



Type Test Certificate for Special Equipment (Lift)

Certificate Number TSX F36002220220039

Applicant	SHENYANG BLUELIGHT NEW GENERATION TECHNOLOGY CO., LTD.
Registered address of applicant	No.37 Shiji Road, Hunnan New District, Shenyang, China
Manufacturer	SHENYANG BLUELIGHT NEW GENERATION TECHNOLOGY CO., LTD.
Registered address of manufacturer	No.37 Shiji Road, Hunnan New District, Shenyang, China
Category of equipment	Lift safety protection component
Type of equipment	Programmable electronic system in safety-related applications
Name of product	Programmable electronic system in safety-related applications for lifts (PESSRAL)
Model of product	SJT-STO-V2.1
Type test report No.	ETC22F360039

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 81-20:2014 EN 81-20:2020 EN 81-50:2014 EN 81-50:2020 GB/T20438-2017 GB28526-2012 GB/T35850.1-2018 IEC61508:2010 IEC62061:2015 ISO22201:2017.

Applicable product model(s) of the certificate SJT-STO-V2.1

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

Stamp of organ

Issue date 2022-08-04

Revalidation date before 2026-08-04

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.

Appendix

Applicable Product Parameters and Configuration

Major parameters	Hardware model and version	SJT-STO-V2.1 24VDC Safety circuit SJT-STO-V2.1 110VAC Safety circuit
	Software model and version	2070_0002
	Programmable electronic device type	MCU
		STM32F103C8 or GD32C103C8 or STM32F103CB or GD32C103CB
	Working condition	-
	Working voltage	DC5V
	Pollution degree	3
System composition	SJT-STO-V2.1*1	
Safety Function		Safety Integrity Level
1	Safe torque off (STO) function for traction and positive drive	SIL3(hardware fault)
Main component list logic subsystem		
1	Microprocessor STM32F103C8 or GD32C103C8 or STM32F103CB or GD32C103CB (*1)	
2	Power chip AP2204K-3.3TRG1 *1 B0505S-1WR3 *1	

2	PCBA production: Dalian Shengdong electronic Co., Ltd. or Shenyang Kehairongsheng technology Co., Ltd.
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Note to attached table

1. When the parameter or configuration listed in the attached table has been changed, The type test must be done again.
2. When a safety function is not used, the corresponding sensor or detector may not be configured. Apart from this, the major parameters, system composition, main components (brand, model and quantity) and main manufacturing process must all be completely consistent with the content of the above tables. If a component allows multiple brands and models, the brands and models can be used alternatively.