



中国认可  
国际互认  
检测  
TESTING  
CNAS



# 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,P.R.China  
**Manufacturer** : ShenYang Bluelight Automatic Technology Co.,Ltd.  
**Manufacturing address** : No.99 ChuangXin 1st Road,Hunnan New District,Shenyang,P.R.China  
**Classification** : Safety device  
**Varieties** : Safety circuits containing electronic components  
**Product name** : Safety circuits containing electronic components and UCMP detection subsystem  
**Product model** : SJT-ZPC-V2A  
**Type test report number** : ETC18F360YZ069、ETC16F360097

This product meets the requirements of Regulation for Type Test of Lifts (TSG T7007-2016), GB 7588-2003+XG1-2015, EN 81-20:2014, EN 81-50:2014  
 Product models covered by this certificate: SJT-ZPC-V2A  
 For product parameters and configuration covered by this certificate, see the table attached.

(Stamp)

**Date of issue** : 2016-12-14  
**Date of change** : 2018-12-11  
**Expiry date** : 2020-12-14



**Shanghai Jiao Tong University Elevator Test Center**

- Note:**
1. The applicant is responsible for confirming that the products comply with the regulation and related standard specifications and are in accordance with the sample for type test.
  2. The certificate is valid before the expiry date.
  3. Period of validity of the certificate is always calculated from the date of issue even if the certificate is modified per request.

**Product Parameters and Configurations Table**

|                          |                             |   |                             |   |
|--------------------------|-----------------------------|---|-----------------------------|---|
| Function description     |                             | Control of levelling and re-levelling with doors open、UCMP detection subsystem  |                             |   |
| Product model            |                             | SJT-ZPC-V2A   | Type of structure           | Printed circuit board                               |
| Working voltage          |                             | DC24V<br>AC110V   | Pollution level             | /   |
| Working conditions       |                             | Ambient temperature: 0~65℃  |                             |   |
| UCMP detection subsystem | Hardware model and version  | /   | Software model and version  | /   |
|                          | Main component of hardware  | Flat layer sensor(Model see flat level sensor list)+Printed circuit board   |                             |   |
|                          | Installation position       | Car top, control cabinet and hoistway   | Distance when detecting UCM | ≤150mm  |
|                          | Working environment applied | indoor  | Response time               | Printed circuit board:<br>≤10ms<br>Contactor: ≤68ms |
|                          | Stopping subsystem type     | 1. Acting on the car or the counterweight<br>2. Acting on the rope system (suspension or compensating)<br>3. Acting on the trave or the same shaft as the traction sheave provided the shaft is only statically supported in two points, or |                             |   |

## Annex instructions:

1. When the parameters listed in the table change, the new type test should be carried out.

2. If the modifications or changes occurred in the design and manufacture of products, the applicant ought to inform the original type test agency in writing, and provide the necessary technical documents. The original type test agency will confirm the effectiveness of type test report and test certificate, subsequently.



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## Special Equipment Type Tests Report (Lifts)

**Classification** : Safety device

**Varieties** : Safety circuits containing electronic components  
and UCMP detection subsystem

**Product Name** : Safety circuits containing electronic components

**Product Model** : SJT-ZPC-V2A

**Manufacturer** : ShenYang Bluelight Automatic Technology Co.,Ltd.

**Applicant** : ShenYang Bluelight Automatic Technology Co.,Ltd.

**Category of test** : Consistency checking

**Test Date** : 2018.12.04

Shanghai Jiao Tong University  
Elevator Test Center



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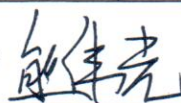

