

VII. Function Settings

1. Button Functions

- ① Increment Button (“+”): Press the “+” button once to increase the preset value by 1 (setting range: 1 - 9999).
- ② Decrement Button (“-”): Press the “-” button once to decrease the preset value by 1 (setting range: 1 - 9999).
- ③ Reset Button:
 - a) Press this button during counting to reset the counter.
 - b) After setting the preset value, press the reset button to save the settings.
 - c) Quickly press the reset button 5 times within two seconds to enter the setting menu. Each press will display the following in sequence: *CPS*, *DATA*, *OUT*, *C-E*, *rSt*. Long - press the reset button for 2 seconds to exit the setting menu and save the settings.

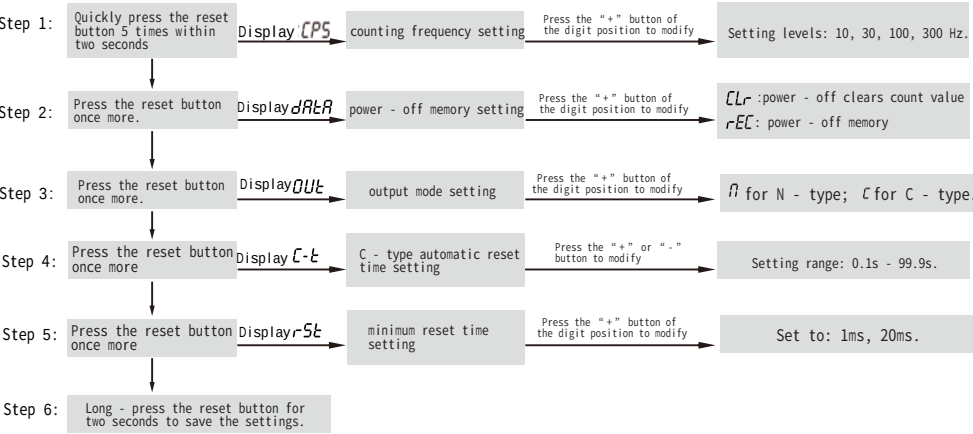
2. Setting Menu

Symbol	Name	Description	Setting Range	Factory Parameter
<i>CPS</i>	Counting Frequency	The set value must not be lower than the frequency of the input signal.	10、30、100、300 Hz	100
<i>DATA</i>	Data Preservation	<i>CLR</i> means power - off clears the count value (indicator off when enabled) <i>rEC</i> means power - off memory (indicator on when enabled).		<i>rEC</i>
<i>OUT</i>	Output Mode	<i>n</i> = N - type; <i>℄</i> = C - type		<i>n</i>
<i>C-E</i>	Automatic Reset Time	C - type only	0.1 - 99.9 seconds	1.0
<i>rSt</i>	Minimum Reset Time	Set the minimum width of the external reset signal input.	1 millisecond, 20 milliseconds	1

3. Preset Value Setting



4. Parameter Setting (Fourth step is for C - type only)



VIII. Instructions for Use

- 1.The counting signal input wires and reset control wires should be as short as possible. Avoid routing them in the same conduit or twisting them together with power lines and power - driven lines. Use shielded wires when necessary. Do not apply voltage to the reset terminal to prevent product damage.
- 2.If incorrect counting occurs in contact signal counting, reduce the CPS parameter value of the counting frequency. If this is ineffective, connect a 4.7 μF / 50V electrolytic capacitor between CP and OV. Connect the positive terminal of the capacitor to the CP end and the negative terminal to the OV end (connecting the capacitor has no effect when the DIP switch is set to NPN).
- 3.The reset button can not only reset but also save the preset value setting when pressed once. Pressing it 5 times quickly within two seconds can enter the setting menu, and long - pressing it for two seconds can save and exit the setting menu.
- 4.When the “Mem/Off” indicator on the panel is on, it indicates that the power - off memory function of the counter is enabled; when the indicator is off, it means the power - off memory function is disabled.
- 5.When the counter reaches the preset value and outputs, the output contact will be attracted. At this time, the normally - open contacts [Pin 4][Pin 5] or [Pin 7][Pin 8] will close, and the normally - closed contacts [Pin 5][Pin 6] or [Pin 8][Pin 9] will release. The control terminals [Pin 10] and [Pin 12] of the NPN transistor will also be turned on.

IX. Ordering Instructions

When placing an order, the product model, operating voltage, and quantity must be specified. Note: Two sets of output contacts are for special - specification versions and need to be noted when placing an order. The regular delivery is for one set of contacts. Examples:1)JDM9 - 4A, AC/DC100 - 240V, 800 pieces 2)JDM9 - 4A - 2 (two sets of contacts), AC/DC100 - 240V, 800 pieces (two sets of contacts require customization)



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使用说明书
Products Instructions

JDM9 - 4A
Counting Relay

N/C Type

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

29A086Q0

I. Overview

JDM9 - 4A counting relay is suitable for use as a counting element in control circuits with AC 50/60Hz, rated operating voltage of 380V and below or DC operating voltage of 240V and below, to switch on or off the circuit according to the preset number.

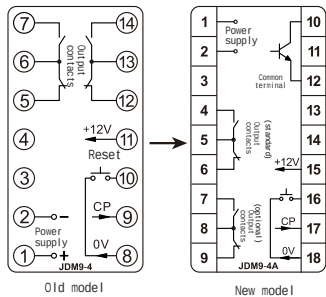
Adopting a high - performance single - chip microcomputer chip, the upper and lower double - row digital tubes can respectively display the counting value and preset number. The keep/non - keep indicator light can display the memory state. It has the characteristics of convenient setting, stable counting performance, and multiple counting signal inputs, and is widely applied in industrial automation control.

