NO:2021.11

CHINT ELECTRICS

SC3L Series
Electronic Time Accumulator

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 input 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

SC3L Series electronic time accumulator (hereinafter referred to as the accumulator), which is powered by lithium battery inside, has a compact appearance and is applicable to various circuits.

2 Key Technical Parameters

Table 1 Ambient Conditions

Normal use conditions	Ambient temp.: -5℃~+40℃; average value within 24h not exceeding +35℃; altitude not exceeding 2000m.
Atmospheric conditions	RH shall not exceed 50% when maximum temperature is +40℃; 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℃~+55℃

Table 2 Product Specifications and Main Technical Parameters

Model	**SC3L-1, SC3L-2, SC3L-3, SC3L-4, SC3L-5, SC3L-6; SC3L-1V, SC3L-2V, SC3L-3V, SC3L-4V, SC3L-5V, SC3L-6V; SC3L-1A, SC3L-2A, SC3L-3A, SC3L-4A, SC3L-5A, SC3L-6A**
Time range	1: 99999.9h, 2: 99h59min59s, 3: 9999h59min, 4: 9999day23h, 5: 9999h59min59s, 6: 999999h59min
Input signal	None: no voltage input; V: DC voltage input; A: AC voltage input No voltage input (contact input): maximum contact connection resistance: ≤10 kΩ(count on); Minimum contact breaking resistance: ≥500 kΩ(count off); Input maximum residual voltage: 0.5V DC voltage input (V): L: DC0V ~ 2V; H: DC4V ~ 30V (H valid) (input impedance: ≥4.7 kΩ) AC voltage input (A): AC / DC24V ~ 240V
Time error	≤0.1%
Power supply	Internal power supply

Table 2 (continued)

Model	SC3L-1, SC3L-2, SC3L-3, SC3L-4, SC3L-5, SC3L-6; SC3L-1V, SC3L-2V, SC3L-3V, SC3L-4V, SC3L-5V, SC3L-6V; SC3L-1A, SC3L-2A, SC3L-3A, SC3L-4A, SC3L-5A, SC3L-6A
Output method	No output
Display mode	LCD display, display "0" type (hidden "0" type can be customized)
Reset mode	Panel button reset (6 digits), external terminal reset (6 digits & 8 digits)
Reset minimum pulse width	≥0.2s
Pollution class	Class 3
Battery life	About 6 years (25℃)
Installation method	Panel type

3 Installation

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

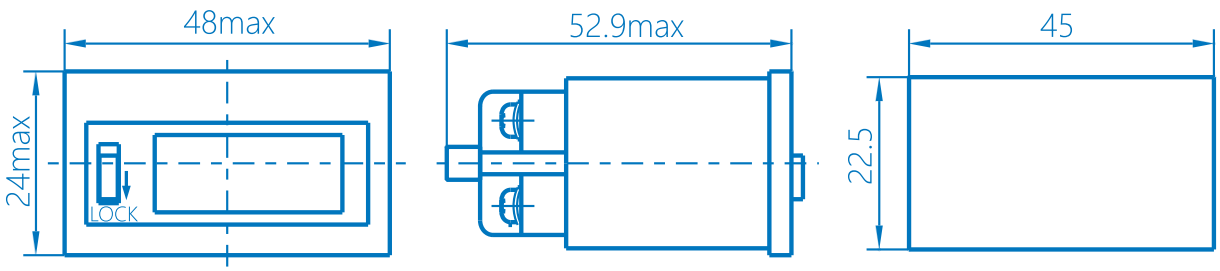
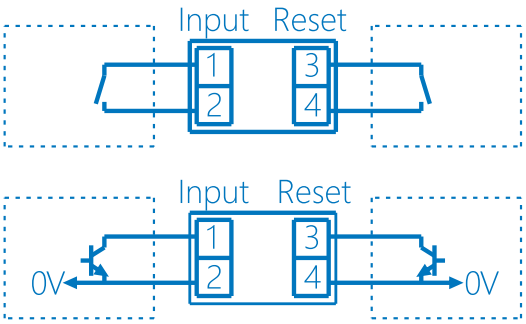


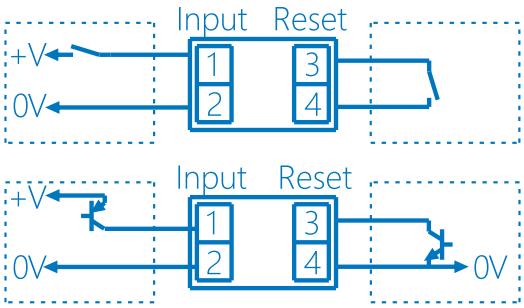
Figure 1 Outline and Installation Size

3.2 Wiring diagram: see Figure 2~ Figure 4, working sequence diagram: see Figure 5.



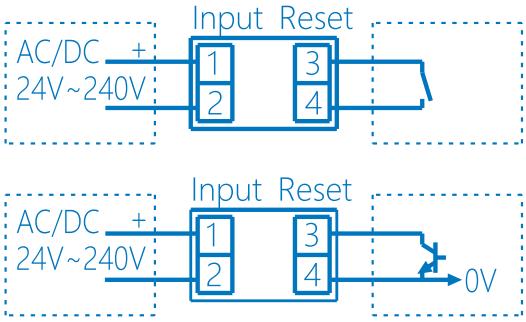
2&4 have been connected internally

Figure 2 Wiring Diagram of No Voltage Input



2&4 have been connected internally

Figure 3 Wiring Diagram of DC Voltage Input



*Do not input voltage signal on reset terminal

Figure 4 Wiring Diagram of AC Voltage Input

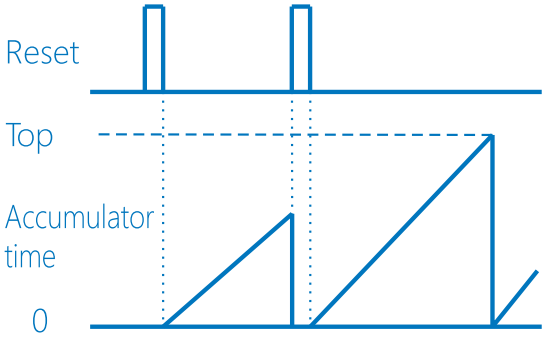


Figure 5 Working Sequence Diagram

Notes: The switch or circuit for the signal input and reset input of the counter shall be close to the terminal of the counter as best as possible to make the input line as short as possible, which shall not use the same pipe or be stranded with other power lines. If necessary, please use shielded wire. The reset signal shall not be connected for a long time to avoid the waste of the internal battery. The contact input should be reliable.

4 Maintenance

4.1 The terminal of the timer 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 3 Fault Analysis and Troubleshooting

Symptoms	Cause analysis	Troubleshooting method
The product fails to time.	Incorrect wiring.	Check whether the reset end is wrongly connected.

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

SC3L Series
Electronic Time Accumulator

JDQ Check 10

Test date: Please see the packing

ZHEJIANG CHINT ELECTRICS CO.,LTD.

CHINT ELECTRICS

SC3L Series
Electronic Time Accumulator
User Instruction

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