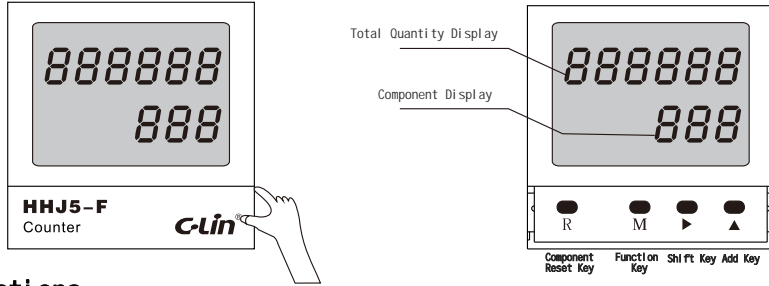


VII. Function Setting

First, use your hand to hook the concave part on the right side of the cover plate (take HHJ5 - F in the lower left figure as an example), gently pull it outward. After opening the cover plate, you will see the right figure below, and then make settings as required.



1. Key Functions

"M" Function Key: Press the "M" key once, and the lower display shows the component quantity setting while the upper display shows the total quantity setting (total quantity setting is only available for HHJ5 - K). Press and hold the "M" key for 4 seconds, and it will display $R1$ - $R2$ in sequence.

Description: $R1$: $R1-00.0$ indicates the component automatic reset time (setting range: 0.1s - 99.9s).

$R2$: $R2---L$ L indicates low - frequency counting (counting frequency 30 times/second)

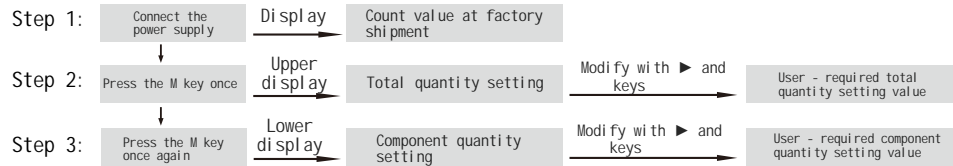
$R2---H$ H indicates high - frequency counting (counting frequency 1000 times/second).

"▶" Shift Key: Press this key to shift digit positions, such as shifting from the hundreds place to the tens place or to the units place.

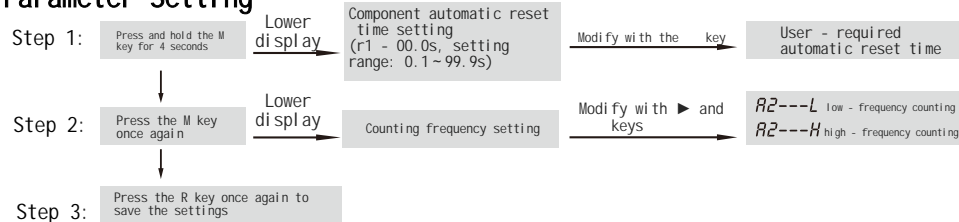
"+" Add Key: Press this key to increment the selected item, enabling incremental changes.

"R" Reset Key: Press this key to reset the component quantity and output status, with no effect on the total quantity.

2. Preset Value Setting (HHJ5 - F has no second - step operation and no total quantity setting)



3. Parameter Setting



Notes: 1) The flashing numbers during the setting process can be modified. Press the R key at any time to save the settings.
2) It is recommended that the total quantity setting be greater than the component quantity.
3) Total quantity reset requires short - circuiting the terminals on the back.

Example: For HHJ5 - F, the component quantity setting value is 400, the automatic reset time is 15 seconds, and the counting signal is high - frequency counting. The display codes are as follows:

400 $R1-15.0$ $R2---H$ Finally, press the R key to save the settings.

Example: For HHJ5 - K, the total quantity setting is 1200, the component quantity setting is 400, the counting signal is high - frequency counting, and the automatic reset time is 15 seconds. The display codes are as follows:

1200 400 $R1-15.0$ $R2---H$ Finally, press the R key to save the settings.

VIII. Usage Instructions

- The "R" key serves as both the reset key and the confirmation key. After each parameter setting, this key must be pressed for confirmation so that the device can operate with the newly set parameters.
- When inputting contact signals, if false counting occurs, first adjust the counting frequency to low - frequency counting. If the result is not satisfactory, connect a $4.7\mu F/50V$ electrolytic capacitor between the counting signal input terminals and , with terminal connected to the negative pole of the capacitor and terminal connected to the positive pole (the capacitor is ineffective when the DIP switch is set to NPN).
- The counting signal input wires and reset control wires should be as short as possible. Avoid routing them in the same tube or cable as power wires or power - line wires. When necessary, use shielded wires. Also, do not input voltage to the reset terminal to avoid damaging the product.
- For sensors, please select our company's DC (10V-30V) normally - open photoelectric switches, proximity switches, and Hall switches.

