



JS14P Series Time Relay User Manual



□ Please carefully read this User Manual before installing and operating the product. and keep this manual properly for future reference

I. Overview

1.1 Scope of Application

JS14P series time relay is suitable for AC 50/60Hz automatic control circuit with the voltage 380V and below and with the DC voltage 240 and below. and is used to connect or disconnect the circuit at a predetermined time.

The product is an upgraded product such as JS14 and JS20. It uses integrated circuit and preset digital key switch. featuring with small size. light weight. high precision. long life and high versatility.

Standard: GB/T 14048.5

1.2 Model definition

Rated control supply voltage U_s : see 3.3

Delay time: see table

Installation form: no code means device type; M means panel type

Delay type model and specification code: no code means power-on delay;

D means power-off delay

Digital type

Design No.

Time relay

Spec. and Code	Delay range	Multiply selection	Setting method	Delay time JS14P. JS14P-M
JS14P-01 JS14P-01/M	0.1-9.9s 1-99s	x0.1 x1	2-digit setting switch	0.1-9.9s, 1-99s, 10-999s, 0.1-9.9min, 1-99min, 10-990min, 0.1-9.9h, 1-99h, 0.01-9.99s, 0.1-99.9s, 1-999s, 10-9990s, 0.1-99.9min, 1-999min, 10-9990min, 0.1-99.9h, 1-999h, One machine with multiple delays 0.1s~99h, One machine with multiple delays 0.01s~999h
JS14P-02 JS14P-02/M	0.1-9.9s 0.1-9.9min	x0.1 x6	2-digit setting switch	
JS14P-03 JS14P-03/M	0.1-9.9s 0.1-9.9min	x1 x6	2-digit setting switch	
JS14P-04 JS14P-04/M	0.1-9.9min 1-99min	x6 x60	2-digit setting switch	
JS14P-05 JS14P-05/M	0.1-99.9s 1-999s	x0.1 x1	3-digit setting switch	
JS14P-06 JS14P-06/M	1-999s 10-9990s	x1 x10	3-digit setting switch	
JS14P-07 JS14P-07/M	0.1-99.9min 1-999min	x6 x60	3-digit setting switch	

JS14P-D JS14P-DM	
Delay time	0.1s-9.9s, 1s-99s, 0.01s-9.99s, 0.1s-999s, 1s- 599s

1.3 Normal Working Conditions and Installation Conditions

1.3.1 Working environment: the altitude does not exceed 2000 meters; the ambient temperature is not higher than +40°C and not below -5°C; the voltage variation range of the rated control power supply is 85%-110% of the rated voltage; Installed in places where there is no explosive medium or the medium does not contain gas or conductive dust that causes metal corrosion or damage to the insulation free from the rain or snow erosion.

1.3.2 Vertical or horizontal installation.

II. Structure Features and Working Principle

This series of time relays all uses medium-scale integrated circuits. LED light-emitting diode indication. digital toggle switch preset. featuring with convenient setting. stable and reliable operation. high delay precision. and small size.

III. Technical Features

3.1 Rated insulation voltage U_i : AC380V

3.2 Rated impulse withstand voltage U_{imp} : AC2.5kV

3.3 Rated control power supply voltage U_s : AC: 380V, 220V, 127V, 110V, 36V, 24V, 12V; DC: 220V, 127V, 110V, 36V, 24V, 12V; AC/DC24V~48V; AC/DC100V~240V.

3.4 The rated operating voltage U_e / rated operating current under the usage category I_e :

AC-15 U_e : AC380V, I_e : 0.95A; U_e : AC240V, I_e : 1.5A; U_e : AC120V, I_e : 3A;

