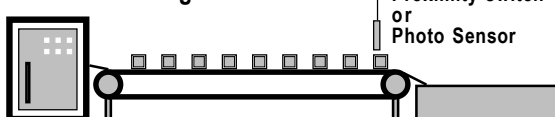
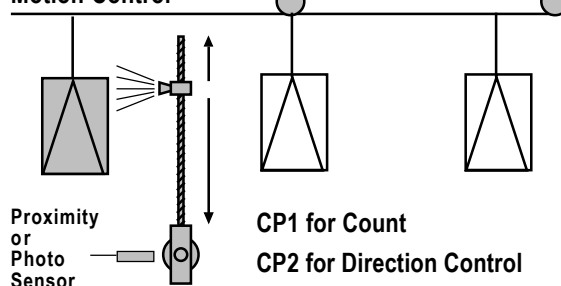
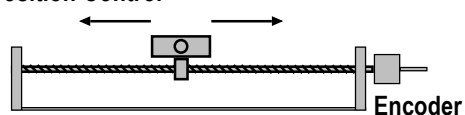


SPECIFICATIONS:

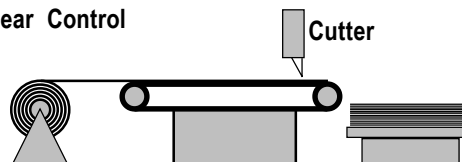
- Digital Display ■ PV(4-digit, 0.56" high red LED); SV(4-digit, 0.3" high green LED).
 Input Power ■ AC 115V/230V (+/-10%) 50/60 Hz.
 Sensor Power ■ DC 12V, 40mA.
 Frequency Response ■ 10,000 Pulse / Sec.
 Count Range ■ -999 ~ 9999.
 Counting Mode ■ Add / Sub; Count / Direction Control;
 (CP1;CP2) Add / Add; Quadrature(x4).
 Count Input Set-Up ■ NPN(Pullhigh resistor); PNP(Pull low resistor) Selectable.
 Logic(10KHz); Contact(100Hz) Selectable.
 CMOS(12V); TTL(5V) level Selectable.
 Input Pulse Divider ■ Programmable 0~9999.
 Input Scale Factor ■ 0.001 ~ 10.000.
 Operation Function ■ 4 Modes setting by DIP switch.
 Control Output ■ 1 Relay(Form C); 1 Solid-state.
 Memory Retention ■ No power EEprom.
 Operating Temperature ■ 0~50 °C.
 Storage Temperature ■ -10~60 °C.

**Typical Application:****Count Measuring**

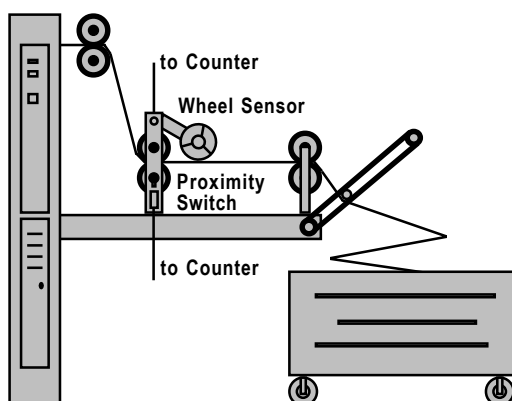
CP1 for Count up
 CP2 for Count down
 Scale Factor = 1

Motion Control**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.

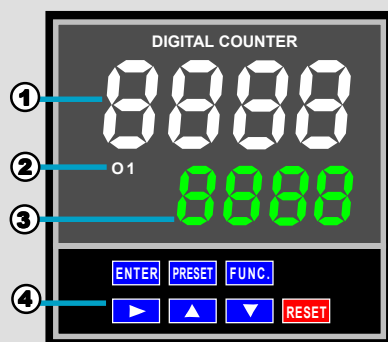
Ex: The roller 1 Revolution for 325mm.

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 : 3250 for 10000 revolution.

**Panel Description:**

- ① **Red Display: Present Value & Functions.**
- ② **Output LED(O1): 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 for shift right flash digit .
	press this key for increase flash digit (add 1).
	press this key for decrease flash digit (subtract. 1).
RESET	press this key for reset count value .

