :

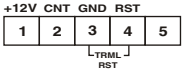
RESET METHOD

For Timer :-
By Terminals : Short terminals 3 & 4 .



For Counter :-
By front key : Short terminals 4 & 5 to enable front panel reset. Press RST key ● momentarily

Remote reset :

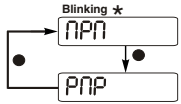


CONFIGURATION INSTRUCTION

1) Press ●key at complete power ON to enter configuration mode
2) Scroll various function ranges by pressing ●key.

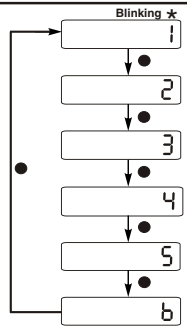
FOR COUNTER

Sensor Selection — **Default : NPN**



FOR TIMER

Range Selection — **Default : 1**



The unit will auto exit configuration mode after 15sec. of key inactivity or by turn unit OFF & ON

TO READ RANGE (For Timer Only)

KEY PRESS (MOMENTARY)	DISPLAY	DESCRIPTION
●	1	Range code is displayed for selected range

(Specifications are subject to change as development is a continuous process)

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