DC-13 U_e : DC250, I_e : 0.27A; U_e : DC125V, I_e : 0.55A

3.5 Resistive current I_{th} : 5A

3.6 Contact capacity: AC250V 3A; (resistive);

3.7 Pollution level: 3

3.8 Setting error: $\leq 1\%$;

3.9 Repetitive error: $\leq 1\%$;

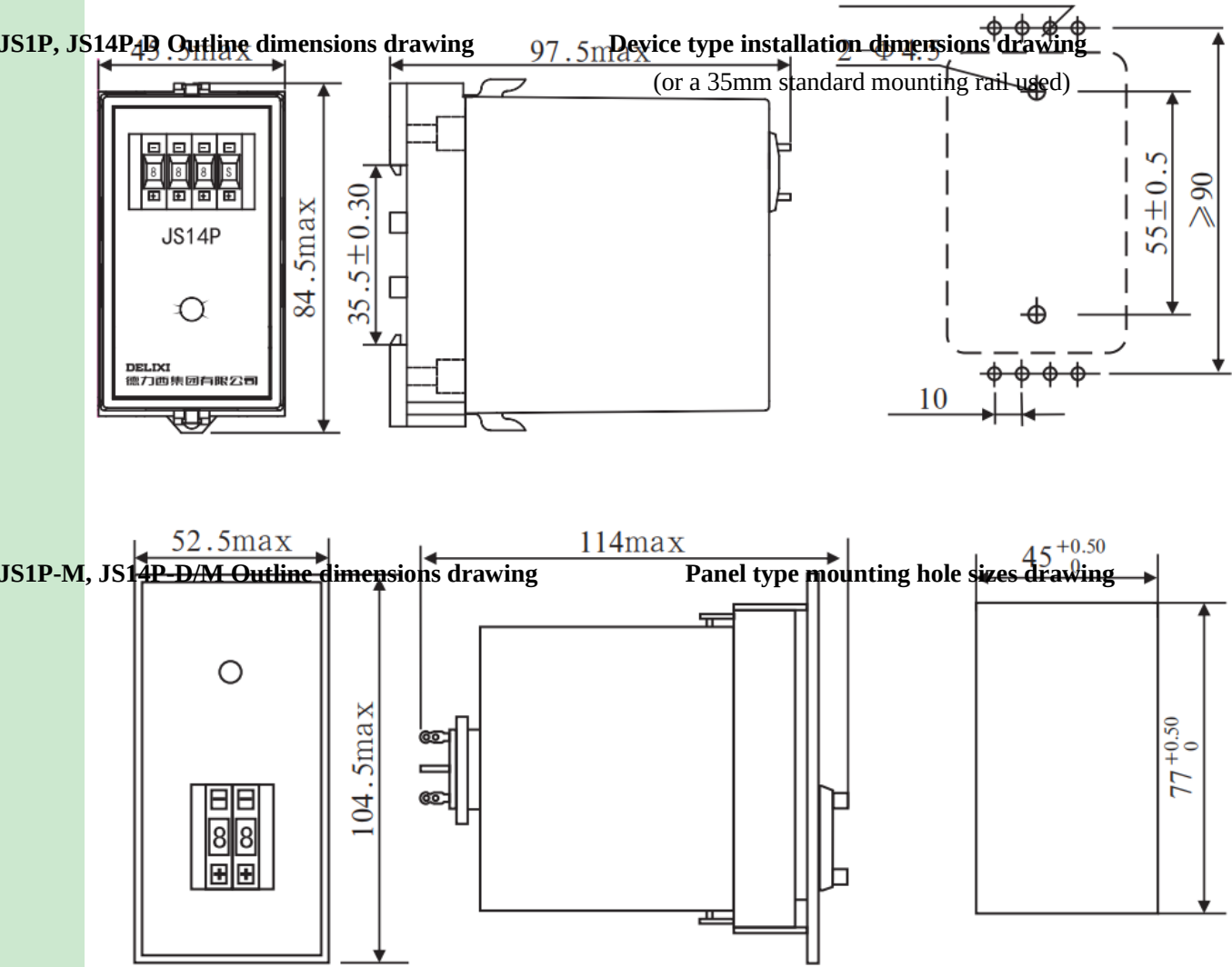
- 3.10 Mechanical life: ≥ 1 million times
- 3.11 Electrical life: $\geq 100,000$ times
- 3.12 Cooperation with the short circuit protective device (SCPD): The RT16-00, 6A fuse with “1” type basic protection is recommended as SCPD; that is, the relay shall not cause danger to the persons or equipment in case of short circuit, and it is not allowed to work continuously before the repair or replacement of parts. If the fuse protective device of the different model is selected, the original cooperation may fail.

