

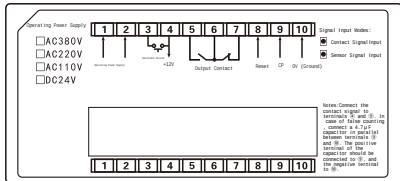
I. Overview

The HHJ4 - D (new type) counting relay is applicable as a counting element in control circuits with an alternating current of 50/60Hz and a rated operating voltage of 220V. It connects or disconnects the circuit according to the preset number. It adopts a single - chip microcomputer circuit, EEPROM memory, opto - isolation for signal input, and an 8 - bit LED digital display. It has advantages such as a wide counting range, multiple signal inputs, power - off memory lasting up to 10 years, and stable and reliable performance. This product complies with the requirements of GB/T 14048.5.

II. Main Technical Data

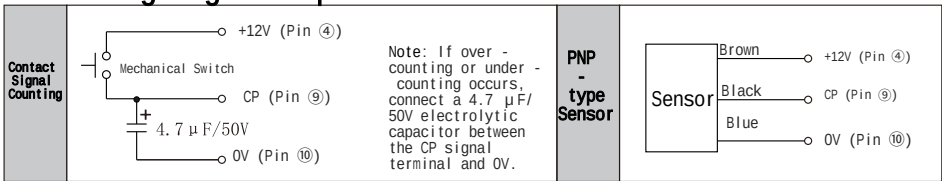
- Operating Voltage (Control Power Supply Voltage): AC220V 50/60Hz, with an allowable voltage fluctuation range of (85% - 110%)Ue.
- Counting Range: 1 - 99999999.
- Counting Signals: a) Contact signals: Relay contacts, travel switches, etc.
b) Sensor signals: Photoelectric switches, proximity switches, Hall switches.
- Counting Frequencies: a) Low - frequency counting: ≤ 30 times/second, with a minimum signal pulse width $\geq 15\text{ms}$.
b) High - frequency counting: ≤ 1000 times/second, with a minimum signal pulse width $\geq 0.5\text{ms}$ and a signal duty cycle of 50%.
- Reset Method: Long - press the R key for 3 seconds to reset.
- Ue/Ie: For each rated operating voltage Ue/rated operating current Ie under the usage category: AC - 15 Ue: AC250V, Ie: 3A.
- Power - off Memory: 10 years.
- Output Mode: C mode.
- Contact Rating: 3A AC250V (resistive).
- Conventional Heating Current Ith: 5A.
- Rated Insulation Voltage Ui: 400V.
- Rated Impulse Withstand Voltage Uimp: 2.5KV.
- Pollution Degree: Level 3.
- Degree of Protection of Front Panel: IP20.
- Ambient Temperature: $- 5^{\circ}\text{C} - + 40^{\circ}\text{C}$.
- Relative Humidity: $\leq 90\%$.
- Altitude: $\leq 2000\text{m}$.
- Mounting Method: Panel - type.

III. Wiring Diagram

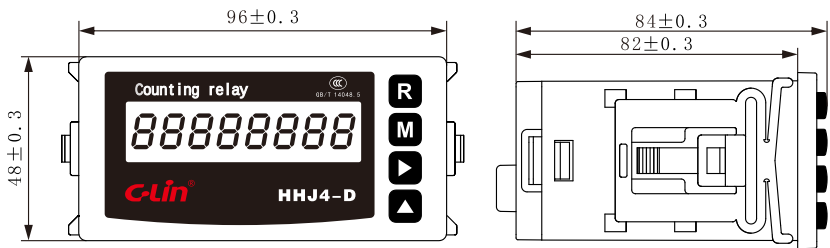


Notes: Terminals ① and ② are power input terminals (in DC, ① is the positive pole and ② is the negative pole). Terminal ③ is connected to the decrement switch. Terminal ④ is the output terminal for the DC 12V 30mA (max) sensor auxiliary power supply. Terminals ⑤ and ⑥ are normally - open contacts. Terminals ⑥ and ⑦ are normally - closed contacts. Terminal ⑧ is the reset terminal. Terminal ⑨ is the counting signal input terminal. Terminal ⑩ is the 0V terminal.

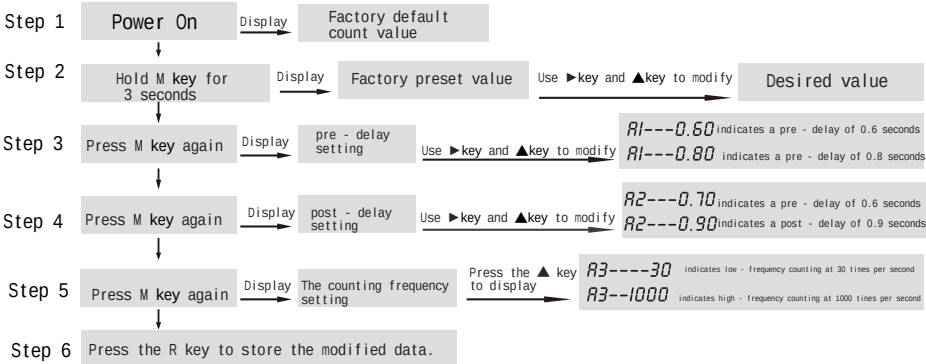
IV. Counting Signal Input



V. Outline and Mounting Dimension Diagram (Mounting Hole Dimensions: $45^{+0.5}_{-0.5} \times 92^{+0.5}_{-0.5}\text{mm}$)



VI. Function Settings



Note: M is the function key; > is the shift key; < is the increment key; R is the reset and confirmation key.

VII. Instructions for Use

- When using contact signal input, if false counting occurs due to poor contact or bounce of the contact, connect a 4.7 μF/50V electrolytic capacitor between the counting signal input terminal ⑨ and ⑩. Connect the positive terminal of the electrolytic capacitor to ⑨ and the negative terminal to ⑩.
- The signal input wire and the reset control wire should be as short as possible. Avoid routing them in the same conduit or twisted - pair wiring with other power - driven wires or power cords. Do not apply voltage to the reset terminal.
- If unqualified woven bags are detected during operation and a decrement is required: Connect a switch between pins ③ and ④. Each press of the switch will decrease the count by 1.

VIII. Operating Procedure

If the set number is 20, when the count reaches 20 each time, the output relay will be energized after a pre - delay of R1 seconds and then de - energized after a post - delay of R2 seconds. The display will keep accumulating.

IX. Ordering Instructions

When placing an order, the product model, working voltage, and quantity must be clearly specified.

Example: HHJ4 - D (new type), AC220V, 600 pieces



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使用说明书
Products Instructions

HHJ4 - D (New Type)
Counting Relay

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

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