

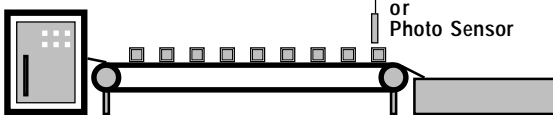
**SPECIFICATIONS:**

- Digital Display : PV(6-digit, 0.3" high red LED); SV(6-digit, 0.3" high green LED).
- Input Power : AC 110V/220V (+/-10%) 50/60 Hz.
- Sensor Power : DC 12V, 40mA.
- Frequency Response : 10,000 Pulse / Sec.
- Count Range : -99999 ~ 999999.
- Counting Mode : Add / Sub; Count / Direction Control;  
(CP1;CP2) Add / Add; Quadrature(x4).
- Count Input Set-Up : NPN(Pullhigh resistor); PNP(Pull low resistor) Seleccionable.  
Logic(10KHz); Contact(100Hz) Selectable.  
CMOS(12V); TTL(5V) level Selectable.
- Input Pulse Divider : Programmable 0~9999.
- Input Scale Factor : 0.00001 ~ 10.00000.
- Operation Function: 1 Modes setting by DIP switch.
- Control Output : 1 Relay(Form C); 1 Solid-state.
- MemoryRetention : No power EEprom.
- Operating Temperature : 0~50 °C.
- Storage Temperature : -10~60 °C.



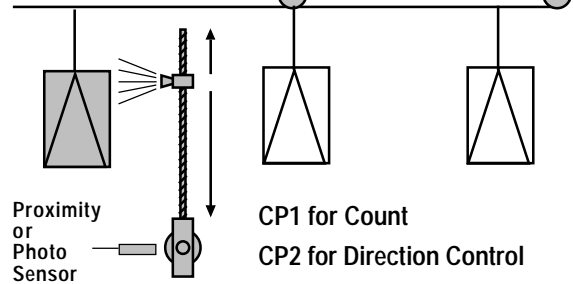
**Typical Application:**

**Count Measuring**



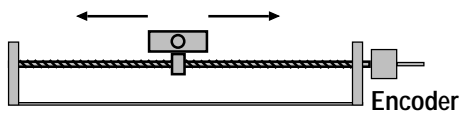
CP1 for Count up  
CP2 for Count down  
Scale Factor = 1

**Motion Control**



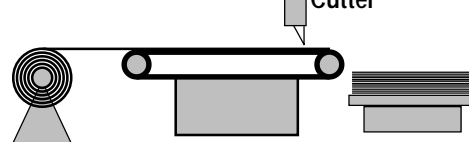
Proximity or Photo Sensor  
CP1 for Count  
CP2 for Direction Control

**Position Control**



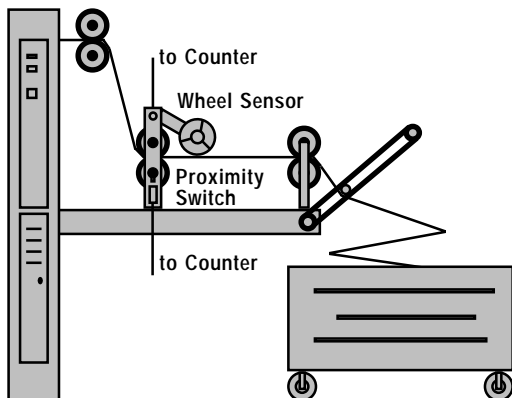
CP1; CP2 for Count up/down (Quadrature) x4  
Scale Factor = 0.001~10.000  
if S.F = 0.25 then A,B phase 1 cycle = 1

**Shear Control**



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

**Length Control**



**Lost Cost Length-Control :**

Use Proximity-Switch or Photo-Sensor to substitute Wheel Sensor.

The Counter's Scale-Factor function let each pulse input response real length.

Ex: The roller 1 Revolution for 325.34mm.

