

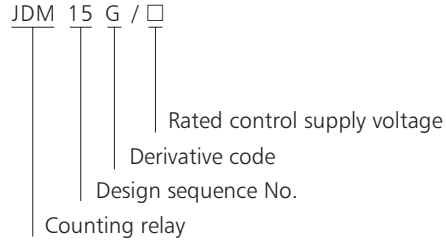


JDM15G Counting Relay

1. General

JDM15G counting relay is used as a counting or counting control element in control circuits with an AC frequency of 50Hz and a rated control supply voltage of up to 240V and control circuits with a DC rated control supply voltage of up to 240V.

2. Type designation

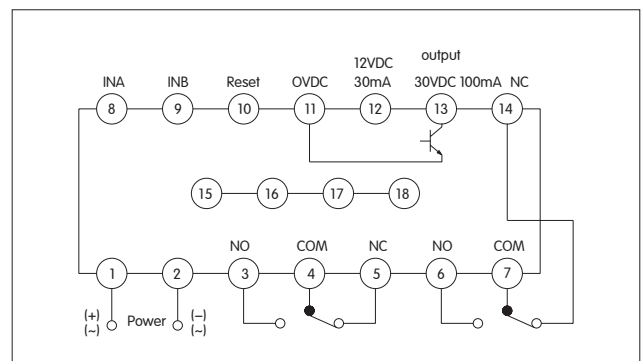


Note: Some models of this product apply to a wide range of operational voltage. For example, an operational voltage of AC/DC100V~!240V means that it can operate normally within the voltage range of AC or DC 100V to 240V.

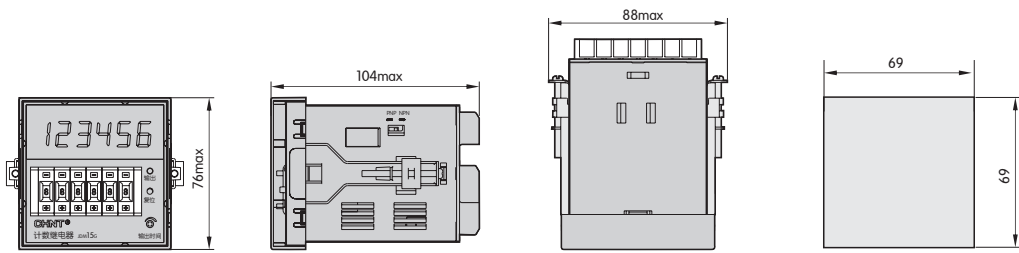
3. Technical data

Operational voltage	85%-110% of rated voltage AC50Hz AC/DC100V-240V
Electrical life	1 × 10 ⁵
Mechanical life	1 × 10 ⁶
Output mode	2 groups of change-over contacts, open collector output (30VDC 100mA max)
Contact capacity	Ue/Ie: AC-15 220V/0.75A, 380V/0.47A; DC-13 220V/0.27A; Ith:0.5A
Counting digits	6-digit counting relay
Counting rate	30 times/second, 1000 times/second, can be set by the user
Counting mode	Addition, addition × 10, addition × 100, subtraction, reversible A, reversible B, reversible C
Input signal	Contact input, sensor input (NPN type/PNP type can be set)
Output mode	N, F, C, R
Output time	The output time can be set within 0.01s~9.99s (under output mode C or R)
Ambient temperature	-5°C~+40°C
Power consumption	≤3VA
Mounting type	Panel type
Overall dimensions	W88×H76×L104mm
Opening size	W69×H69mm
Power-off memory	More than 10 years (can be set)

4. Wiring diagram



5. Overall and mounting dimensions (mm)



6. Sequence diagram of counting mode

Counting mode	Timing-sequence diagram	Remark
U Addition counting mode	<p>INA: [Pulse] [Pulse] [Pulse] [Pulse] [Pulse] [Pulse]</p> <p>INB: [High] [Low]</p> <p>Count value: 0 → 1 → 2 → 3 → 4 → 5</p>	Count at INA rising edge, stop counting at INB input.
d Subtraction counting mode	<p>INA: [High] [Low] [High]</p> <p>INB: [Pulse] [Pulse] [Pulse] [Pulse] [Pulse] [Pulse]</p> <p>Count value: n → n-1 → n-2 → n-3 → n-4 → n-5</p> <p>*n Preset value</p>	Count at INA rising edge, stop counting at INB input.
Ud-R Reversible counting mode A	<p>INA: [Pulse] [Pulse] [Pulse] [Pulse] [Pulse] [Pulse]</p> <p>INB: [Pulse] [Pulse] [Pulse] [Pulse] [Pulse] [Pulse]</p> <p>Count value: 0 → 1 → 2 → 3 → 2 → 1 → 2 → 3</p>	Reversible counting mode A: Addition counting at INA input, subtraction counting when INB input is active.

Counting mode	Timing-sequence diagram	Remark
<p>UD-b Reversible counting mode B</p>		<p>Reversible counting mode B: Addition counting at INA input, subtraction counting at INB input.</p>
<p>UD-c Reversible counting mode C</p>		<p>Reversible counting mode C: Automatic recognition of positive and reverse rotations, addition and subtraction counting.</p>

7. Sequence diagram of output mode

Output mode	Plus counting mode	Minus counting mode	Inverse counting mode A, B, C
<p>$\square(N)$</p>			
<p>F(F)</p>			
<p>$\square(C)$</p>			
<p>$\square(R)$</p>			

Note: t is the output time, which can be set by the user.