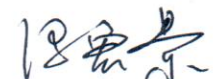



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## Type Tests Report

No: ETC18F360YZ069

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|   |  |   |   |
|---|--|---|---|
| Classification  | Safety device  | Varieties   | Safety circuits containing electronic components and UCMP detection subsystem |
| Product name  | Safety circuits containing electronic components   | Product model   | SJT-ZPC-V2A   |
| Product number  | LG181002   | Date of manufacturing   | 2018-10-16  |
| Applicable product models   | /  |   |   |
| Applicant   | ShenYang Bluelight Automatic Technology Co.,Ltd.   |   |   |
| Registered address of applicant   | No.37 Shiji Road,Hunnan New District,Shenyang,P.R.China  |   |   |
| Manufacturer  | ShenYang Bluelight Automatic Technology Co.,Ltd.   |   |   |
| Registered address of manufacturer  | No.37 Shiji Road,Hunnan New District,Shenyang,P.R.China  |   |   |
| Manufacturing address   | No.99 ChuangXin 1st Road,Hunnan New District,Shenyang,P.R.China  |   |   |
| Location of test  | Shanghai Jiao Tong University Elevator Test Center   |   |   |
| Status of sample  | OK   | Test date   | 2018-12-04  |
| Test conditions   | OK   | Category of test  | Consistency checking  |
| Test Rules  | Regulation for Type Test of Lifts (TSG T7007-2016),<br>GB7588-2003+XG1-2015,<br>EN 81-20:2014, EN 81-50:2014 |   |   |
| Test Conclusion   | Type Tests Passed  |   |   |
| Experimenter:  | Date: 2018.12.11   | Approved certificate serial number:<br><br>TS7610022-2021<br>Shanghai Jiao Tong University<br>Elevator Test Center<br>Date of issue: 2018-12-11 |   |
| Verifier:      | Date: 2018-12-11   |   |   |
| Approver:      | Date: 2018.12.11   |   |   |

上海交通大学  
电梯检验中心  
检验报告专用章

**1、 Main technical parameters and configurations**

|                          |                             |   |                             |   |
|--------------------------|-----------------------------|---|-----------------------------|---|
| Function description     |                             | Control of levelling and re-levelling with doors open、UCMP detection subsystem  |                             |   |
| Product model            | SJT-ZPC-V2A                 | Type of structure   | Printed circuit board       |   |
| Working voltage          | DC24V<br>AC110V             | Pollution level   | /                           |   |
| Working conditions       |                             | Ambient temperature: 0~65℃  |                             |   |
| UCMP detection subsystem | Hardware model and version  | /   | Software model and version  | /   |
|                          | Main component of hardware  | Levelling sensor+Printed circuit board  |                             |   |
|                          | Installation position       | Car top, control cabinet and hoistway   | Distance when detecting UCM | ≤150mm  |
|                          | Working environment applied | indoor  | Response time               | Printed circuit board:<br>≤10ms<br>Contactor: ≤68ms |
|                          | Stopping subsystem type     | 1. Acting on the car or the counterweight<br>2. Acting on the rope system (suspension or compensating)<br>3. Acting on the trave or the same shaft as the traction sheave provided the shaft is only statically supported in two points, or |                             |   |

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**2、 Reviews for technical documents of the sample**

| No. | Item number | Review item   | Review results | Conclusion |
|-----|-------------|---|----------------|------------|
| 1   | R5.1.1      | Qualified certificate and instruction manual        | Pass           | OK         |
| 2   | R5.1.2      | Technical information of main structural parameters | Pass           | OK         |
| 3   | R5.1.3.1    | Technical information of safety circuit             | Pass           | OK         |



| No. | Item number | Review item                                       | Review results  | Conclusion |
|-----|-------------|---|-----------------|------------|
| 4   | T5.2        | Technical information of UCMP detection subsystem | Pass            | OK         |
| 5   | --          | Other necessary materials                         | Inapplicability | /          |