The S.F. set on 0.325 then the unit will be 1-Meter

Display will show : 32 for 100 revolution.

Display will show : 325 for 1000 revolution.

Display will show : 3253 for 10000 revolution.



**Key-Function description:**

|               |  |
|---------------|--|
| <b>ENTER</b>  | After completing preset function press this key to save new setting value.<br>If not press this key will be auto-save on no key-press in 10 seconds. |
| <b>PRESET</b> | Direct press this key for Preset-1 / Preset-2 setting functions.<br>In other function press this key for change functions setting .                  |
| <b>FUNC.</b>  | press this key with <b>▲</b> key for setting functions d-t / S-F / S-d .   |
| <b>▶</b>      | press this key for shift right flash digit .   |
| <b>▲</b>      | press this key for increase flash digit ( add 1 ).   |
| <b>▼</b>      | press this key for decrease flash digit ( subtract. 1 ).   |
| <b>RESET</b>  | press this key for reset count value .   |

Example: P-1=1000; P-2 =2000. Now we want change P-2 to 2500.

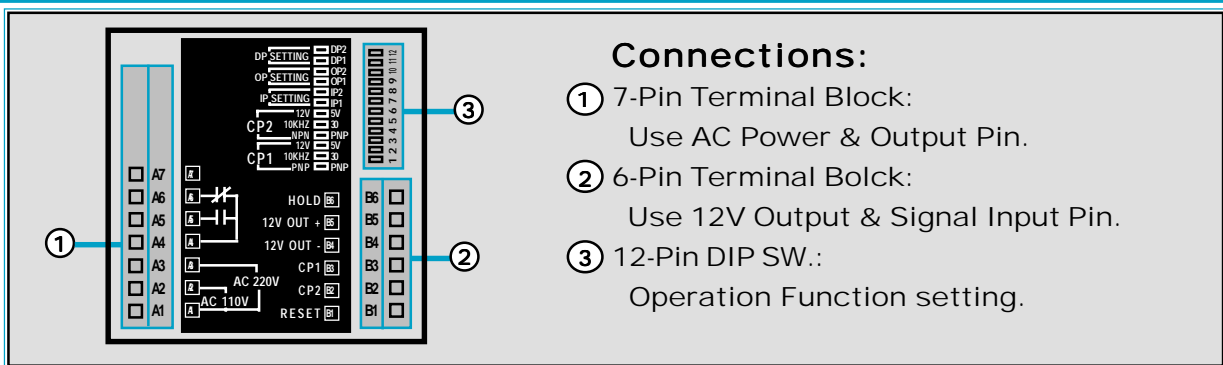
1<sup>th</sup>-Press **PRESET** show: P-1 2<sup>nd</sup>-Press **PRESET** show: P-2 Then press **▶** key 2-times to shift digits P-2  
 001000                      002000                      002000  
 Then press **▲** key 5-times to increase flashing digit setting value. P-2  
 Then press **ENTER** key to save new value.                      002500

Example: d-t =1.00; S-F = 1.0. S-d = 1. Now we want change S-d to 4

Press **FUNC.** + **▶** for setting Delay-Time / Scale Factor / Divider Setting 3 Functions.  
 show: d-t then press **PRESET** show S-F then press **PRESET** again show S-d  
 0 100                      100000                      0008  
 set delay-time                      set pre-scale                      set divider  
 0.01~99.99 seconds                      0.00001~10.0                      1~9999  
 Then press **▼** key 4-times to decrease flashing digit setting value to 4. S-d  
 Then press **ENTER** key to save new value.                      0004

Example: d-t =1.00; S-F = 1.0. S-d = 1. Now we want change S-F to 0.5

Press **FUNC.** + **▶** for setting Delay-Time / Scale Factor / Divider Setting 3 Functions.  
 show: d-t then press **PRESET** show S-F then press **▶** show S-F then press **▼** show S-F  
 0 100                      100000                      100000                      000000  
 set delay-time                      set pre-scale                                                                 
 0.01~99.99 seconds                      0.001~9.999                                                                 
 then press **▶** show S-F then press **▼** (or **▲**) 5-times show S-F  
 000000                      050000  
 Then press **ENTER** key to save new value.



