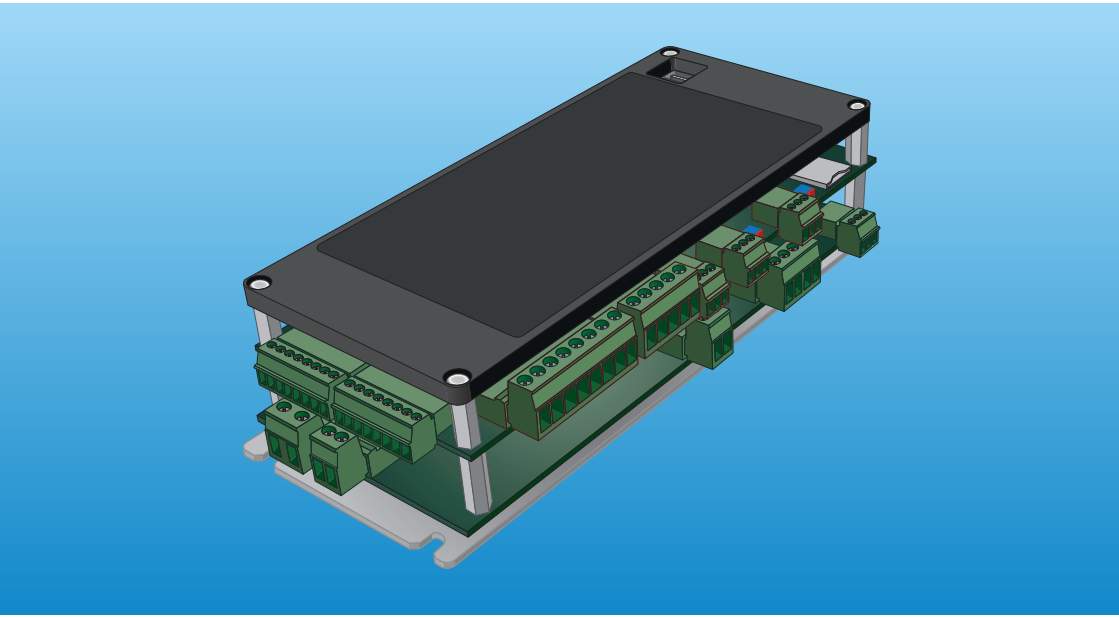
THOR
Engineering GmbH

Thor E2



hardware manual

Thor E2 manual, v1.00

Technical data

Power Consumption:	Idle: 2,5 W; Max: 4,5 W
Interface:	Ethernet, Micro SD, 2 x USB Host, 1 x RS485 (DCP)
Battery:	CR2032, Lithium 3V
Display interface:	5 Inch LCD, 24 bit colour, 960 x 480 resolution, Capacitive Multi- touch glass
Inputs:	24 V: 24 x 24 V inputs (I1, I2, I4). Thereof 2 x 24 V inputs with constant 30 mA current for contactor/brake monitoring. 230 V AC: 2 x 230 V AC for Car light and Powersupply
Outputs:	24 V: 16 x high side (O1, O2) 350 mA short circuit protected general purpose 230 V AC: 5 x 5 A, 230 V, relay output
Speaker output:	2 x 2 W
Safety Circuit Input:	6 x 230 V AC inputs