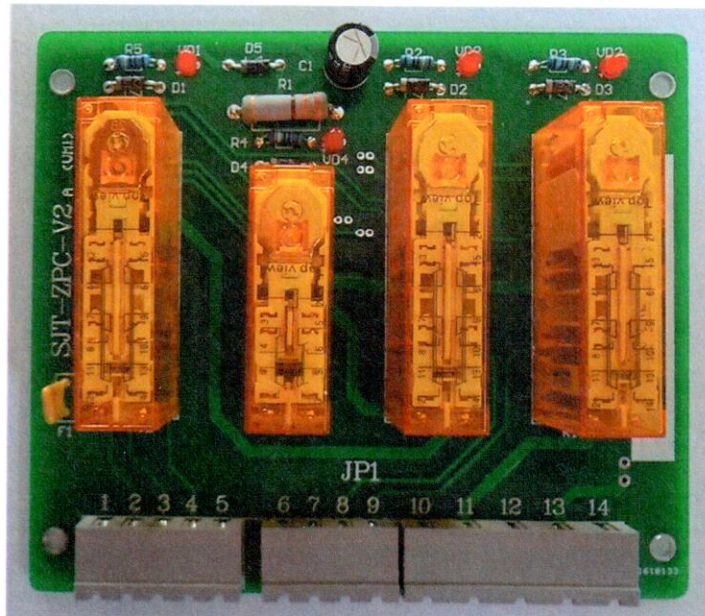
### 3、 Examines and tests of the sample

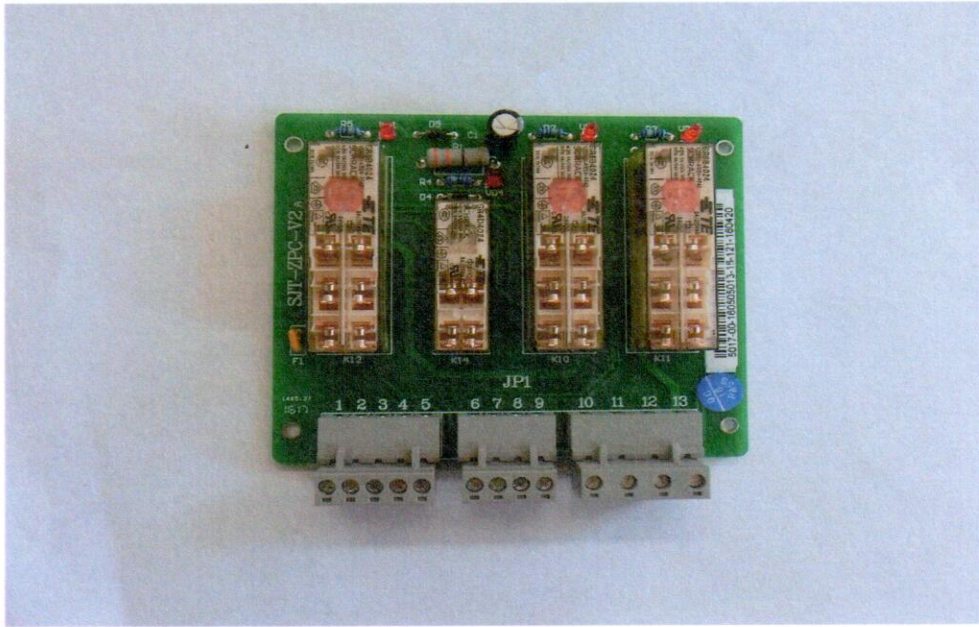
| No. | Item number | Test item   | Results         | Conclusion |
|-----|-------------|---|-----------------|------------|
| 1   | R6.1        | Sample requirements   | Pass            | OK         |
| 2   | R6.2        | Safety circuit function check   | Pass            | OK         |
| 3   | R6.4        | Temperature test  | Pass            | OK         |
| 4   | R6.4        | Vibration test  | Inapplicability | /          |
| 5   | R6.4        | Impact test   | Inapplicability | /          |
| 6   | T6.2        | Correctness of UCMP action sequence and output situation(test for 10 times) | Inapplicability | /          |
| 7   | T6.2        | Response time test (The maximum)  | Inapplicability | /          |
| 8   | T6.2        | Vibration test for sensor of safety circuit                                 | Inapplicability | /          |



### Annex:

1. Photograph of the sample:





2. Type test report changes  
None

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