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

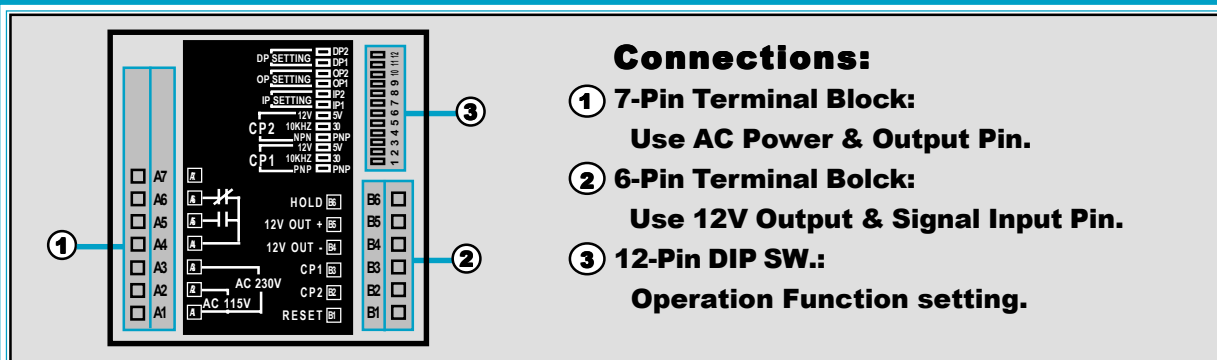
1th-Press **PRESET** show: 2nd-Press **PRESET** show: Then press key 2-times to shift digits
Then press key 5-times to increase flashing digit setting value.
Then press **ENTER** key to save new value.

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: then press **PRESET** show then press **PRESET** again show
set delay-time set pre-scale set divider
0.01~99.99 seconds 0.001~9.999 1~9999
Then press key 4-times to decrease flashing digit setting value to 4.
Then press **ENTER** key to save new value.

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: then press **PRESET** show then press show then press show
set delay-time set pre-scale
0.01~99.99 seconds 0.001~9.999
then press show then press (or) 5-times show
Then press **ENTER** key to save new value.

**7-Pin Terminal Block Connections:**

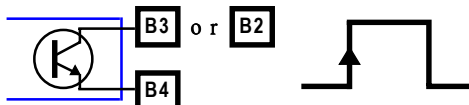
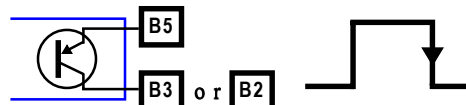
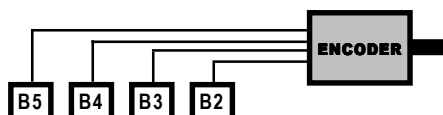
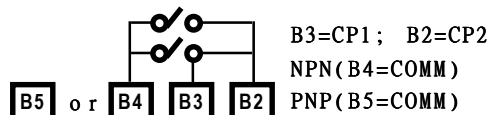
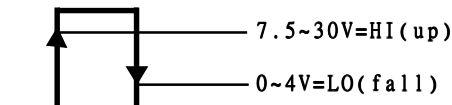
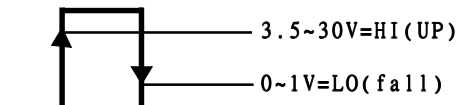
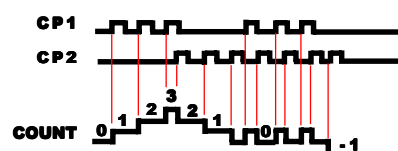
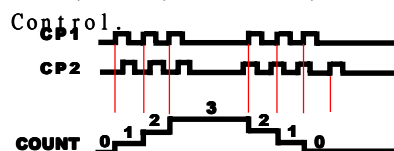
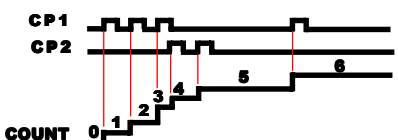
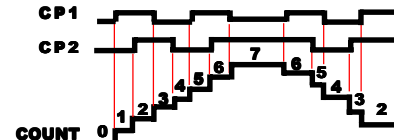
1. Input Power AC115V Connect to PIN-A1,A2.
2. Input Power AC230V Connect to PIN-A1,A3.
3. Relay Output PIN-A4(COMM);A5(NO);A6(NC).
4. Solid-State Output, PIN-A7 (NPN Open-Collect).

