

TAC7-6116 is a Multi-Function Digital Counter. 6-digit preset with 6 digit totalizer. 16 operation modes for synchronous counting or accumulative total. Prescale in dividable for 1 to 9999 and multiplier from 0.00001 to 10.0 and decimal point setting. 4 Counting modes for different applications, Input hardware setting for different sensors.

Applications :

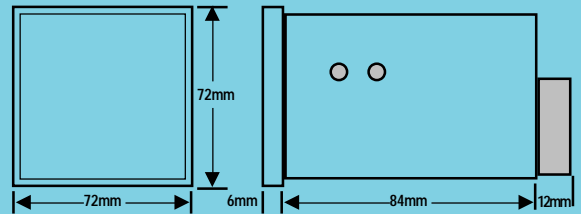
- Counting Control with Totalizer
- Length control with Total Length
- Length control with Quantity
- Flow control with Tubs counting



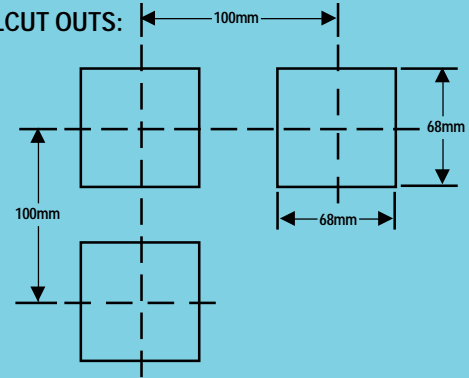
Specifications :

- Upper Display : -99999-9999990.3'(7.62mm) red LED.
- Lower Display : -99999-9999990.3'(7.62mm) green LED.
- Preset Value : 0-999999 (0 = non-control) .
- Counting Speed : 10,000 cps (Logic Input) 30 cps (Contact Input).
- Input Signal : NPN / PNP (or Open collector).
- Signal Level : CMOS (HI 7.5-30V / LO 0-4V); TTL (HI 4-30V / LO 0-1V)
- Counting Mode : 4 modes .
- Operating mode : 16 modes
- Output Component : Relay Output (1C), 250VAC/3A (Resistance);
Transistor Output (30V/60mA Max.) .
- Operation Tempature : 0-50°C.
- Operation Humidity : 45-85%RH.
- Storage Environment : -20-60°C; 35-90%RH.
- Degree of Protection : IP65.
- Input Power : AC110V; AC220V.
- Output Power : DC 12V/30mA Output for sensor.

DIAMENSIONS:

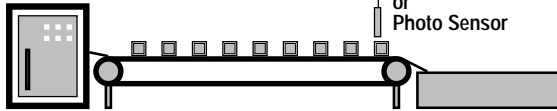


PANELCUT OUTS:



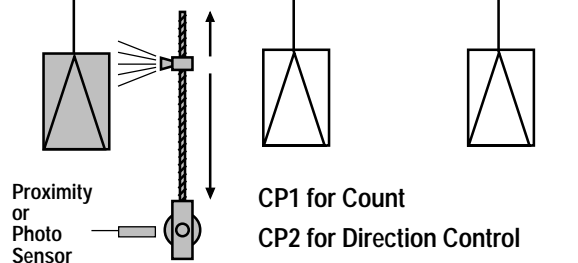
Typical Application:

Count Measuring



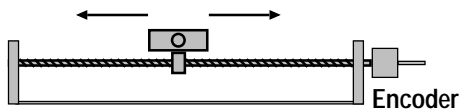
- CP1 for Count up
- CP2 for Count down
- Scale Factor = 1

Motion Control



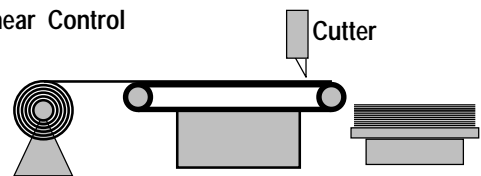
- CP1 for Count
- CP2 for Direction Control

Position Control



- CP1; CP2 for Count up/down (Quadrature) x4
- Scale Factor = 0.001-10.000
- if S.F = 0.25 then A,B phace 1 cycle = 1

Shear Control



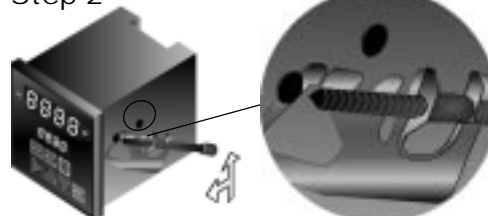
- CP1; CP2 for Count up/down (Quadrature) x4
- or CP1 Count up

Panel Mounting:

Step 1

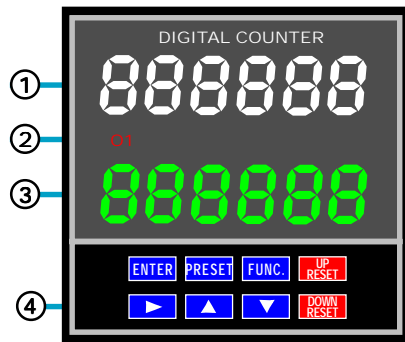


Step 2



Step 3





Panel Description:

- ① Red Display: Present Value & Functions.
- ② Output LED(O1;O2): Output Active Indicator.
- ③ Green Display: Set Value & Function's Value.
- ④ Key-Button: Run Setting Functions.

