

Report of random check

Lifts Directive 2014/33/EU

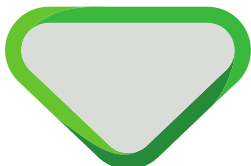
Report belonging to certificate of conformity to type number : NL24-400-1002-244-RC01
Date of issue : 30-10-2024
Revision number / date : - / -
Subject : Random check of safety components
Assessment basis : Lifts Directive 2014/33/EU
Date of random check : 30-05-2024
Random check performed by : Tolga Göktaş
Project number : P240170

1. Related EU-type examination certificates

Name and address certificate holder : Hedefsan Elektronik Asansör Turizm San Ve Tic.Ltd.Şti
Büsan Özel Organize Sanayi Fevzi Çakmak Mahallesi Demir Caddesi Doruk Sanayi Sitesi
No:15/D, 42050
Karatay - Konya - Türkiye

Name and address of manufacturer : Hedefsan Elektronik Asansör Turizm San Ve Tic.Ltd.Şti
Büsan Özel Organize Sanayi Fevzi Çakmak Mahallesi Demir Caddesi Doruk Sanayi Sitesi
No:15/D, 42050
Karatay - Konya - Türkiye

Product description	Type	EU-type examination certificate no.	Rev. no.	Date of issue
Lift Controller including interface board	HD-BE Main board, including: HDB Terminal board HD_TBX_CAR_V1P01 HD_TBX_HV_V1P02 HD-TBX_PIT_V1P02	NL18-400-1002-244-01	2	05-09-2024
Lift Control Panel for electric and hydraulic lifts	HD-BE Lift Control Panel	NL19-400-1002-244-02	1	12-09-2024



2. Description of safety component

NL18-400-1002-244-01 rev.2

- Technical details : HD-BE Ver: 1.2 (SW Version V1.4 or higher), including HDB Terminals board
- Usage : PCB Controller board for lifts with door bridging circuit, monitoring circuit for safety chain and supervision of control
- Limits of use for component : HD-BE Ver:1.2 Main PCB:
 - Terminals 10A / 10B connected to Neutral;
 - Terminals 120 / 130 / 135 / 136 / 140 at connector J13, safety chain, max voltage 250 VAC;
 - Terminals RTB / RTA / 2 / 1 / R1B / R1A / RPB / RPA at connector J2, SAK / KAK / RLC at connector J3 all with a maximum voltage of 250 VAC;
 - Terminals RU2 / RU1 / V3 / V2 / V1 / V0 / 11 at connector J4 and RO4 / RO3 / RO2 / RO1 at connector J5 all with a maximum voltage of 48 VDC.

HDB Terminals Board:

- Terminals ML1 / ML2 with a maximum of 24 VDC.
No connections to safety chain.

HD_TBX_CAR_V1P01

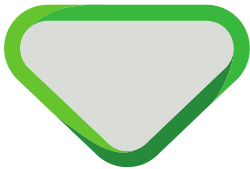
- Terminals LIM1 / LIM2 / OG1 / OG2 / PK1 / PK2 / STP1 / STP2 / HK1 / HK2 / KC1 / KC2 / 118 / 119A / 119B / 120 / 130 / 135, safety chain, max voltage 250 VAC;

HD_TBX_HV_V1P02

- Terminals 110 / 110A / 110B / 110C / 110E / 111 / 113 / 116 / 117 / 118 / 119A / 119B / 120 / 130 / 135, safety chain, max voltage 250 VAC;
- Terminals ML1 / ML2 with a maximum of 24 VDC.

HD-TBX_PIT_V1P02

- Terminals 111 / 112 / 112A / 113 / 114 / 115 / 116 / 119A / 119B, safety chain, max voltage 250 VAC;



NL19-400-1002-244-02 rev.1

The Hedefsan HD-BE Lift Control Panel is a complete lift controller which can be used for VVVF electric lifts and hydraulic lifts. It can be a MR version or a MRL version. The Hedefsan HD-BE Lift Controller contains PCB's connected to the safety circuit. These PCB's have been subjected to EU-type examinations and fulfill the requirements of EN 81-20 and EN 81-50.

Functional description regarding operation:

The EU-Type certified Printed Circuit Board (PCB) HD-BE Ver:1.2 is a controller board for electric and hydraulic lifts. The PCB has several safety related parts:

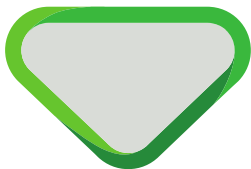
- a part for monitoring the safety circuit,
- an interface section for supervision of the main contactors,
- a part which controls the door bridging (DBB), also applied as Unintended car Movement (UCM) detector,
- a part of programmable inputs which take care of several required monitoring functions.

