

# C-Lin

## HHM1-B Counter

### I. Description

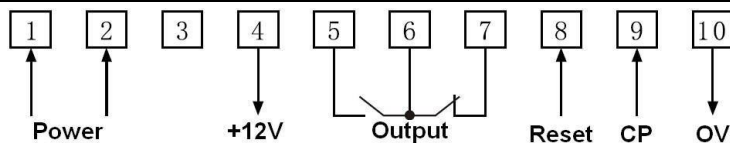
C-Lin 欣灵电气



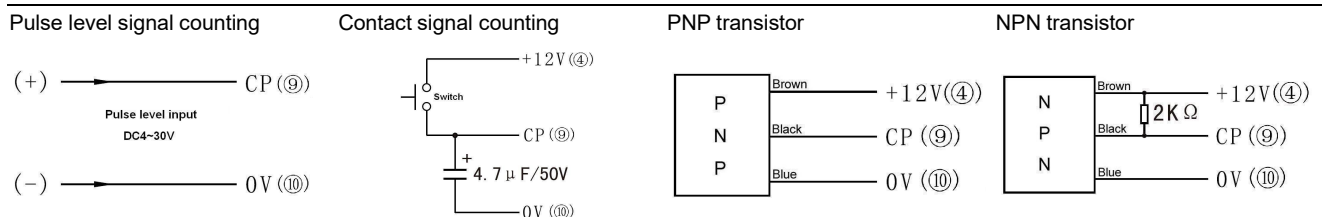
### II. Specification

Rated Supply Voltage	AC24V, 36V, 110V, 220V, 380V 50/60Hz, DC24V(85% to 110% of rated supply voltage)
Input Modes	Increment, Decrement
Counting Speed	High frequency 30~1000 times/s, Low frequency 30 times/s
Counting range	1~999999
Value coefficient	0.001~9.999
Input Signals	Contact signal(Contact and Limit switch) Pulse level signal(H: DC4~30V, L: 0V~DC2V) Sensor signal(NPN, PNP, Hall)
Output Modes	N, C, F
External Power Supply	DC12V 30mA(Max.)
Reset	Button switch and connect terminal 8 and 10
Memory Protection	10 years
Mechanical Life	1000000 operations min.
Electrical Life	100000 operations min. (5 A at 250 VAC/30 VDC, resistive load)
Rated Load of the Contact	5A AC220V(Resistive)
Installation	Flush mounting

### III. Wiring Diagram and Dimension(mm)



### IV. Input Signals

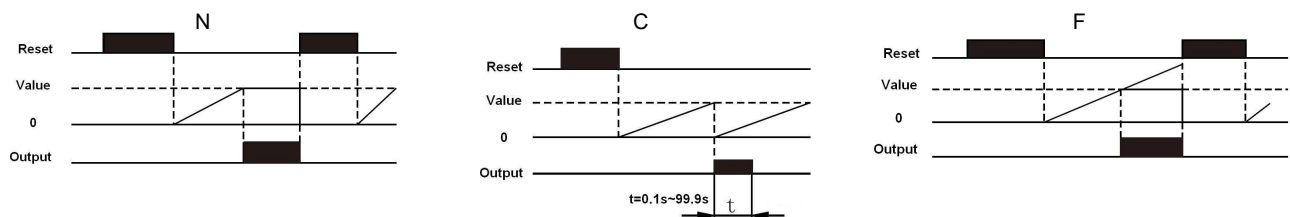


Note 1: For counter the DC6~36V PNP NO type Photoelectric switch or Proximity switch is preferred.

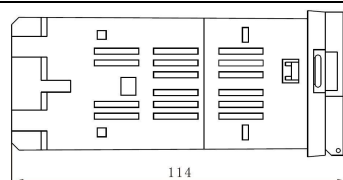
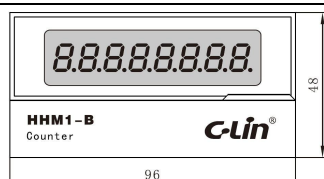
Note 2: If the input signal is contact signal, please connect 4.7 μ F capacitor between CP signal and 0V.

Note 3: If the input signal is NPN transistor, please connect 2KΩ resistor between CP signal and 12V.

### V. Input/Output Mode Settings



### VI. Dimension(mm) and Mounting(92mm\*45.5mm)



## VII. Function Settings

### 1. Button functions

#### ① "M" function button:

Press the "M" key to display: preset number (setting range: 1 to 99999999);

Press and hold the "M" key for 4 seconds to display:

magnitude coefficient, R2, R3, R4, R5;

Description: Quantity coefficient: Setting range 0.0001~9.9999;

R2:

R2----L means low frequency counting (counting frequency  $\leq 30$  times/second);

R2----H means high frequency counting (counting frequency  $\leq 3000$  times/second);

R3:

R3----U means positive count (the count is displayed as 1, 2, 3, 4, 5...);

R3----d means countdown (the count is displayed as 100, 99, 98, 97...);

R4:

R4----N stands for N standard

R4----R stands for R standard

R4----C stands for C standard

R4----H stands for X standard

R4----F stands for F standard

R5:

