EU-Type Examination Certificate

Reg.-No.: 01/208/4A/6135.01/23

Product tested	- Electric safety device - Safety circuit with electronic components - Electronic monitoring circuits	**Certificate holder**	BÖHNKE + PARTNER GmbH Steuerungssysteme Heinz-Fröling-Str. 12 51429 Bergisch Gladbach Germany
Type designation	SPL-01A (Subarea of the printed circuit board SPL-01A of the system module bp408)		
Codes and standards	Directive 2014/33/EU EN 81-20:2020, 5.11.2.3		EN 81-50:2020, 5.6, 5.8.3.2.4, 5.15
Intended application	Use in passenger and goods passenger lifts as safety circuit with electronic components: - Detection of unintended car movement with open doors acc. to EN 81-20, 5.6.7.7 - Bypass of the door and locking element switches during levelling and re-levelling with open doors acc. to EN 81-20, 5.12.1.4 a) as electronic monitoring circuits: - Connections for gathering information acc. to EN 81-20, 5.11.2.1.2 at different points of the electric safety chain.		
Specific requirements	The instructions of the associated Installation and Operating Manual and the appendix to this certificate shall be considered.		

It is confirmed, that the product tested complies with the requirements for lifts defined in the EU-Directive 2014/33/EU.

Valid until 2028-07-26

The issue of this certificate is based upon an examination, whose results are documented in Report No. 968/FSP 1247.03/23 dated 2023-06-23.
This certificate is valid only for products which are identical with the product tested.

TÜV Rheinland 0035 Notified Body

Köln, 2023-07-26

Notified Body for Lifts and their Safety Components, NB 0035

Dipl.-Ing. Georg Theisen

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Annex to EU Type-Examination Certificate Reg.-No. 01/208/4A/6135.01/23

1.	Component	- Electric safety device - safety circuit with electronic components - Electronic monitoring circuits	
2.	Manufacturer	Böhnke + Partner GmbH Steuerungssysteme Heinz-Fröling-Str. 12 51429 Bergisch Gladbach Germany	
3.	Designation / Type	Subarea of the printed circuit board SPL-01A of the system module bp408	
4.	ID-No. / Marking on the component	01/208/4A/6135.01/23 and adhesive label acc. to the nominal voltage of the safety chain: 230V / 110V / 48V compatible with 01/208/5A/6020.00/15 and 01/208/4A/6135.00/18	
5.	Area of application	For use in passenger and goods passenger lifts	
6.	Previous test regulations	EN 81-1/-2:1998 + A3:2009 (The 230 VAC type variant is compatible with 01/208/5A/6020.00/15)	
7.	Intended use	Safety circuit with electronic components: - Detection of unintended car movement with open doors acc. to EN 81-20, 5.6.7.7, - Bypass of the door and locking element switches during levelling and re-levelling with open doors acc. to EN 81-20, 5.12.1.4 a) Electronic monitoring circuits: Connections for gathering information acc. to EN 81-20, 5.11.2.1.2 at different points of the electric safety chain	
8.	Characteristics		
8.1	Characteristics safety circuit	Output voltage range, terminals X2.1 („SSZ“) -> X1.1 („COM“) resp. -> X1.2…X1.4 („K11“, „K12“, „K13“):	depending on type variant: max. 230 VAC / 110 VAC / 48 VAC/VDC
		Fuse protection of the output circuit:	max. 2 A
8.2	Characteristics monitoring circuits	Input voltage, terminals X2.3…X2.8 („10“, „11“, „12“, „12A“, „12B“, „13“):	depending on type variant: max. 230 VAC / 110 VAC / 48 VAC/VDC
		Neutral lead:	X2.2 (“9”) and X2.9 (“14”)
		Input current per monitoring circuit:	typ. 4 mA
8.3	Common characteristics	Pollution degree:	3
		Material group:	IIIa
		Protection degree:	IP > 43 (to be ensured by housing/enclosure)
		Operating temperature:	0…+60°C
		Max. altitude above sea level - type variants 230 VAC and 110 VAC: 2,000 m - type variant 48 VAC/VDC: 4,000 m	
		Further technical data see operating manual of the component SPL-01 V1 of company BÖHNKE + PARTNER GmbH Steuerungssysteme.	
9.	Maintenance	The correct operation has to be checked periodically.	
10.	Installation	- The specifications in the operating manual for installation, commissioning as well as operation of the component SPL-01A have to be considered. The relevant national regulations and the EN 81-20 have to be followed on the installation and an EMC-compatible wiring has to be ensured.	

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10. Installation (cont'd)	- By the selection of an appropriate installation place it has to be ensured that environmental influences like water, conductive dust and condensation don't have a negative impact on the safety-related operation if the component. - The N-wire to the coils of the safety-relevant contactors shall be connected according to the specifications of the operating manual and must not have any further connection to N-wires of the remaining control system.
11. Specific conditions	In line with the commissioning and the recurring checks of the lift the following checks have to be performed: - Check of the correct installation, - Check of the hardware version, - Check of the safety function according to the inspection instructions in the operating manual, - Check of the N-wire interruptions of the monitoring circuits according to the inspection instructions in the operating manual. Specific conditions for the safety function „Detection of an unintended movement of the lift car with open doors" acc. to EN 81-20, clause 5.6.7.7: - The retention of the tripped state of the protection means - even beyond the interruption of the power supply - has to be performed by an additional measure outside of the safety circuit. - As tripping time of the safety circuit for the detection of an unintended movement **10 ms** have to be considered. Response times of upstream sensors (e.g. zone switch) and downstream actors (e.g. disengaging device, equipment for stopping holding the lift car) are not contained herein and have to be considered separately.