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).

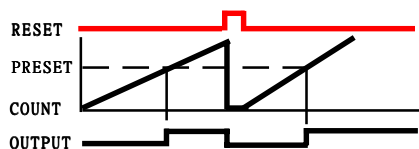
12-Pin DIP SW.Preset:

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.

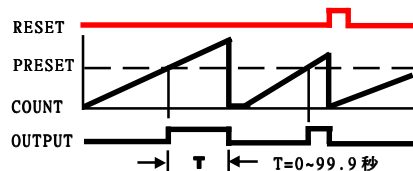
Pin-1(CP1);4(CP2)-OFF, NPN INPUT.**Pin-1(CP1);4(CP2)-ON, PNP INPUT.****Pin-2(CP1);5(CP2)-OFF, LOGIC INPUT.****Pin-2(CP1);5(CP2)-ON, CONTACT INPUT.****Pin-3(CP1);6(CP2)-OFF, 12-LEVEL INPUT.****Pin-3(CP1);6(CP2)-ON, 5V-LEVEL INPUT.****12-Pin DIP SW. Pin-7,8 Counting Mode:****7-OFF;8-OFF, CP1 Add; CP2 Sub.****7-ON;8-OFF,CP1 count; CP2 Direction****7-OFF;8-ON, CP1 Add; CP2±Add.****7-ON;8-ON, CP1; CP2±@Quadrature.**

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

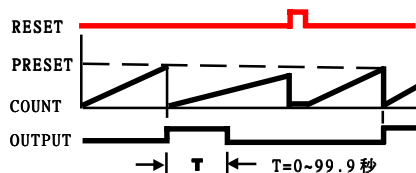
(MODE-0) 9-OFF;10-OFF.
Latch output at preset value.
Manual reset output & reset counting zero.



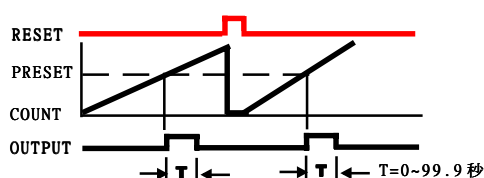
(MODE-1) 9-ON;10-OFF.
Latch output at preset value.
Automatic reset to zero and output after delay timer up.



(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

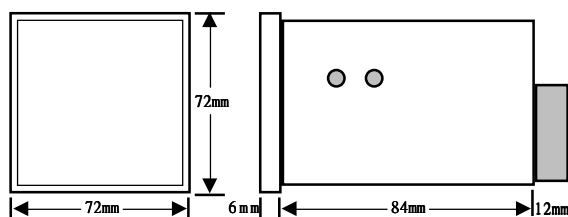
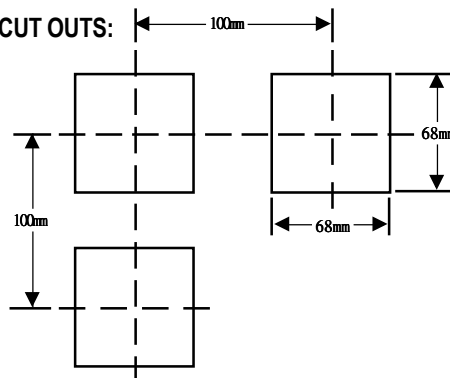
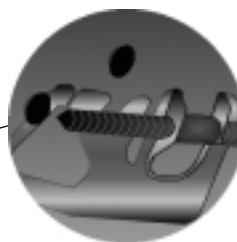
0.0

11-OFF;12-ON

0.00

11-ON;12-ON

0.000

DIAMENSIONS:**PANELCUT OUTS:****Panel Mounting:****Step 1****Step 2****Step 3**