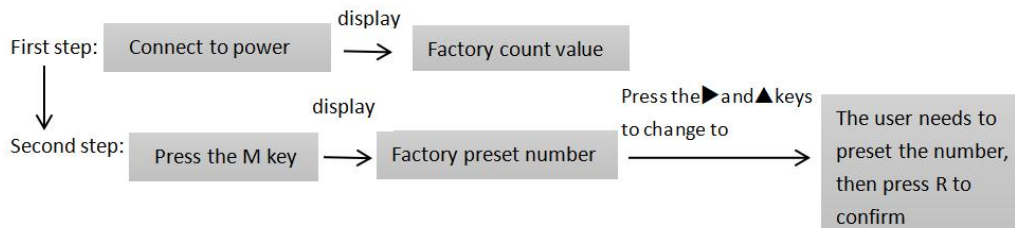
R5---00.0 indicates the automatic reset time (setting range: 0.1 seconds to 99.9 seconds, only for C and R formats);

② "▶" Shift key: Press this key to move the digit, such as the ones place to the tens place or the tens place to the hundreds place, etc.

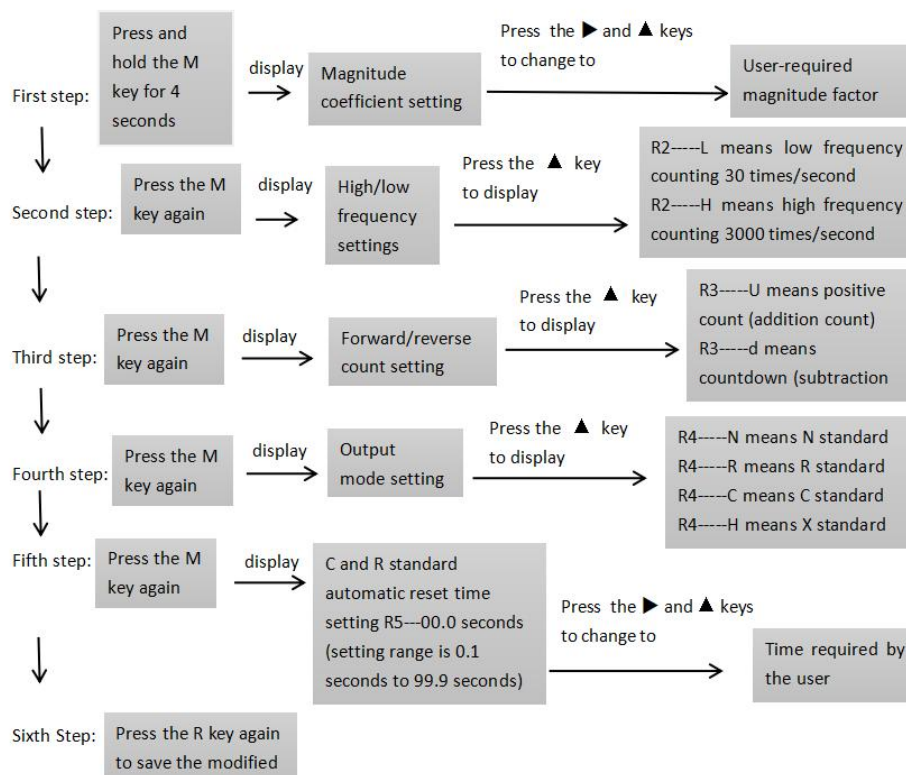
③ "▲" Addition key: Press this key to add the selected number (i.e. the flashing number).

④ "R" reset button: Press this button to reset the displayed numbers and count output status to the initial state.

### 2. Preset number setting



### 3. Parameter setting (there is no fifth step setting for N, F, X formats, only for C and R formats)



#### Example:

The preset number is 111268.88, the magnitude coefficient is 0.2500, the counting signal is high frequency counting, the counting method is positive counting, the output modes are N, F, and C respectively, and the automatic reset time is 15.8 seconds. The display code is as follows:

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## VIII. Instructions for use

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1. The "R" key is both a reset key and a confirmation key. After each parameter setting, you must press this key to confirm before you can work according to the newly set parameters.
2. When counting the contact signal input, if the input contact is poor or bounces back, causing miscounting, please connect a 4.7  $\mu$  F/50V electrolytic capacitor between the counting signal input terminals ⑩ and ⑨, and ⑩ is connected to the negative pole of the electrolytic capacitor, and ⑨ is connected to the positive pole of the electrolytic capacitor.
3. The counting signal input line and the reset control line should be as short as possible, and should avoid being in the same pipe or twisted with other lines such as power lines and power lines. If necessary, please use shielded wires and do not input voltage to the reset terminal to avoid damaging the product.
4. Display accuracy and counting range are related to the value coefficient setting:
  - a) If the value coefficient is set to 0.002, it is accurate to the third decimal place, and its counting range is 0.002~99999.999.
  - b) If the value coefficient is set to 0.2, it is accurate to the first decimal place, and the counting range is 0.2 to 9999999.9.

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## IX. Ordering instructions (products with T format need to be customized, and the normal factory formats are N, C, F, R, and X)

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When ordering, please specify the product model, working voltage, and quantity;

Example: HHM1-B (new model) AC220V 500 pieces

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