IX. Ordering Instructions

When placing an order, clearly state the product model, working voltage, and quantity.

- Examples: 1) HHJ5 - F AC/DC100 ~ 240V 600 pieces
2) HHJ5 - K AC/DC24V 600 pieces



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C-Lin 欣灵

使用说明书
Products Instructions

HHJ5 - F
HHJ5 - K
Counting Relay

Thank you very much for using C-Lin products. Please read the instruction manual before use!

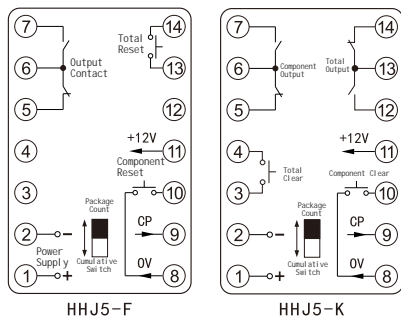
I. Overview

The HHJ5 - F/K counting relay is suitable for control circuits with an AC frequency of 50/60Hz and rated operating voltages of AC380V, AC/DC100 - 240V, and AC/DC24V. It functions as a counting element in the control circuit, connecting or breaking the circuit as required to achieve the purpose of automatic control. It adopts a single-chip microcomputer and EEPROM memory. The counting signal is photoelectrically isolated, and a 6-digit LED digital display is used. It has advantages such as a wide counting range, 10-year power-off memory, stable and reliable counting performance, etc. This product complies with the requirements of GB/T 14048.5.

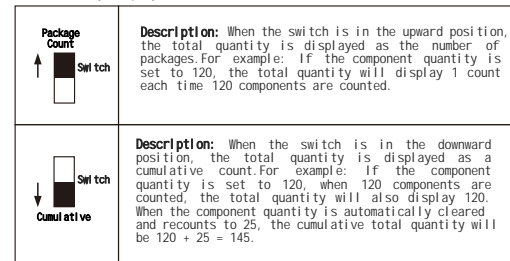
II. Main Technical Data

- Working Voltage (Control Power Supply Voltage): AC380V, AC/DC100 ~ 240V, AC/DC24V, 50/60Hz. The allowable voltage fluctuation range is (85%~110%) Ue.
- Counting Range: 1 ~ 999999.
- Counting Display: a) Total Quantity: Sum of component count values. There are two counting modes: [Package Count] and [Cumulative]. Counting stops when the total quantity set value is reached, and manual reset is required (only HHJ5 - K has total quantity output). b) Component Quantity: Displays the number of each batch. Contact output occurs when the component quantity set value is reached, and automatic reset happens after t seconds.
- Counting Signal: a) Contact Signal: Relay contacts, travel switches, etc. b) Level Signal: Pulse level (H: DC4V ~ 30V is valid; L: 0 ~ DC2V is invalid).
- Sensor Signal: Photoelectric switches, proximity switches, Hall switches.
- Counting Frequency: a) Low - frequency Counting: 30 times/second, minimum signal pulse 15ms. b) High - frequency Counting: 1000 times/second, minimum signal pulse 0.5ms, and the signal duty cycle is 50%.
- Counting Mode: Additive counting.
- Reset Mode: a) Total Quantity: HHJ5 - F is reset by short-circuiting Terminals ⑬ and ⑭; HHJ5 - K is reset by short-circuiting Terminals ⑬ and ⑭. b) Component Quantity: Reset by short-circuiting Terminals ⑬ and ⑭ or pressing the "R" key on the panel.
- Power - off Memory: 10 years.
- Contact Capacity: 3A AC250V (resistive).
- Ue/Ie: Under utilization categories, each rated working voltage Ue/rated working current Ie: AC - 15 AC250V/0.75A; AC - 12 AC250V/3A.
- Conventional Heating Current Ith: 5A.
- Rated Insulation Voltage Ui: 400V.
- Rated Impulse Withstand Voltage Uimp: 2.5KV.
- Pollution Degree: Level 3.
- Protection Class: Front panel IP20.
- Ambient Temperature: - 5 ~ +40 .
- Relative Humidity: 90%.
- Altitude: 2000m.
- Installation Method: Panel - mounted.

