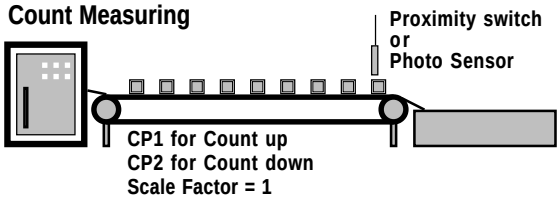
SPECIFICATIONS:

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) Selecable.
	Logic(10KHz); Contact(100Hz) Selectable.
	CMOS(12V); TTL(5V) level Selectable.
Input Pulse Divider :	Programmable 0~9999.
Input Scale Factor :	0.00001 ~ 10.0.
Operation Function:	8 Modes setting by DIP switch.
Control Output :	2 Relay(Form C); 2 Solid-state.
MemoryRetention :	No power EEprom.
Operating Temperature :	0~50 °C.
Storage Temperature :	-10~60 °C.

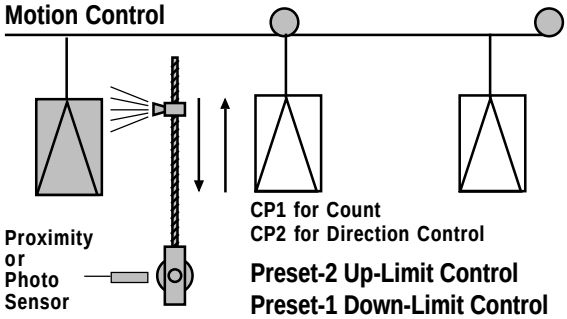
Typical Application:

Count Measuring



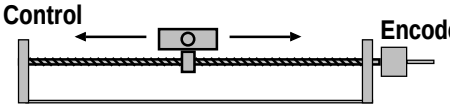
Count to Preset-1 Cunveyer slow down,
Count to Preset-2 Cunveyer stop (and auto-reset),
next step or next cycle.

Motion Control



Preset-2 Up-Limit Control
Preset-1 Down-Limit Control

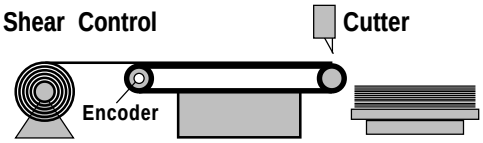
Position Control



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

Count to Preset-1 Cunveyer slow down,
Count to Preset-2 Cunveyer stop (and auto-reset),
next step or next cycle.

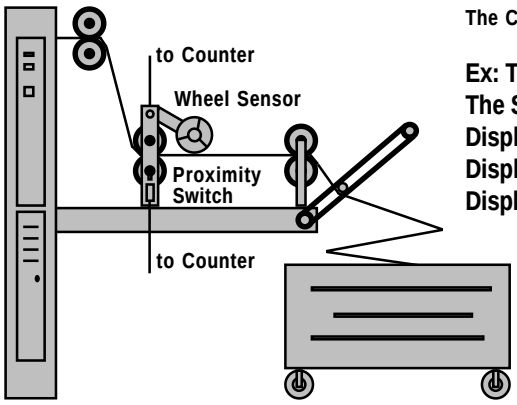
Shear Control



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

Count to Preset-1 Cunveyer slow down,
Count to Preset-2 Cunveyer stop (and auto-reset),
next step or next cycle.

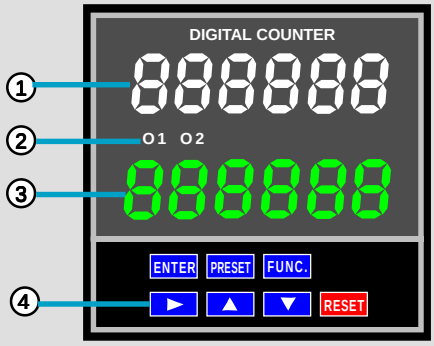
Length Control



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 325.3mm.
The S.F. set on 0.3253 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.

Count to Preset-1 to bend left
Count to Preset-2 to bend rigit



Panel Description:

① Red Display: Present Value & Functions.
② Output LED(O1;O2): Output Active Indicator.
③ Green Display: Set Value & Fuction¡¦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).

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

1th-Press PRESET show: P-1 1000 2nd-Press PRESET show: P-2 2000 Then press ► key 2-times to shift digits P-2 2000

Then press ▲ key 5-times to increase flashing digit setting value. P-2 2500

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: d-t 0.1.00 then press PRESET show S-F 1.00000 then press PRESET again show S-d 0008

set delay-time 0.01~99.99 seconds

set pre-scale 0.00001~10.0

set divider 1~9999

Then press ▼ key 4-times to decrease flashing digit setting value to 4. S-d 0004

Then press ENTER key to save new value.