The controller has the following, not finite, EN 81-20 features, which are not yet mentioned above:

- landing and car door by-pass system by the use of the BYPASS switch*
- 2 inspection operation stations, 1 recall operation station
- 2 meter stops for switching off inspection drive speed above 0,3 m/s
- devices outside the well for test operations (EN 81-20 Test Panel)
- brake release by continuous manual operation
- protection for maintenance operations
- monitoring of contactors
- monitoring of brake contacts
- car door nudging

* In the new PCB HD_TBX_HV_V1P02, the door bypass system is implemented using a plug with a fixed connection to the board. For normal operation, the plug must be connected to the "NORMAL" port. The door bypassing configuration is as follows:

- 120-130: Car Door A
- 130-135: Car Door B
- 135-136: Landing Door B
- 136-140: Landing Door A



The HD-BE Ver:1.2 has an on-board Door Bridging Circuit (DBB). The door-bridging circuit is designed as a safety circuit capable of bridging the door and door-lock safety switches. With this option the lift is able to move the car with the doors open for level, re-level and anti-creep purposes. Relays RL23, RL24 and RL25 form a so called A, B, C circuit. Any fault which can occur will result in a safe-state situation. All faults in this circuit are detected by the controller and result in a permanent safe-state situation.

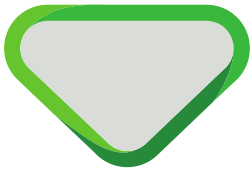
When re-leveling is used this part can also detect UCM. When the car leaves the landing zone with open doors it leads to an open safety circuit because of the door-bridging circuit becoming inactive. The UCM detection status is stored in a non-volatile memory and is cleared only when a dedicated unblocking action is performed. For this action, the lift maintenance person has to select the related menu in the lift controller in order to reset the lift.

Field Test

Field tests as requested by EN 81-20 clause 6.3.13 can be performed to check the correct operation of the complete UCM solution. To perform the field tests a special menu is written in the HD-BE Ver:1.2. Detailed field test instructions are given in the “Hedefsan User Manual HD-BE” document accompanying this controller.

Technical details	: Hedefsan, HD-BE Lift Control Panel
Usage	: PCB Controller board for lifts with door bridging circuit, monitoring circuit for safety circuit and supervision of control
Main board incl interface boards	: HD-BE Ver:1.2 Main PCB - EU-type cert: NL18-400-1002-244-01 HDB Terminals Board HD Seri HV-1.0 HD Door Pro Ver-1.0 HD_TBX_CAR_V1P01 HD_TBX_HV_V1P02 HD-TBX_PIT_V1P02
Inverter / Drive	: Hd Driver Inverter - HD_DRV_CPU_V4.00
Technical Data	: Schneider LC1D contactors Schneider LC1E contactors CHINT NXC contactors
Software version main board	: V1.4 or higher

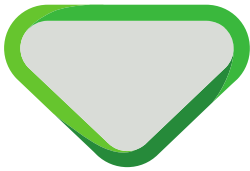
Further properties and conditions are given in the EU-type examination certificates mentioned under chapter 1.



3. Examinations and Tests

A sample of ready safety components was randomly taken at the manufacturers premises. The following examinations and tests (where applicable) were carried out:

1. Examination of the measures carried out by the manufacturer, to ensure the continuous conformity of the ready safety component with the applicable EU-type examination certificate in the following areas:
 - Material procurement
 - Receipt of goods
 - Production
 - Assembly
 - Finish adjustment and functional tests
 - Documentation
2. Inspection of quality records and test records
3. Comparison of the current drawings – especially drawings for the production – with the EU-type certified documentation.
4. Comparison of a safety component randomly taken out of the production with the EU-type certified documentation, to check validity of material specification, drawings and parts list
5. Comparison of components with the basis of examination
6. A check of validity of component specification, layout documents, software and a test procedure;
Performance of a functional test.



4. Results of the random check

The checked safety components mentioned under chapter 1 were found in compliance with the technical documentation.

5. Conclusions

Liftinstituut BV declares, based on the results of the random check, that the examined safety component is in conformity with the EU-type certified safety component and issues the certificate of conformity to type.

6. CE marking

Each safety component that is in conformity with the EU-type certified safety component mentioned under chapter 1 shall be CE-marked according to annex IX pt. 5 of the Lifts Directive 2014/33/EU under consideration that conformity with eventually other applicable Directives is proven.

Following annex IX pt.5 of the Directive, the CE-marking shall be accompanied by the Notified Body identification number no. 0400 of Liftinstituut B.V.

7. Intervals of the random check

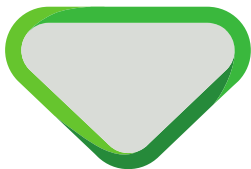
The next random check shall be carried out within the applicable interval, with the aim to keep the right to apply the Notified Body identification number 0400 of Liftinstituut BV. Unless otherwise agreed the interval of the random checks is yearly.

Prepared by:

Tolga Göktepe
Product Specialist Certification

Certification decision by:

P.J. Schaareman
Product Manager C&S



Annex

Annex 1. Revision of the certificate and its report

Rev.:	Date	Summary of revision
-	30-10-2024	Original

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