TCN Series Counter Instruction Manual



Features:

High quality microprocessor for the main control
High precise measuring and high anti-interference
Power fail memory function
4 or 6 digit display for option
With F, R, N, C output modes

I. Ordering code

TCN-	B: Thumb switch	
	1:1 segment preset	
	4:4 digit display 6:6 digit display	
	P : Preset	
	TCN series digittal counter	

Model	Size	LED digit	Preset	Thumb switch
TCN-P41B	72W*72H	4	1 segment preset	Domestic
TCN-P61B	72W*72H	6	6 1 segment preset	

II. Specification

AC/DC 100~240V (DC 24V can be ordered)
< 5W
0~15 seconds
DC 24V±2V 50mA
≥100MΩ
2.0KV/1M
electrical source ±4000V import ±2000V
10 years
0~50°C 30~85%RH
Square wave, Sine wave and pulse
≥10KΩ
1000cps
AC 250V/3A or DC 30V/5A

III. Dimension







Note: unit (mm)

IV. Operation instruction

1. The input wire should not be too long, better be shielded. Don't use the instrument in the ambient humidity > 90%RH or strong acid.

In case the vibration of input signal is too strong, please connect a 10UF~33UF capacitor filter in parallel to the input terminal of the instrument.
 In the occasions of withstand voltage test on electrical circuit and Uncharged metal, please remove or short circuited the counter from the

circuit. (Otherwise, the CMOS circuit could be damaged).

4. To ensure the normal service life of dial switch and other components, please prevent dust from entering the instrument.

V. Operations

1. The display and keys on the panel as the illustrate

2. TIM key is to modify the delay time. When the delay time is 0, press TIM key the first time, delay time will be increased to 0.2s; press it the second time, delay time will be increased to 0.4s (0.2 and 0.4 second is still displayed as 0); press it the third time, delay time will be increased to 1s, display as 1; since then, each press will increase 1 second till to 15 senconds.

3. Press OUT key for 3 seconds to enter the output mode to selecting estate. Press OUT key to select F, N, R,C, the relative lamp of F, N, R, C will be on. Stop pressing OUT key for 3s, it will confirm and exit automatically.



F, N mode no delay time setting					
Delay time display	Actual delay time (S)	Delay time display	Actual delay time (S)		
0	0 ; 0.2 or 0.4	8	8		
1	1	9	9		
2	2	Ä	10		
3	3	6	11		
4	4		12		
5	5	d	13		
6	6	Ē	14		
7	7	Blank screen	15		

VI. Counter output mode diagram

4 kinds of relay output modes for option: F, N, R, C.



VII. Wire connection and connecting method with proximity sensor



Note: Please subject to the connection drawing on the counter if any changes.