IV. Outline and Installation Dimensions

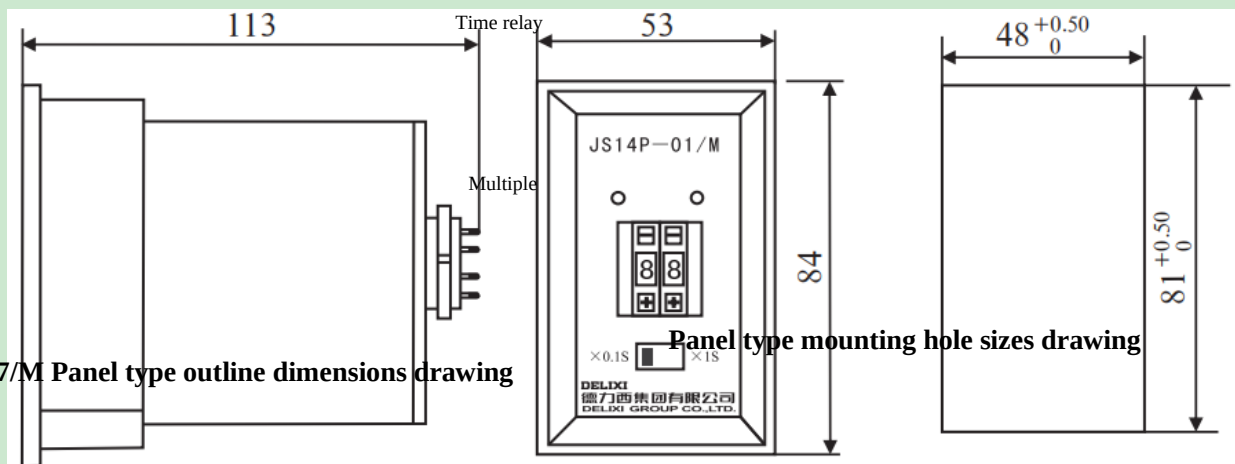
Unit: (mm)

8- $\phi 4$ holes are for back-panel wiring

Time relay

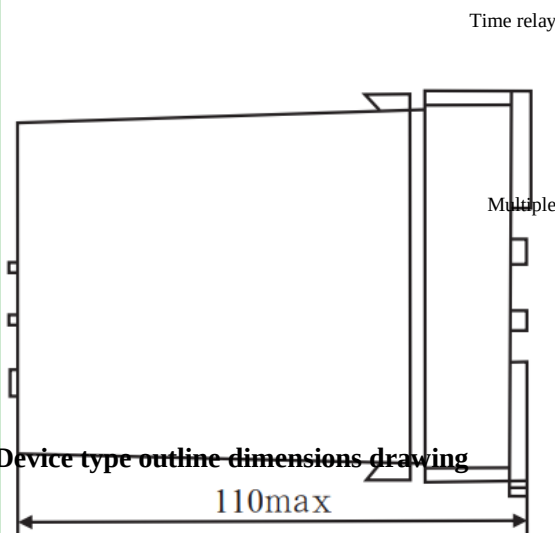


JS14P-01~07/M Panel type outline dimensions drawing

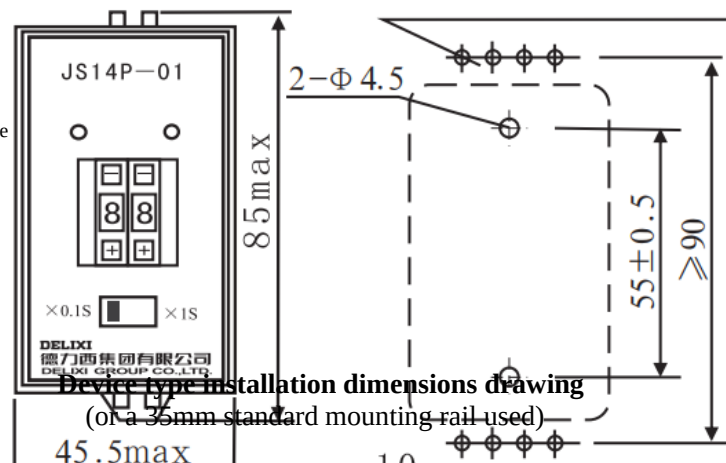


8- ϕ 4 holes are for back-panel wiring

JS14-01~07 Device type outline dimensions drawing



Device type installation dimensions drawing
(or a 35mm standard mounting rail used)



V. Installation and Operation Instructions

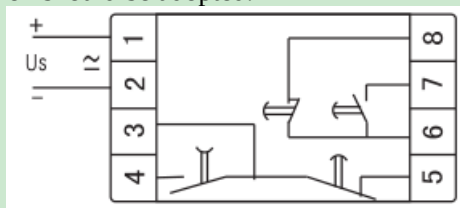
- 5.1 Please install the product according to the size of the mounting hole.
- 5.2 Properly connect the wire according to the wiring diagram. After each wiring terminal is connected, the connecting wire shall be sleeved with an insulating bush firmly. When installing the plug and socket, please align with the pins to prevent accidents caused by short circuit of the power supply.
- 5.3 Check that the power supply voltage must be consistent with the rated power supply voltage of the product;

5.4 Power-on delay type: Please present all required delay time before use. and then turn on the power; at this time the relay delay starts; when the preset time expires. the delay contact is converted to realize timing control.