Key-Function description:

ENTER	After completing preset function press this key to save new setting value. If not press this key will be auto-save on no key-press in 10 seconds.
PRESET	Direct press this key for Preset-1 / Preset-2 setting functions. In other function press this key for change functions setting .
FUNC.	press this key with key for setting functions d-t / S-F / S-d . press this key with key for setting functions d-P / P-c / r-t .
	press this key for shift right flash digit .
	press this key for increase flash digit (add 1).
	press this key for decrease flash digit (sub. 1).
RESET	press this key(r-t=0~9) for reset count value or restore P-c value to display (count value).

Preset program procedure description :

Press button **PRESET** to active Preset-Batch function.



then press button to sift right the flah digit; press button to increase 1 in flah digit; press button to decrease 1 in flah digit.

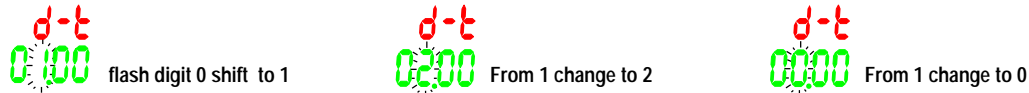


press button **ENTER** to exit this function and save new setting .

Press button **FUNC.** + to active d-t, then press **PRESET** change to S-F, next press **PRESET** change to S-d, loop.

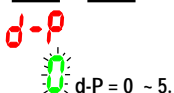


then press button to sift right the flah digit; press button to increase 1 in flah digit; press button to decrease 1 in flah digit.



press button **ENTER** to exit this function and save new setting .

Press button **FUNC.** + to active d-P.



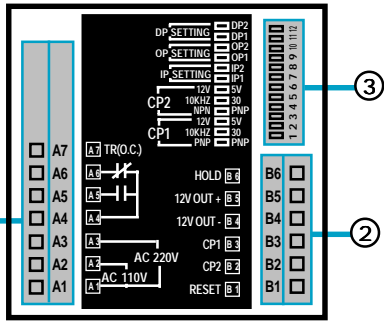
if press button will be no change; press button to increase 1 in flah digit; press button to decrease 1 in flah digit.



press button **ENTER** to exit this function and save new setting .

Function description :

<p>P-b 234560</p>	<p>Preset-1 : P-b for Set point compare with counting value, setting rage from 0 ~ 999999. Press PRESET button to active this function. When counting active this point the OUTPUT (On or OFF) will active</p>
<p>d-t 0200</p>	<p>Delay Time : d-t for Output auto-reset time delay, setting rage from 0.01 ~ 99.99 seconds. Press FUNC. + ▶ button 2nd times to active this function, loop active. None use time delay 1 Operate Mode (Mode 7,8,15).</p>
<p>S-F 200000</p>	<p>Scale Factor : S-F for Count Input pulse scale, setting rage from 0.00001 ~ 10.0 (0.00000 = 10.0). Press FUNC. + ▶ button 3rd times to active this function, loop active. This scale for count input CP1 & CP2; count up and count down.</p>
<p>S-d 0001</p>	<p>Scale Divider : S-F for Count Input pulse scale, setting rage from 0.00001 ~ 10.0 (0.00000 = 10.0). Press FUNC. + ▶ button 4th times to active this function, loop active. This scale for count input CP1 & CP2; count up and count down.</p>
<p>d-P 0</p>	<p>Decimal-Point : S-F for Count Input pulse scale, setting rage from 0.00001 ~ 10.0 (0.00000 = 10.0). Press FUNC. + ▲ button 1st times to active this function, loop active. 0 d-P=0 0.0 d-P=1 0.00 d-P=2 0.000 d-P=3 0.0000 d-P=4 0.00000 d-P=5</p>

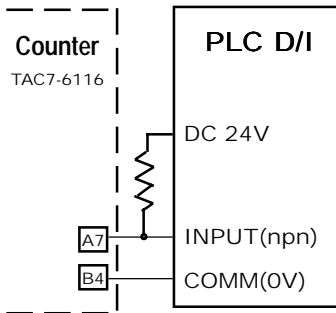


Front Panel Descriptions:

