Type Test Certificate for Special Equipment (Lifts)

Certificate Number：TSX F36002220160097

Applicant：	Shenyang Bluelight Automatic Technology Co., Ltd.
Registered address of applicant：	No.37 Shiji Road, Hunnan New District, Shenyang City, Liaoning Province, China
Manufacturer：	Shenyang Bluelight Automatic Technology Co., Ltd.
Registered address of manufacturer：	No.37 Shiji Road, Hunnan New District, Shenyang City, Liaoning Province, China
Category of equipment：	Lift safety protection component
Type of equipment：	Safety circuits containing electronic components and/or programmable electronic systems (PESSRAL)
Name of product：	Safety circuits containing electronic components
Model of product：	SJT-ZPC-V2A
Type test report No.：	ETC16F360097、ETC26F360YZ087

After type test, it is confirmed that the product complies with the requirements of TSG T7007-2022 *Regulation for Type Test of Lifts*、GB/T 7588.1-2020、GB/T 7588.2-2020、ISO 8100-1:2019、ISO 8100-2:2019、EN 81-20:2020、EN 81-50:2020.

Applicable product model(s) of the certificate：SJT-ZPC-V2A

See appendix for applicable product parameters and configuration of the certificate.

（Stamp of organ）

Issue date： **2016-12-14**

Recertification date： **2026-10-29**

Revalidation date： **before 2030-12-14**

Shanghai Jiao Tong University Elevator Test Center

Note:

1. **The applicant has responsibilities to ensure that the products conform to the requirements of the safety technical specifications and relative standards, and to ensure that the quality and safety performance of products are consistent with the tested sample mentioned above.**
2. **This certificate is not applicable to product manufactured after the revalidation date.**
3. **If this certificate is revised, the validity period of the certificate remains unchanged.**

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Appendix

Applicable Product Parameters and Configuration

Product function	Control of levelling and re-levelling with doors open, UCMP detection subsystem		
Model of product	SJT-ZPC-V2A	Type of product	Printed circuit board
Operating voltage	DC24V、AC110V	Pollution degree	/
Environmental working conditions	Ambient temperature：0~65℃		
Response time (Applicable to the situation as a detection subsystem of unintended car movement protection (UCMP) means) (See Note 1)	≤81ms （Door zone sensor:≤3ms, printed circuit board:≤10ms, contactor:≤68ms）		

Note 1:
The configuration of the detection subsystem of UCMP means may include door zone sensor, door zone relay, printed circuit board, brake contactor and other possible components.
The response time of the detection subsystem is the sum of the design value of the response time of the printed circuit board and the maximum response time of other configured components provided by the applicant.
In actual use, the applicant can freely choose the configuration of the detection subsystem according to the specific situation, and the final total response time cannot be greater than the response time provided by this certificate.

Door zone sensor List

No.	Manufacturer	Model	Response Time
1	Shanghai Fuxiang Electromechanical	FX-T121/FX-T121E	≤1.8 ms
2	Changchun Huitong Optoelectronics	SGD31-GG-TZ2B2	≤1 ms
3	Changchun Huitong Optoelectronics	E3S-GS3E4	≤1 ms
4	Changchun Huitong Optoelectronics	E3S-GS3B4	≤1 ms
5	Shanghai Qiutong Control Electric Appliance Co., Ltd.	TNC-121	≤3 ms
6	Shanghai Qiutong Control Electric Appliance Co., Ltd.	TN.DS-25	≤1 ms