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, allowable voltage fluctuation range is (85% - 110%)Ue;
- Counting range: 1 - 9999;
- Counting signal: a) Contact signal: relay contact, limit switch, etc.;
b) Level signal: pulse level (DC5V - 30V effective);
c) Sensor signal: photoelectric switch, proximity switch, Hall switch;
- Counting frequency: adjustable at 10, 30, 100, 300 times/second, signal duty cycle is 50% (factory setting is 100 times/second);
- Counting mode: up - counting;
- Output mode: N, C mode;
- Reset mode: a) Press the reset button; b) Short - circuit the reset terminal [pin 16] and 0V terminal [pin 18];
- Contact capacity: 3A AC250V (resistive);
- Ue/Ie: Under each use category, rated operating voltage Ue/rated operating 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;
- Auxiliary output power: DC12V 30mA (max);
- Pollution degree: grade 3;
- Protection level: front panel IP40;
- Ambient temperature: - 5°C - + 40°C;
- Relative humidity: ≤90%;
- Altitude: ≤2000m;
- Installation method: panel-type;

III. Wiring Diagram



New wiring instructions:

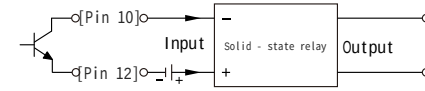
[1], [2] are power input terminals (polarity - independent); [4], [5] are normally - open contacts; [5], [6] are normally - closed contacts; [7], [8] are normally - open contacts; [8], [9] are normally - closed contacts; [10] is DC30V 100mA (max) NPN transistor control terminal; [12] is the common terminal (0V); [15] is DC12V 30mA (max) sensor auxiliary - power output terminal; [16] is the reset terminal; [17] is the counting - signal input terminal; [18] is the 0V terminal.

Note: JDM9 - 4A - 2 with two - group output is a special version and needs to be noted when placing an order. The regular delivery is JDM9 - 4A with one - group contact.

※Please change the wiring of the old - model JDM9 - 4 to the corresponding terminals according to the comparison table:

Old model:	1	2	5	6	7	8	9	10	11	12	13	14
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
New model:	1	2	6	5	4	18	17	16	15	9	8	7

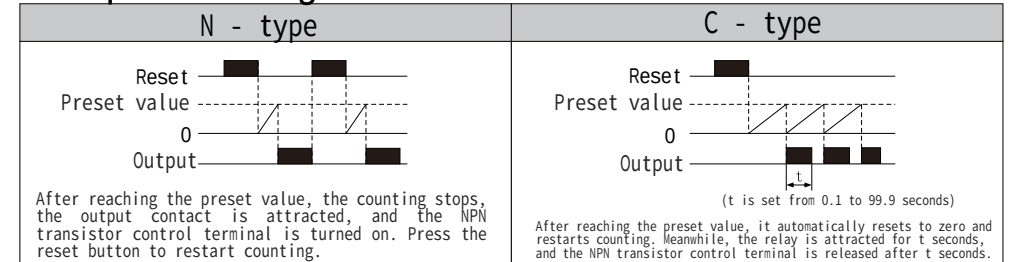
Solid - State Relay Wiring Instructions



The negative terminal of the solid - state relay input: Connect to [Pin 10];
The positive terminal of the solid - state relay input: Connect to the positive terminal of the DC power supply;
The negative terminal of the DC power supply: Connect to [Pin 12].

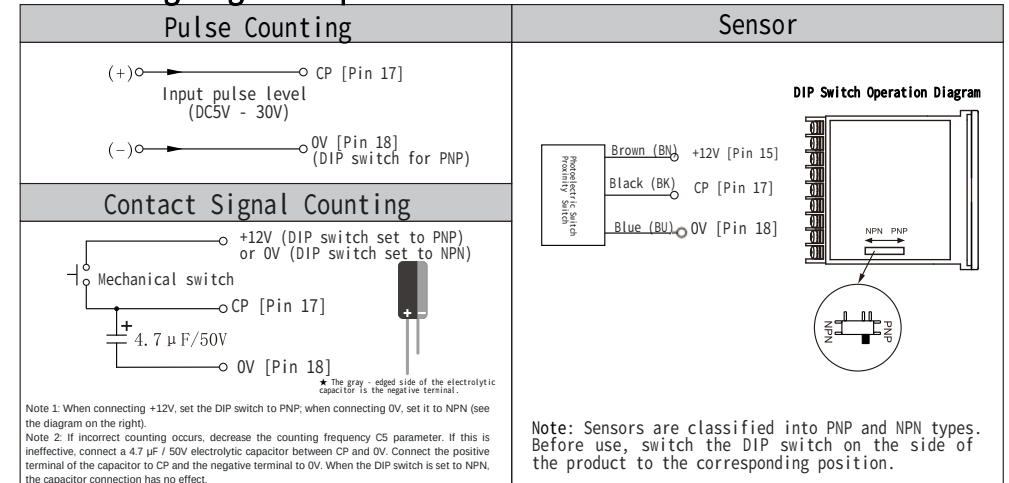
Note: The NPN transistor is equivalent to a switch and can control solid - state relays, small relays, etc. The wiring is as shown in the above diagram.

IV. Output Mode Diagram



Note: The N - type requires manual reset, while the C - type has automatic reset.

V. Counting Signal Input



VI. Outline and Cutout Dimensions (mm)