III. Wiring Diagrams

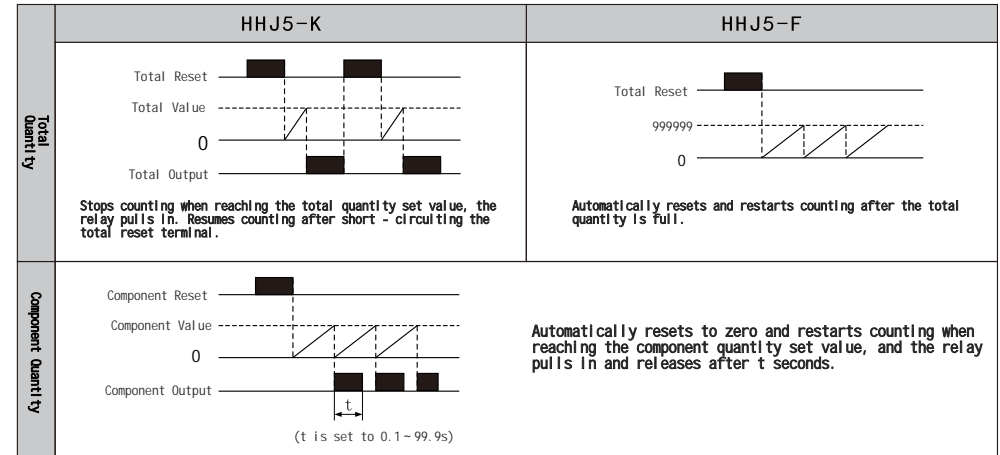


Total Quantity Display Selector Switch (Rear of the Product)



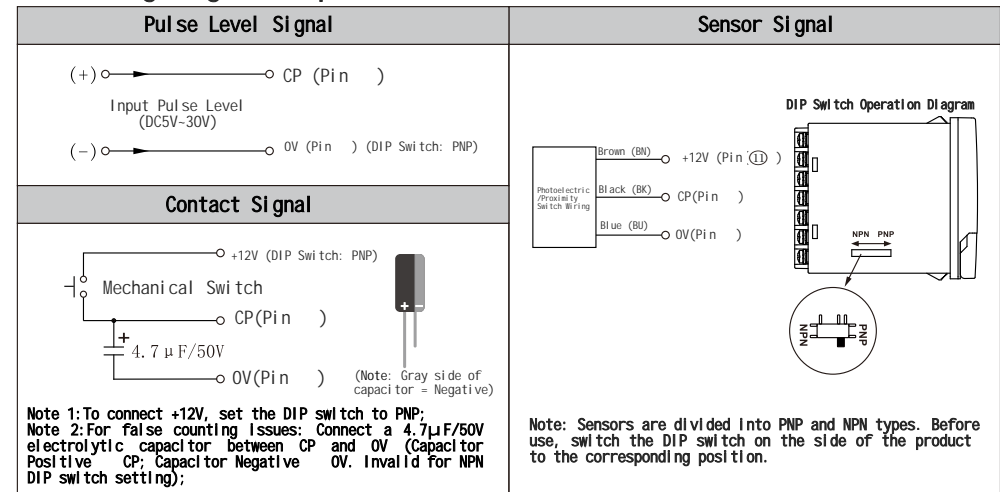
①

IV. Working Mode Diagrams



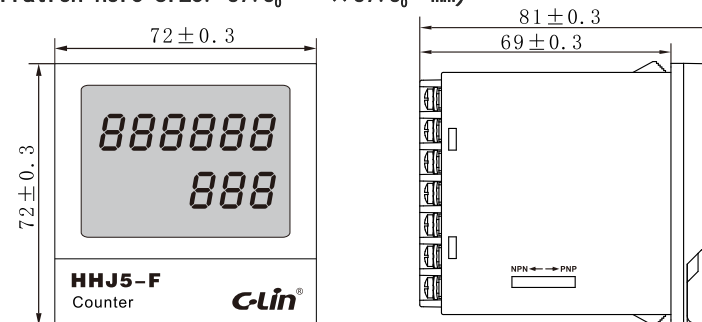
Note: HHJ5 - F has no total quantity output function and cannot set the total quantity value.

V. Counting Signal Input



Note: It is recommended to preferably select our company's DC (10-30V) normally - open photoelectric/proximity/Hall switches. Each counter is provided with a 4.7μF/50V electrolytic capacitor as a gift when leaving the factory.

VI. Outline and Installation Dimension Drawing (Installation Hole Size: 67.5^{+0.5} × 67.5^{+0.5}mm)



②