

# XC410 OPERATING INSTRUCTIONS



36 x 72

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

**⚠ Warning:**

- 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 BSEN 61326-1 and BSEN 61010 respectively.
- 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.
- External fuse with a rating of 275VAC/1A is recommended.

**⚠ Caution:**

- This unit is not intended for outdoor use.
- The power connection cable must have a cross-section of atleast 1sq.mm and insulation capacity of atleast 1.5kV.
- The output connections must not be loaded beyond the specified values/range.
- Avoid inflow of dust and contact of conductive material with the internal circuitry of the unit.

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

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Doc. name : OP INST XC410 UL RoHS OP033-V05(U.1.1)Page 1 of 1

- The unit must not operate in presence of heating sources, caustic vapors, oil, steam, vibration or impact etc.
- Use clean moist cloth soaked in water for cleaning. Avoid entry of water into the circuitry through the ventilation holes.

**Specifications:**

- Display:** 6 digit, 0.3" height, red 7 seg LED.
- Inputs:**

3 to 30VDC from Proximity switches, Encoders, Potential free contacts, Limit switches etc..

- Input Speed:** (Selectable)

- 20Hz (terminal nos. 6 & 7 shorted)
- 1kHz (terminal nos. 6 & 7 open).

- Sensor Supply:**

12VDC @ 30mA (±10%), short ckt protected.

- Reset:**

- On front panel (selectable).
- Remote reset (via rear terminals).

- Memory retention:** 10 years.

- Supply voltage:** 90 to 270V AC/DC..

- Housing:** Flame retardant plastic.

- Mounting:** Panel mounting.

- Temperature:**

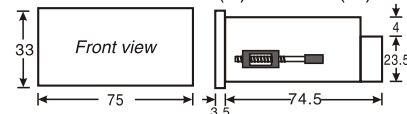
Operating: 0 - 50°C, Storage: -20 - 75°C.

- Humidity:** 95 % RH.

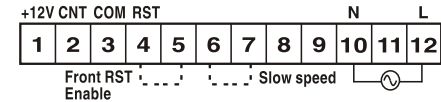
- Weight:** approx. 90gms.

**Dimensions (in mm):**

Panel cutout : 29mm (H) x 71mm (W)



**Terminal connections:**



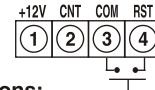
**Note:** - Remove jumper between 6 and 7 for high speed upto 1kHz

1	+12V sensor supply
2	Count Input
3	COM
4	Reset Input
4 - 5	Short for front panel reset enable
6 - 7	Short for slow speed upto 20Hz
10 - 12	Live - Neutral

**Resetting the XC410:**

**By front key:** Short terminals 4 & 5 to enable front panel reset. Press RST key momentarily.

**Remote reset:**



**Input connections:**

(Sensor color codes:- Red = +12V, Green = CNT, Blk = GND; Brown = +12V, Blk = CNT, Blue = GND)

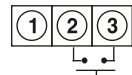
**Selection for Input sensor:**

INPUT SENSOR	JUMPER SELECTION
PNP	PNP (Jumper between 2 and 3)
NPN / Potential free contact	NPN (Jumper between 2 and 4)

Jumpers are located towards the right side of the unit. Given above is the Front view of jumpers with housing removed and display towards the left.

**Potential free contact:**

+12V CNT COM



**Note :** The above connection is valid when selection is NPN

**NPN / PNP Sensor:**

