

I. Overview

The HHJM-72F/HHJM-72K counting relays are suitable for use as counting elements in control circuits with AC 50/60Hz (rated operating voltage 380V) or DC (operating voltage 240V). They can connect or disconnect circuits according to preset numerical values.

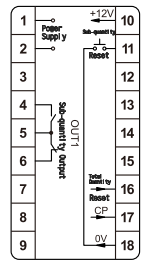
Equipped with high-performance single-chip microcomputer chips, EEPROM memory, photoelectric isolation for counting signals, and dual-row LED display, these relays feature a wide counting range, multiple counting modes and counting signal inputs, as well as stable and reliable counting performance. They are widely used in industrial automation control.

This product complies with the requirements of GB/T 14048.5.

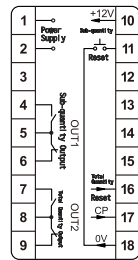
II. Main Technical Data

- Operating Voltage (Control Power Supply Voltage) Options: AC380V, AC/DC100~240V, AC/DC24V (50/60Hz)
- Allowable voltage fluctuation range: (85%~110%)Ue
- Counting Range 1~999999
- Counting Modes: a) Total Quantity Sum of sub-quantities. Two counting methods: [Package Count] and [Accumulation]. Counting stops when the total quantity is reached (only HHJM-72K has OUT2 total output).
- Sub-quantity: Displays the number of each batch. The OUT1 contact outputs when the sub-quantity is reached.
- Counting Signals: a) Contact Signals Relay contacts, travel switches, etc.
b) Level Signals Pulse Levels (DC5V~30V effective).
- Sensor Signals Photoelectric switches, proximity switches, Hall switches.
- Counting Frequency: Adjustable: 1, 10, 30, 300, 1000 times/second, Signal duty cycle: 50% (factory default: 1000 times/second)
- Reset Methods: a) Total Quantity When DIP switch is NPN: Short total reset terminal [Pin 16] and 0V terminal [Pin 18]. When DIP switch is PNP: Short total reset terminal [Pin 16] and 12V terminal [Pin 10].
b) Sub-quantity Reset by pressing the R key or short sub-quantity reset terminal [Pin 11] and 0V [Pin 18].
- Ue/Ie: (Rated Voltage/Current) Usage categories and ratings: AC-15 AC250V / 0.75A; AC-12 AC250V / 3A
- Output Mode: N, C system
- Contact Capacity: 3A AC250V (resistive)
- 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 IP40
- Ambient Temperature: -5 ~ +40
- Relative Humidity: 90%
- Altitude: 2000m
- Installation Method: Panel mounting

III. Wiring Diagrams (Power Terminals Have No Polarity Distinction)

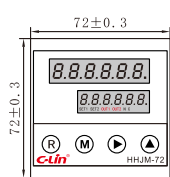


HHJM-72F

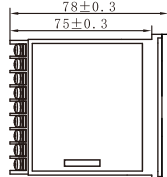


HHJM-72K

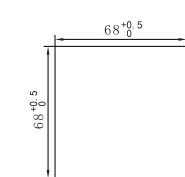
IV. Outline and Mounting Hole Dimensions (mm)



Front View

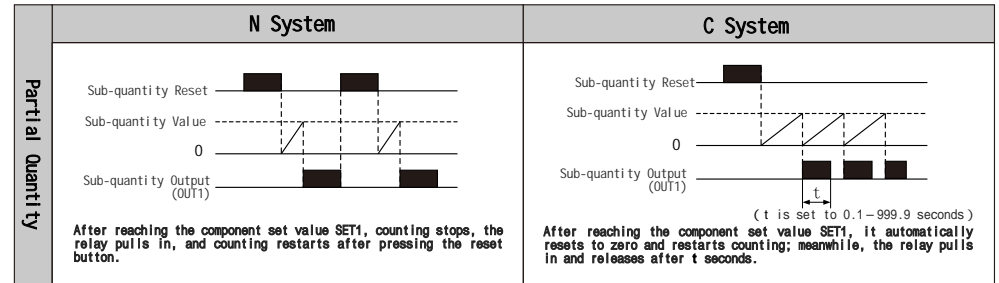
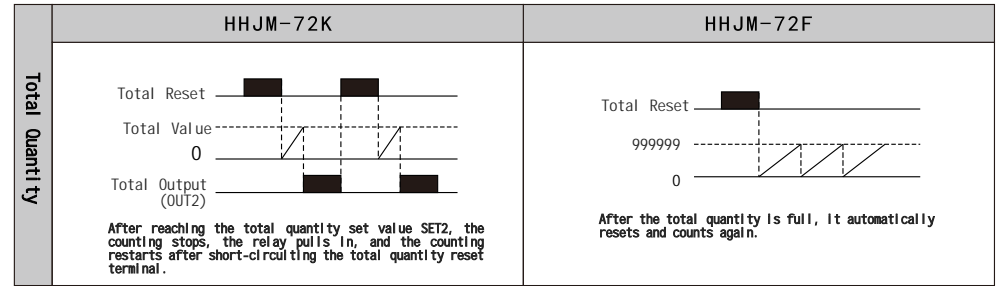


Left View



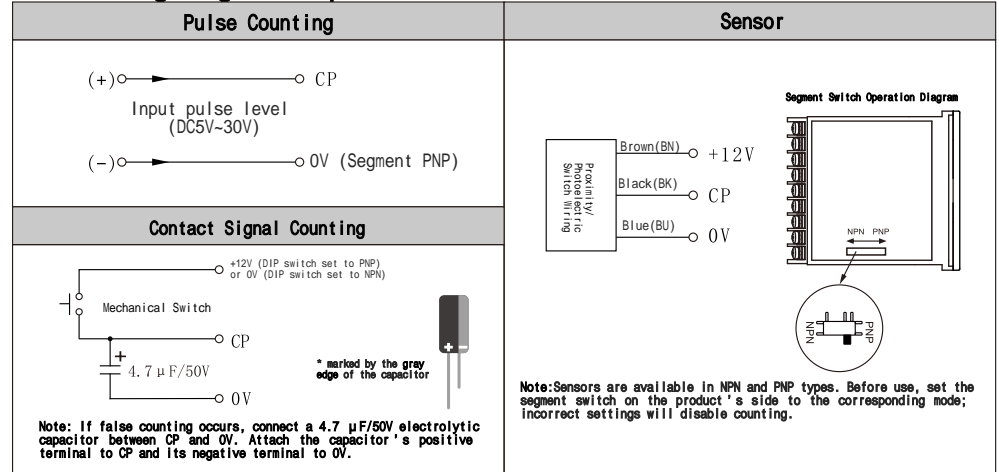
Mounting Hole Dimensions

V. Output Mode Diagrams

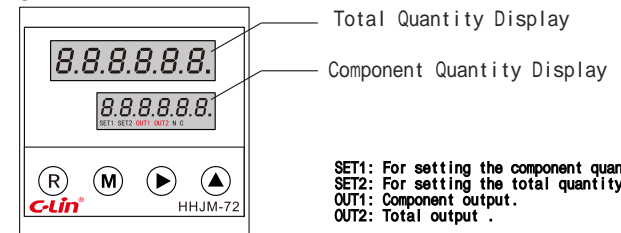


Note: The N system requires manual reset, while the C system resets automatically. HHJM-72F has no total output function and cannot set a total value.

VI. Counting Signal Input



VII. Function Setting



Total Quantity Display

Component Quantity Display

SET1: For setting the component quantity.
SET2: For setting the total quantity.
OUT1: Component output.
OUT2: Total output.

