

Rating

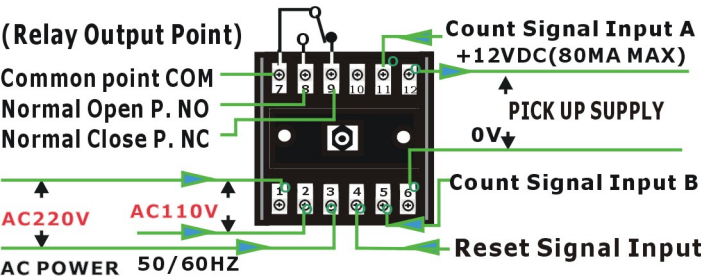
Power Supply	110/220V AC 50/60HZ
Allowable voltage Fluctuation	Operating voltage range: 85-115%
Memory	Re-charge Battery(3.6V)
Display	0.36" Red 7 Segment LED Display
Output Index	0.3" LED Red
Count and Reset Input	Contact Input:By short-circuiting or opening contacts Contactless Input: "H" +6V→+24VDC, "L" 0→2VDC Input Resistance 4.7KΩ
Counting	Counting when OFF →ON, "L" → "H"
Counting Speed	Contact Input:30 cps(max) On Off: 1:1 Contactless Input:1000 cps(max) On Off: 1:1
RESET Method	External and Manual reset (Operating mode: N) Automatic reset (Operating mode : R and C) Please Refer to "Description of Front Panel and Operation Method"
Control Output	Contact type: SPDT 250VAC 10A cos $\phi = 1$ Contactless type: Open collector 12VDC, 11mA max
Power Consumption	Approx. 3.5VA (AC 110 or 220V, 50/60 HZ)
Power source for Sensor	DC 12V 50mA(Permissible ripple factor:5% max)
Ambient temperature	Operating:-10°C↔50°C
Humidity	45-85 RH
Weight	Approx. 600g

Performance

Insulation resistance	50MΩ Or more between conducting terminal
Withstand voltage	AC 2000VAC 1 minute between conducting terminal
Vibration resistance	Mechanical durability:10-50 HZ, 0.1mm double amplitude Malfunction durability:10-50HZ, 0.5mm double amplitude
Impact resistance	Mechanical durability:300 m/s ² (Approx. 50G) Malfunction durability:100 m/s ² (Approx. 10G)
Life of output relay	Electrical life: 1 million times (Switching frequency 30 times/min) Mechanical life:5 million times (Switching frequency 30 times/min)

Terminal Instructions

UP/DOWN COUNTER



Terminal Purpose	Target Object	Terminal/s to Use
Power source	AC 110V	1、2
	AC 220V	1、3
Count signal Input	Contact Point Signal	11、12 and 11、5
	Proximity Switch	12、11、5、6
	Photoelectric Switch	12、11、5、6
	Encoder	12、11、5、6
Manual External Reset	Present Value and Output Run	4、12
Relay Output Point [10A Max]	Common point COM	7
	Normal Open P. NO	8
	Normal Close P. NC	9
Pick up supply	DC +12V(80ma MAX)	12(+12v)、6(0v)

FRONT PART Definition



- 1 · Output Operation Indicator
- 2 · Output Time Adjuster
- 3 · Present Value Display
- 4 · R.N.C Reset function select switch
- 5 · Reset button
- 6 · Preset Value Setting THUMBWHEEL SWITCHS

1 · Output Operation Indicator
When Present Value meets Preset Value, the Output Relay will be triggered and Output Indicator Will be triggered and output indicator will be lit.

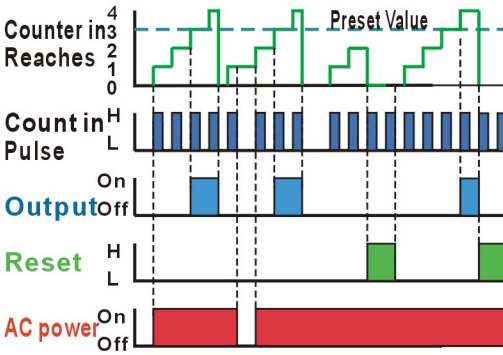
2 · Output Time Adjuster
When the output relay of the counter starts, the Operation durations can be adjusted through The Adjuster, the range of adjustment is 0.1 Through 3.5 sec.

3 · Present Value Display
Red LED 7 segments digital display

4 · R.N.C Reset function select switch
Relay Output will work upon Present Value meets Preset Value in Counter.

R: AUTO RESET

Following an OUTPUT Relay stays 0.1 3.5SEC (As mentioned above: Output Time Adjuster), then both Digit Display and Output will be zero reset at the same time



N: MANUAL RESET:

Following an OUTPUT, Relay stays ON, and both Digital Display and Output will be reset only upon pushing **RESET BUTTON** on the front Panel or making Terminals #12 and #4 short contact.

C: AUTO RESET

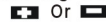
Upon Present Value meets the Preset Value in Counter, the Present Value will be reset right instantaneously and OUTPUT RELAY stays 0.1-3.5SEC then Output will be reset. The consecutive count value will Not be reset.

5 · Reset button

Press this Button to zero reset Present Value, Output Indicator will be out, and Relay Output will be stopped.

6 · Preset Value Setting THUMBWHEEL SWITCHS

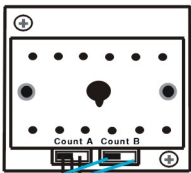
During normal operation, the preset value can be changed by lightly touching a thumbwheel



Mode Switches

Unplug Counter Unit from the Socket, then you will see one switches: **Sw1** And **Sw2**

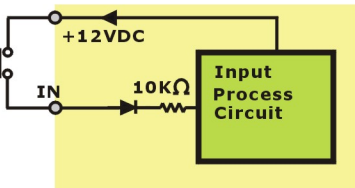
- : 30CPS: to count maximum 30 times per second, when using MicroSwitch and Relay Contact Point; it is a must limit the counting speed so as to prevent any contact point bouncing error.
- : 1000CPS: to count maximum 1000 times per second.



30cps — Sw1 — 1000cps — Sw2

Input Signal (Count/Count Control/Reset) Section

Contact Input



Contactless Input