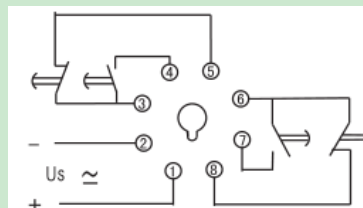
5.5 Power-off delay type: preset the required delay time. and then turn on the power; at this time. the relay delay contact will pull in. and the charging capacitor starts to charge; when the charging time exceeds 5 seconds. cut off the control power supply of product. and at this time the relay starts to delay; when the delay time reaches the preset value. the relay delay contact is converted to the release state to realize the timing control; this state will be maintained until the relay contact pulls in again when the next startup.

5.6 Operation Precautions:

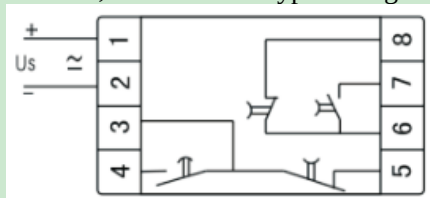
- 1) Be sure to weld the control line of the terminal block when wiring;
- 2) It is forbidden to install or dismantle the energized product.
- 3) The operating voltage of the relay shall be within the rated operating voltage range during operation.
- 4) The equipment that may cause major economic losses or personal safety is designed to make the technical characteristics and performance values have sufficient allowance. and safety measures such as double circuit protection should be adopted.



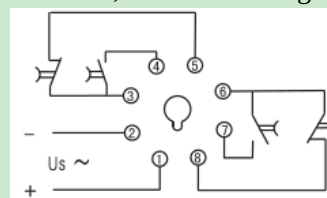
JS14P-01~07, JS14P device type wiring diagram



JS14P-01-07M, JS14P-M wiring diagram



JS14P-D wiring diagram



JS14P-D/M wiring diagram

VI. Common Faults and Troubleshooting

6.1 Not work after startup

The power terminal is not wired and the wiring is improperly connected or disconnected. and the power supply is not connected.

6.2 The relay works abnormally after power-on

Check the relay wiring connection and digital setting are correct; check the product for broken line or short circuit.

6.3 Troubleshooting

In case of failure of product. first cut off the power. and then find the cause of the failure; operate the product according to the Installation and Operation Instructions after checking that the line works normally.

If the product has the poor quality problem. please contact the local dealer or our company.

VII. Transport and Storage

The product shall be free from the rain or snow erosion or squeezing during storage and transportation. and shall be stored in well ventilated places where the relative humidity ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$) does not exceed 90%. the lower limit of the temperature is -25°C . and the upper limit of the temperature is $+55^{\circ}\text{C}$.

VIII. Unpacking and Inspection

Open the outer carton and check that there is the Operation Instruction in the packing box.

IX. Ordering Notice

Please specify the model and specification of the product when ordering. For Any special requirement. please contact the manufacturer.

X. Company Commitment

Under the condition that users follow the use and storage conditions and the product are well sealed. within 24 months from the production date. our company will provide repair and replacement service free of charge for any damage or abnormal operation due to poor manufacture quality. A paid repair will be provided if the warranty period expires. For any damage due to one of the following situations. a paid repair will be given even if within the warranty period:

- (1) Improper operation, maintenance, or storage;
 - (2) Modified without permission or improper repair;
 - (3) Damage due to falling off or caused during installation after purchase;
 - (4) Force majeure such as earthquakes, fires, lightning strikes, abnormal voltages, and secondary disasters;
 - (5) The electrical life of the product exceeds 100,000 times; The mechanical life is more than one million times.
- If you have any question, please contact the dealer or our company's customer service department.
Customer Service Hotline: 400-826-8008

 Certificate DELIXI GROUP CO., LTD.	Name: <u>Time Relay</u> Model: <u>JS14P Series</u> This product complies with the GB/T 14048.5 standard, passes the inspection and is allowed to be shipped Inspector: <u>Check 01</u> Production date: <u>See label on inner box</u>
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Manufacturer: Zhejiang Delixi Electrical Co., Ltd.

Address: No. 155, Zhongdong Road, Liushi Town, Yueqing City, Zhejiang P/C: 325604

Tel: (86-577) 61778888

Fax: (86-577) 61778000

Customer Service Hotline: 400-826-8008

www.delixi-electric.com

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