** When DIP SWITCH PIN-12 ON Pre-scale & Divider will be not to change **

Example: d-P=0; P-c = 1000. r-t = 1. Now we want change r-t to 5 (press RESET key 5-times to reset count value)

Press FUNC. + ► for setting Delay-Time/Scale Factor/Divider Setting Function.

show d-P 0 then press PRESET show P-c 1000 then press PRESET show r-t 0

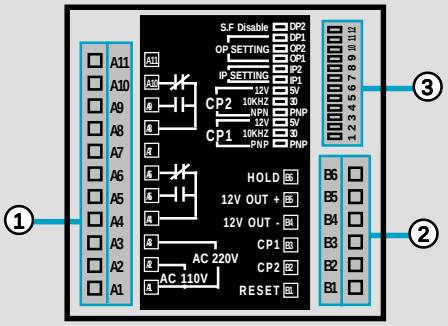
set decimal point (0~3)

set present-count retrieve (0~9999)

set RESET-key press-times (0~9)

Then press ▲ key 5-times to increase flashing digit setting value to 5. r-t 5

Then press ENTER key to save new value.



Connections:

1. 11-Pin Terminal Block:
   Use AC Power & Output Pin.
2. 6-Pin Terminal Bolck:
   Use 12V Output & Signal Input Pin.
3. 12-Pin DIP SW.:
   Operation Function setting.

11-Pin Terminal Block Connections:

1. Input Power AC110V Connect to PIN-A1,A2.
2. Input Power AC220V Connect to PIN-A1,A3.
3. Relay 2 Output PIN-A4(COMM);A5(NO);A6(NC).
4. Solid-State 2 Output, PIN-A7 (NPN Open-Collect).
5. Relay 1 Output PIN-A8(COMM);A9(NO);A10(NC).
6. Solid-State 1 Output, PIN-A11 (NPN Open-Collect).

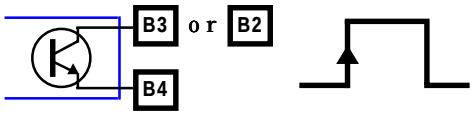
6-Pin Terminal Block Connections:

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:

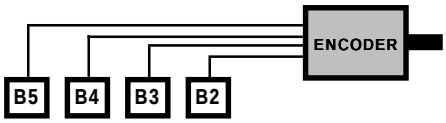
PIN-1~6 Input CP1,CP2 setting;
PIN-7~8 Count Mode setting;
PIN-9~11 Operation Mode setting.
PIN-12 pre-scale & divider disable.

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

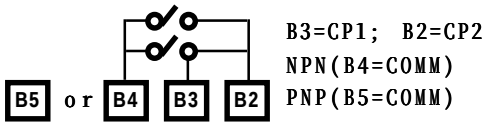


Pin-1(CP1);4(CP2)-ON, PNP INPUT.

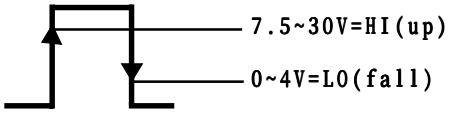
Pin-2(CP1);5(CP2)-OFF, LOGIC INPUT.



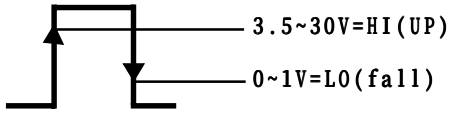
Pin-2(CP1);5(CP2)-ON, CONTACT INPUT.



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

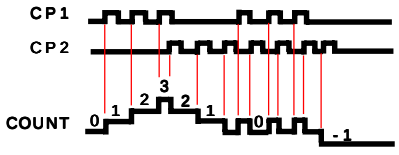


Pin-3(CP1);6(CP2)-ON, 5V-LEVEL INPUT.

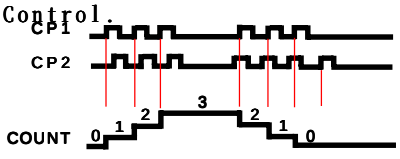


12-Pin DIP SW. Pin-7,8 Counting Mode:

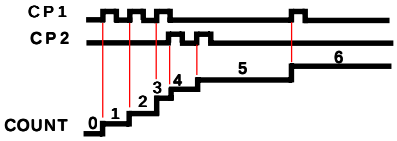
7-OFF;8-OFF, CP1 Add; CP2 Sub.



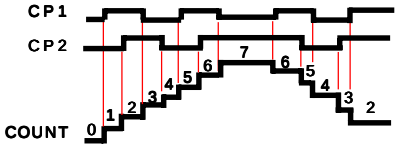
7-ON;8-OFF,CP1 count; CP2 Direction Control.



7-OFF;8-ON, CP1 Add; CP¢±Add.