Door zone sensor List

（**continue**）

No.	Manufacturer	Model	Response Time
7	Ningbo Electronic Equipment Factory No.1	YG-10	≤1 ms
8	Ningbo Electronics	NDS-83-P0	≤1 ms
9	Ningbo Electronics	NDS-83-N0	≤2 ms
10	Suzhou Yilaide Electrical Technology Co., Ltd.	HDPN-1	≤1 ms
11	Changchun Shenghao Electronics Co., Ltd.	SH-GS3A4	≤2 ms
12	Fuqi Technology (Suzhou) Co., Ltd.	FX-PS1030M	≤1 ms
13	BEERKE	BRK-DS3E4	≤1 ms
14	Yongri Elevator	GX-GD-003	≤1 ms
15	Foshan Shihe Electromechanical Technology Co., Ltd.	E3S-GS30-A	≤1 ms
16	Carlo Gavazzi (Switzerland)	PF74CNT30B03376	≤1 ms
17	Changchun Huitong Optoelectronics	SGD31-GG-TZ2B2P	≤1 ms
18	Changchun Huitong Optoelectronics	SGD31-GG-TZ2B2F	≤1 ms
19	Changchun Huitong Optoelectronics	SGD31-GG-TZ2B2G	≤1 ms
20	Cedarsensor Co., Ltd.	GLS126NC	≤1 ms
21	Cedarsensor Co., Ltd.	GLS126NT.NC	≤1 ms

Notes：

When the parameter range and configuration listed in the appendix are changed, the type test shall be conducted again.

Report No. ETC26F360YZ087

Special Equipment

Type Test Report

(Lifts)

Category of equipment:	Lift safety protection component
Type of equipment:	Safety circuits containing electronic components and/or programmable electronic systems (PESSRAL)
Name of product:	Safety circuits containing electronic components
Model of product:	SJT-ZPC-V2A
Manufacturer:	Shenyang Bluelight Automatic Technology Co., Ltd.
Applicant:	Shenyang Bluelight Automatic Technology Co., Ltd.
Category of type test:	Fourth verification
Test date:	2026-10-26

Shanghai Jiao Tong University Elevator Test Center

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NOTICES

1、The report is the result of the type test according to the TSG T7007-2022 *Regulation for Type Test of Lifts*.

2、The report shall be printed by computer and be invalid with any modification.

3、The report will be invalid without the signature of approver、verifier and tester .It will also be invalid without the approval certificate、the cross-page official stamp of the type test entity.

4、Type test report is only valid for the sample.

5、Any dissents to the report must be put forward to the type test organ within 15 working days from receiving it. Otherwise, it is considered that the report is accepted.

6、The test samples shall be handled according to relevant regulations except that they are not returned due to legitimate losses.

7、The addresses of Elevator Test Center, Shanghai Jiaotong University are as follows:

(1) Dongchuan Road Laboratory

Room B210, School of Mechanical Engineering, Shanghai Jiaotong University

No.800, Dongchuan Road, Minhang District, Shanghai, P.R. China

Tel: +86-21-34207035/34207036

Fax: +86-21-34207035/34207036-814

Zip code: 200240

(2) Jindu Road Laboratory

Room 1001, Comprehensive Building, South Urban Park

No.123, lane 1165, Jindu Road, Minhang District, Shanghai, P.R. China

Tel : +86-21-61267037

Fax : +86-21-61267037 to 812

Zip code: 201108

Type Test Report

Category of equipment	Lift safety protection component	Type of equipment	Safety circuits containing electronic components and/or programmable electronic systems (PESSRAL)
Name of product	Safety circuits containing electronic components	Model of product	SJT-ZPC-V2A
Serial number of product	Y67LN69	Date of manufacture	2026-07-21
Applicable product model(s)	/		
Applicant	Shenyang Bluelight Automatic Technology Co., Ltd.		
Registered address of applicant	No.37 Shiji Road, Hunnan New District, Shenyang City, Liaoning Province, China		
Unified social credit code	91210112604650397R		
Manufacturer	Shenyang Bluelight Automatic Technology Co., Ltd.		
Registered address of manufacturer	No.37 Shiji Road, Hunnan New District, Shenyang City, Liaoning Province, China		
Unified social credit code	91210112604650397R		
Manufacturing address	No. 99 Chuangxin 1st Road, Hunnan New District, Shenyang City, Liaoning Province		
Location of test	Jindu Road Laboratory of Shanghai Jiao Tong University Elevator Test Center		
State of sample	No abnormal	Test date	2026-10-26
Test conditions	No abnormal	Category of type test	Fourth verification
Test basis	TSG T7007-2022 ***Regulation for Type Test of Lifts***, GB/T 7588.1- 2020, GB/T 7588.2-2020, ISO 8100-1:2019, ISO 8100-2:2019, EN 81-20:2020, EN 81-50: 2020		
Test Conclusion	Certificated.		