**Connections:**

- ① 7-Pin Terminal Block:  
Use AC Power & Output Pin.
- ② 6-Pin Terminal Block:  
Use 12V Output & Signal Input Pin.
- ③ 12-Pin DIP SW.:  
Operation Function setting.

**7-Pin Terminal Block Connections:**

- 1. Input Power AC110V Connect to PIN-A1,A2.
- 2. Input Power AC220V Connect to PIN-A1,A3.
- 3. Relay Output PIN-A4(COMM);A5(NO);A6(NC).
- 4. Solid-State Output, PIN-A7 (NPN Open-Collect).

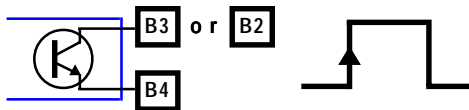
**6-Pin Terminal Block Connections:**

- 1. PIN-B1 remote reset (Active with B4).
- 2. PIN-B2 Count Input CP2.
- 3. PIN-B3 Count Input CP1.
- 4. PIN-B4 DC0V (40mA Supply for SENSOR).
- 5. PIN-B5 DC12V(40mA Supply for SENSOR).
- 6. PIN-B6 to Count Inhibit (Active with B4).

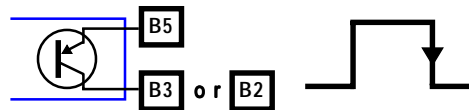
**12-Pin DIP SW.Preset:**

- PIN-1-6 Input CP1,CP2 setting;
- PIN-7-8 Count Mode setting;
- PIN-9-10 Operation Mode setting.
- PIN-11-12 Decimal Point setting.

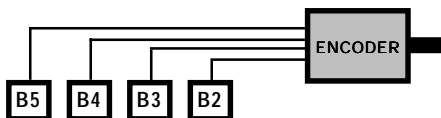
Pin-1(CP1);4(CP2)-OFF, NPN INPUT.



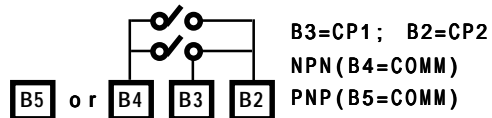
Pin-1(CP1);4(CP2)-ON, PNP INPUT.



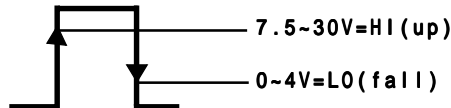
Pin-2(CP1);5(CP2)-OFF, LOGIC INPUT.



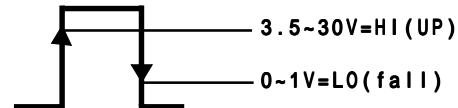
Pin-2(CP1);5(CP2)-ON, CONTACT INPUT.



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

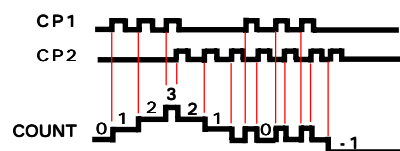


Pin-3(CP1);6(CP2)-ON, 5V-LEVEL INPUT.

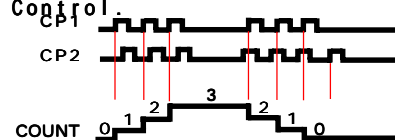


**12-Pin DIP SW. Pin-7,8 Counting Mode:**

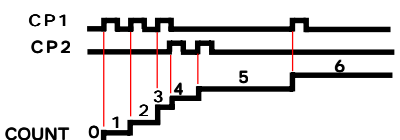
7-OFF;8-OFF, CP1 Add; CP2 Sub.