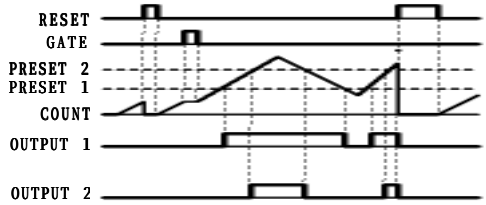


7-ON;8-ON, CP1; CP¢±¡@Quadrature.

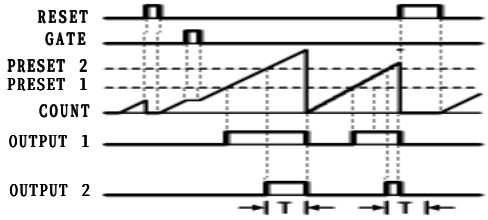


12-Pin DIP SW. Pin-9,10,11. for 8-Modes Operaction Setting:

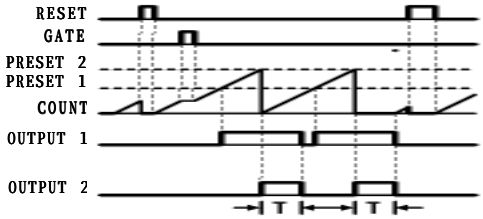
(MODE-0) 9-OFF;10-OFF;11-OFF.
Latch output at preset-1 & preset-2.
Manual reset output & reset counting zero.



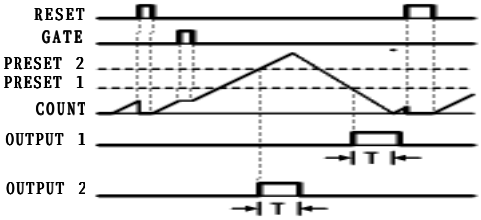
(MODE-1) 9-ON;10-OFF;11-OFF.
Latch output at preset-1 & preset-2.
Automatic reset to zero and output 1&2 after delay timer up.



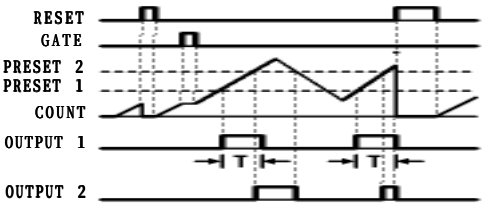
(MODE-2) 9-OFF;10-ON;11-OFF.
Latch output at preset-1 & preset-2 (with reset counting to zero).
Automatic reset output 1&2 after delay timer up.



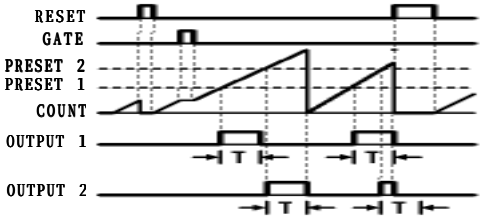
(MODE-3) 9-ON;10-ON;11-OFF.
Output 1&2 automatic Reset After Delay-Timer up.
counting not reset to zero.



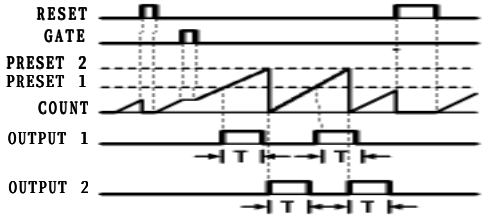
(MODE-4) 9-OFF;10-OFF;11-ON.
output 1 automatic Reset After Delay-Timer up.
Latch output 2 at preset-1(>ON,<OFF).



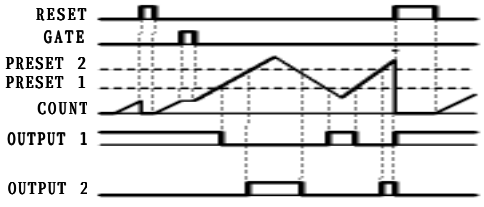
(MODE-5) 9-ON;10-OFF;11-ON.
output 1 automatic Reset After Delay-Timer up.
output 2 automatic Reset with reset counting to zero After Delay-Timer up.



(MODE-6) 9-OFF;10-ON;11-ON.
output 1 automatic Reset After Delay-Timer up.
output 2 active with reset counting to zero and output 2 automatic Reset After Delay-Timer up.



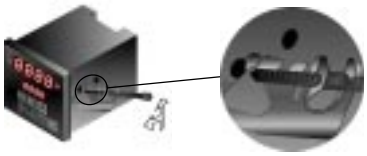
(MODE-7) 9-ON;10-ON;11-ON.Range Compare.
COUNT<P1,OUT1-ON. COUNT>P2,OUT2-ON
P1<COUNT<P2, OUT1-OFF, OUT2-OFF.



Panel Mounting:

Step 1

Step 2



Step 3