Tested by: Date: 2026-10-29	Approval certificate of type test organ: TS7610022-2029 Shanghai Jiao Tong University Elevator Test Center Issue date: 2026-10-29
Verified by: Date: 2026-10-29	
Approved by: Date: 2026-10-29	

1. Technical parameters and configuration of sample

Product function	Control of levelling and re-levelling with doors open, UCMP detection subsystem		
Model of product	SJT-ZPC-V2A	Type of product	Printed circuit board
Operating voltage	DC24V、AC110V	Pollution degree	/
Environmental working conditions	Ambient temperature：0~65℃		
Response time (Applicable to the situation as a detection subsystem of unintended car movement protection (UCMP) means) (See Note 1)	≤81ms （ Door zone sensor:≤3ms, printed circuit board:≤10ms, contactor:≤68ms）		

Note 1:
The configuration of the detection subsystem of UCMP means may include door zone sensor, door zone relay, printed circuit board, brake contactor and other possible components.
The response time of the detection subsystem is the sum of the design value of the response time of the printed circuit board and the maximum response time of other configured components provided by the applicant.
In actual use, the applicant can freely choose the configuration of the detection subsystem according to the specific situation, and the final total response time cannot be greater than the response time provided by this certificate.

2. Check for technical documents of the sample

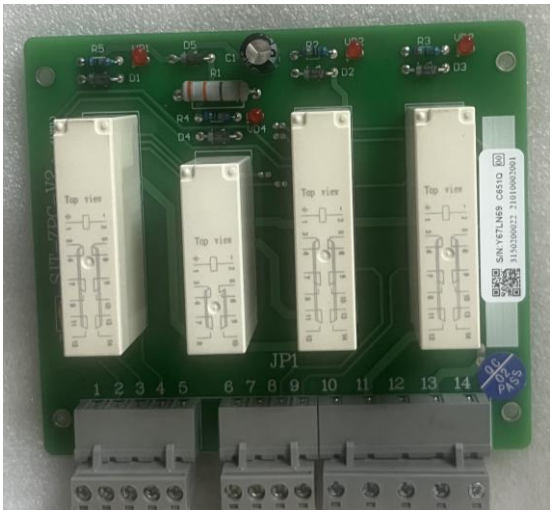
No.	Items No.	Check items	Check results	Conclusion
1	R5.1.1	Conformity certificate documents and instruction	Comply with requirements	Pass
2	R5.1.2	Technical documents for main construction parameter	Comply with requirements	Pass
3	R5.1.3.1	Relative technical documents of safety circuits	Comply with requirements	Pass
4	--	Requirements for using in special environment	N/A	N/A
5	--	Other necessary documents	N/A	N/A
6	--	Applicable products and the relative technical documents	N/A	N/A

3. Check and test of the sample

No.	Items No.	Check and test items	Check and test results	Conclusion
1	R6.2	Check for the function of safety circuit	Comply with requirements	Pass
2	R6.4	Temperature tests	Comply with requirements	Pass
3	R6.4	Vibration tests	N/A	N/A
4	R6.4	Bumping tests	N/A	N/A
5	R6.4	Crash test	N/A	N/A
6	R6.6	Nameplate	Comply with requirements	Pass
7	--	Validation of fault analysis	Comply with requirements	Pass

Annex

1. Photo of the sample



2. Photo of the temperature tests



3. Other information

(1) This type test is the verification of conformance with the performance of sample in the first test and the parameters and configuration in the Type Test Certificate according to the TSG T7007-2022 *Regulation for Type Test of Lifts*. Only parts of items in the Part 3 ‘Check and test of the sample’ were checked or tested.

(2) This English report is a translated version of the Chinese report and is issued on the same date as the Chinese report.

4. Revise(s) of the type test report

None.

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