- ① 7-Pin Terminal Block:
Power Input AC110V connect to PIN-A1,A2; AC220V connect to PIN-A1,A3.
Relay Out PIN-A4(COMM); A5(NO); A6(NC).; Transistor Output PIN-A7(NPN O.C.).
- ② 6-Pin Terminal Block:
PIN-B3 for Count-Input 1 (CP1); PIN-B2 for Count-Input 2 (CP2).
PIN-B1 for Remote Reset; PIN-B6 for Count Inhibit Control (Short with PIN-4 Active).
- ③ DC Power Output PIN-B4 is DC 0V; PIN-B5 is DC12V (40mA for SENSOR).
12-Pin DIP SW. :
PIN-1-3 for Setting CP1; PIN-4-6 for Setting CP2.
PIN-7,8 for Count Mode Setting (4-Modes)
PIN-9-12 for Output Operation Mode Setting (16-Modes)

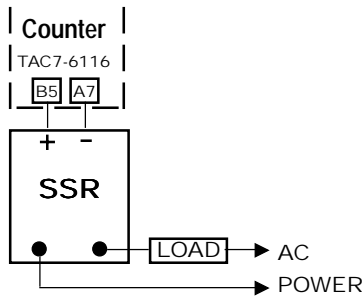
Transistor Output PIN-A7(NPN) for OutPut Expanding Connectiona :

1. to PLC :



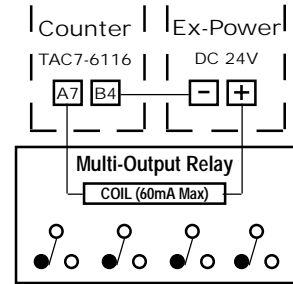
Counter Output OFF, PLC Input = DC 24V.
Counter Output ON, PLC Input = DC 0V.

2. to SSR :



Counter Output OFF, SSR OFF.
Counter Output ON, SSR ON.

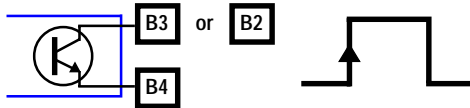
3. Multi-Output Relay Connections:



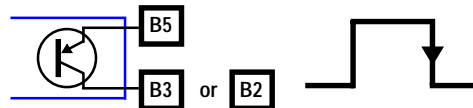
External power 5~30VDC.
Output ON Relay ON; Output OFF Relay OFF.

12-Pin DIP SW. Pin-1~3(CP1); Pin-4~6(CP2) Input Operating Selections :

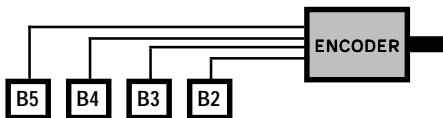
PIN-1 OFF(CP1); PIN-4 OFF(CP2), NPN INPUT.



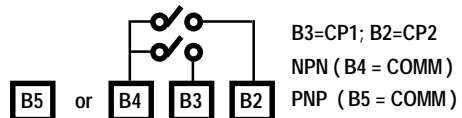
PIN-1 ON(CP1); PIN-4 ON(CP2), PNP INPUT.



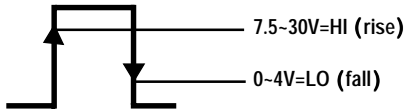
PIN-2 OFF(CP1); PIN-5 OFF(CP2), LOGIC INPUT.



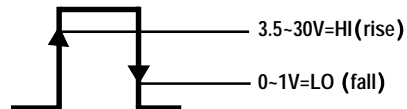
PIN-2 ON(CP1); PIN-5 ON(CP2), CONTACT INPUT.



PIN-3 OFF(CP1); PIN-6 OFF(CP2), 12-LEVEL INPUT.

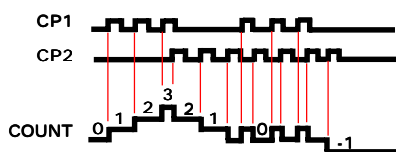


PIN-3 ON(CP1); PIN-6 ON(CP2), 5V-LEVEL INPUT.

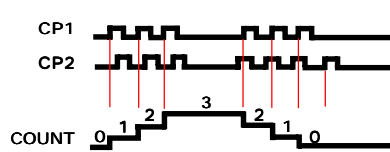


12-Pin DIP SW. Pin-7,8 for Count Mode Sections :

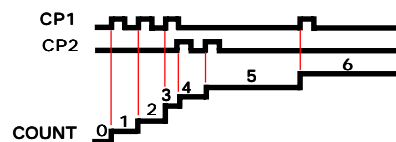
PIN-7 OFF; PIN-8 OFF, CP1 Count UP; CP2 Count Down.



PIN-7 ON; PIN-8 OFF, CP1 Counting; CP2 Count Direction Control



PIN-7 OFF; CP1 Count UP; CP2 Count Up too.



PIN-7 ON; PIN-8 ON, CP1; CP2 Quadrature x4 .

