



NJJ5-J Series
Electronic Counter

User Instruction



Safety Warning

- ① Only professional technicians are allowed for installation and maintenance.
- ② Installation in any damp, condensed-phase environment with inflammable and explosive gas is forbidden.
- ③ When the product is being installed or maintained, the power must be switched off.
- ④ You are prohibited from touching the conductive part when the product is operating.
- ⑤ The product shall be stored, installed and used in accordance with the rated control power supply voltage and specified conditions indicated in the user instructions.
- ⑥ The products shall be properly wired in strict accordance with the wiring diagram.

1 Use Purpose

NJJ5-J Series electronic counter (hereinafter referred to as the counter) is mainly used for counting in the circuit with AC frequency of 50Hz/60Hz, AC rated control power supply voltage up to 240V and DC rated control power supply voltage up to 240V.

2 Key Technical Parameters

Table 1 Ambient Conditions

Normal use conditions	Ambient temp.: -5°C~+40°C; average value within 24h not exceeding +35°C; altitude not exceeding 2,000m.
Atmospheric conditions	RH shall not exceed 50% when maximum temperature is +40°C; in case of lower temperature, higher RH is allowed. Measures should be taken against occasional condensation due to temperature change.
Installation category	II
Transport and storage conditions	-25°C~+55°C

Table 2 Product Specifications and Main Technical Parameters

Model	NJJ5-JL	NJJ5-JLE	NJJ5-JH	NJJ5-JHE
Rated control supply voltage U_s (V), frequency (Hz)	AC/DC100V~240V, 50Hz/60Hz; DC24V			
Allowable fluctuation range of rated control power supply voltage	85% U_s ~110% U_s			
Rated insulation voltage U_i (V)	AC250V			
Counting speed	10 times/s		1000 times/s	
Counting range	0~999999			
Counting errors	$\leq \pm 1$ time			
Outline type	NJJ5-JL/JH: normal type; NJJ5-JLE/JHE: extension panel type			
Input method	Contact input, sensor input (NPN type)			

Table 2 (continued)

Model	NJJ5-JL	NJJ5-JLE	NJJ5-JH	NJJ5-JHE
Output mode	No output			
Reset mode	Panel button reset			
Reset minimum pulse width	≥20ms			
Enclosure protection class	IP20			
Pollution class	Class 3			
Power-off memory	More than 10 years			
Installation method	Panel type			

Table 3 Immunity to Interference

No.	Test type	Test level
1	Electrostatic discharge immunity test	8kV (air discharge)
2	RF electromagnetic field immunity test	10V/m
3	Electrical fast transient/burst immunity test	2kV/5kHz on the power supply side
4	Surge immunity test	1kV (wire to wire)

3 Installation

3.1 Outline and installation size: see Figure 1~ Figure 2, unit: mm.

3.2 Wiring diagram: see Figure 3~ Figure 5, working sequence diagram: see Figure 6.

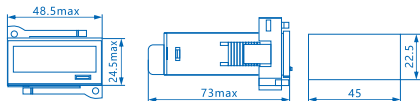


Figure 1 Outline and Installation Size of the Normal Type

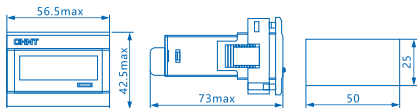


Figure 2 Outline and Installation Size of the Extension Panel Type

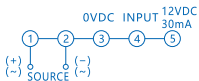


Figure 3 Wiring Diagram

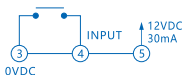


Figure 4 Contact Input Wiring Diagram

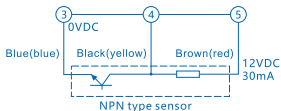


Figure 5 Sensor Input Wiring Diagram

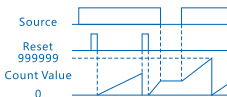


Figure 6 Working Sequence Diagram

Notes: when contact is used as the input signal for counting, please select the device with good contact; when the counting signal is input, the width of the signal should conform to: when the signal is 10cps, the width of the signal is $\geq 500\text{ms}$, when the signal is 1kcps, the width of the signal is $\geq 500\mu\text{s}$. The switch or circuit of the signal input and reset input of the counter should be close to the terminal of the counter as best as possible, so that the input line is as short as possible, which shall not use the same pipe or be twisted with other cables, such as the power line. Please use shielded wires if necessary.

4 Maintenance

4.1 The terminal of the counter should be tightened on a regular basis.

4.2 Avoid squeezing the product; the product should be stored in a well-ventilated place.

4.3 For equipment that may cause material economic losses or personal safety, safety measures such as secondary circuit protection should be taken.

Table 4 Fault Analysis and Troubleshooting

Symptoms	Cause analysis	Troubleshooting method
The LED does not display	Check if the wire is securely connected with the terminal, and the terminal of the power end is correctly wired.	Wire the product securely according to the product manual.
Extra count	Poor contact or bounce of the contact.	Connect $1\mu\text{F}\sim 10\mu\text{F}$ electrolytic capacitor (negative pole is connected with 0VDC, positive pole is connected with signal input terminal) in parallel at both ends of the contact.

5 Environmental Protection

In order to protect the environment, the product or product parts should be disposed of according to the industrial waste treatment process, or be sent to the recycling station for assortment, dismantling and recycling according to local regulations.

CHINT

QC PASS

NJJ5-J Series
Electronic Counter

JDQ Check 10

Test date: Please see the packing

ZHEJIANG CHINT ELECTRICS CO., LTD.

CHINT

CHINT ELECTRICS

NJJ5-J Series Electronic Counter User Instruction

Zhejiang Chint Electrics Co., Ltd.

Add: No.1, CHINT Road, CHINT Industrial Zone, North Baixiang,
Yueqing, Zhejiang 325603, P.R.China

E-mail: global-sales@chint.com

Website: <http://en.chint.com>