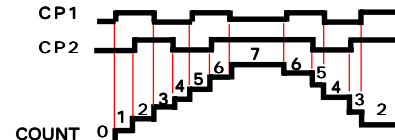
7-ON;8-OFF,CP1 count; CP2 Direction Control.



7-OFF;8-ON, CP1 Add; CP±Add.

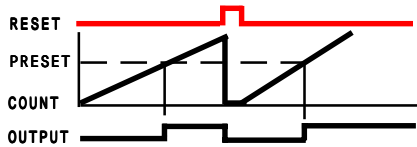


7-ON;8-ON, CP1; CP±j@Quadrature.

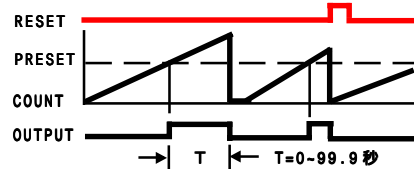


12-Pin DIP SW. Pin-9,10. for 4-Modes Operation Setting:

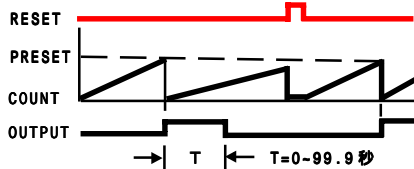
(MODE-0) 9-OFF;10-OFF.  
Latch output at preset value.  
Manual reset output & reset counting zero.



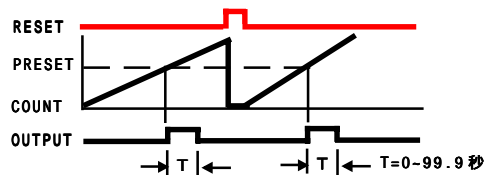
(MODE-1) 9-ON;10-OFF.  
Latch output at preset value.  
Automatic reset to zero and output after delay timer up.



(MODE-2) 9-OFF;10-ON.  
Latch output at preset value (with re-  
set counting to zero).  
Automatic reset output after delay  
timer up.



(MODE-3) 9-ON;10-ON;11-OFF.  
Output automatic Reset After Delay-  
Timer up.  
counting not reset to zero.



12-Pin DIP SW. Pin-11,12. for Decimal Point Setting:

11-OFF;12-OFF

0

11-ON;12-OFF

0.0

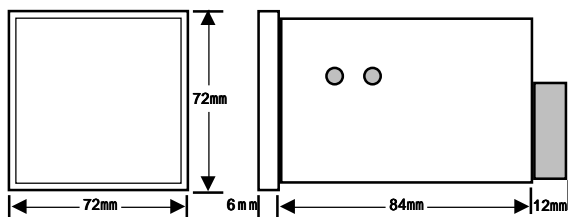
11-OFF;12-ON

0.00

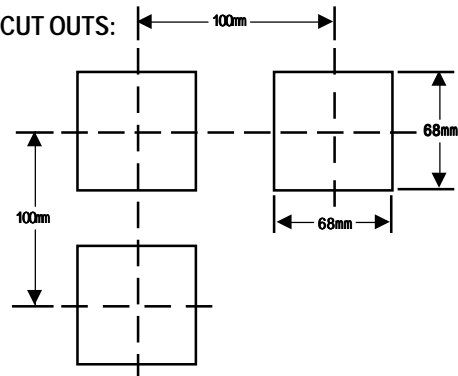
11-ON;12-ON

0.000

DIAMENSIONS:



PANELCUT OUTS:

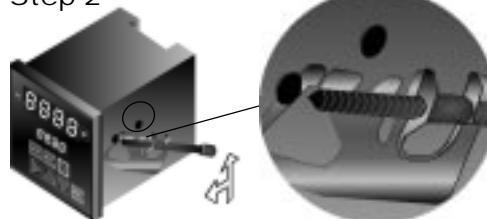


Panel Mounting:

Step 1



Step 2



Step 3