Table of content

Safety information

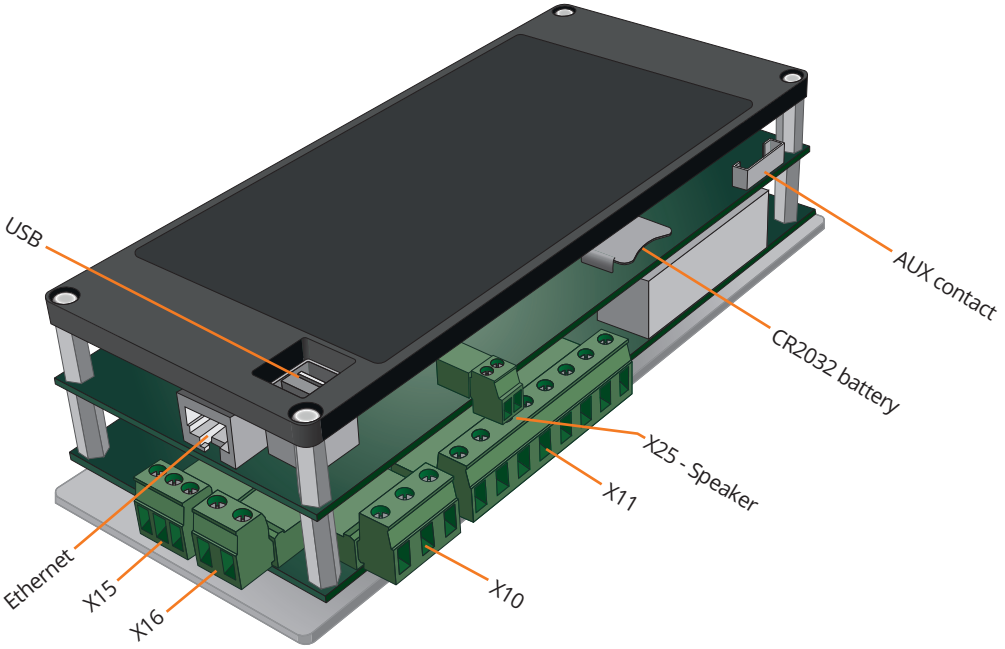
Liability

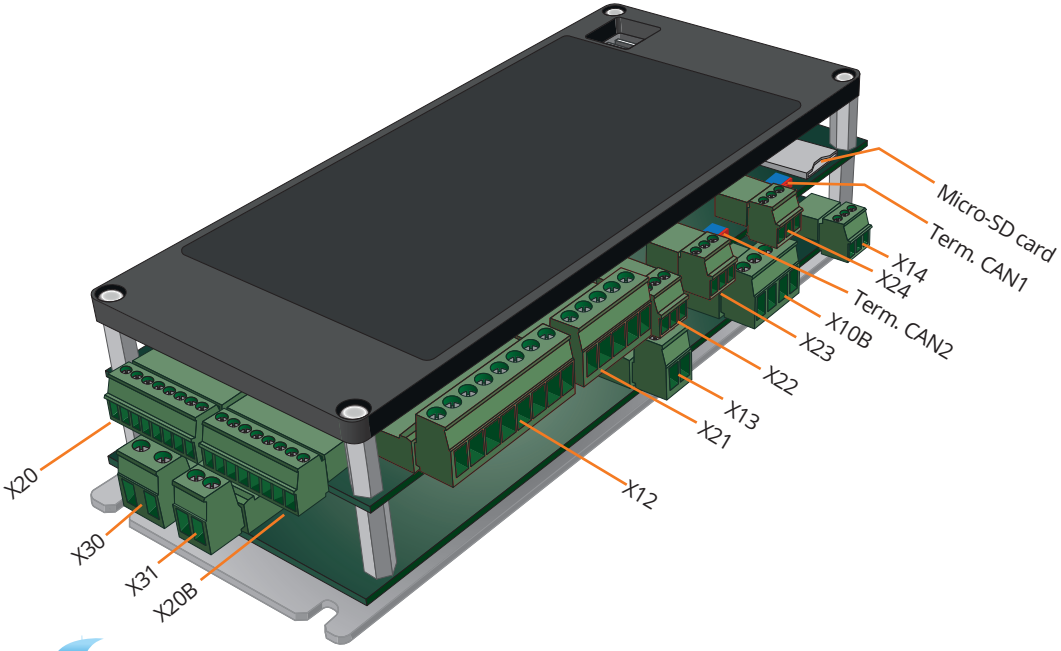
Thor Engineering GmbH or any of it's collaboration partners is not liable with respect to the buyer of this product or to any third parties for damage, loss, costs or work incurred as a result of accidents, misuse of the product, incorrect installation or illegal changes, repairs or additions. Claims under warranty are likewise excluded in such cases. Thor Engineering GmbH accepts no liability arising from printing errors, mistakes or changes.

Safety Precautions!

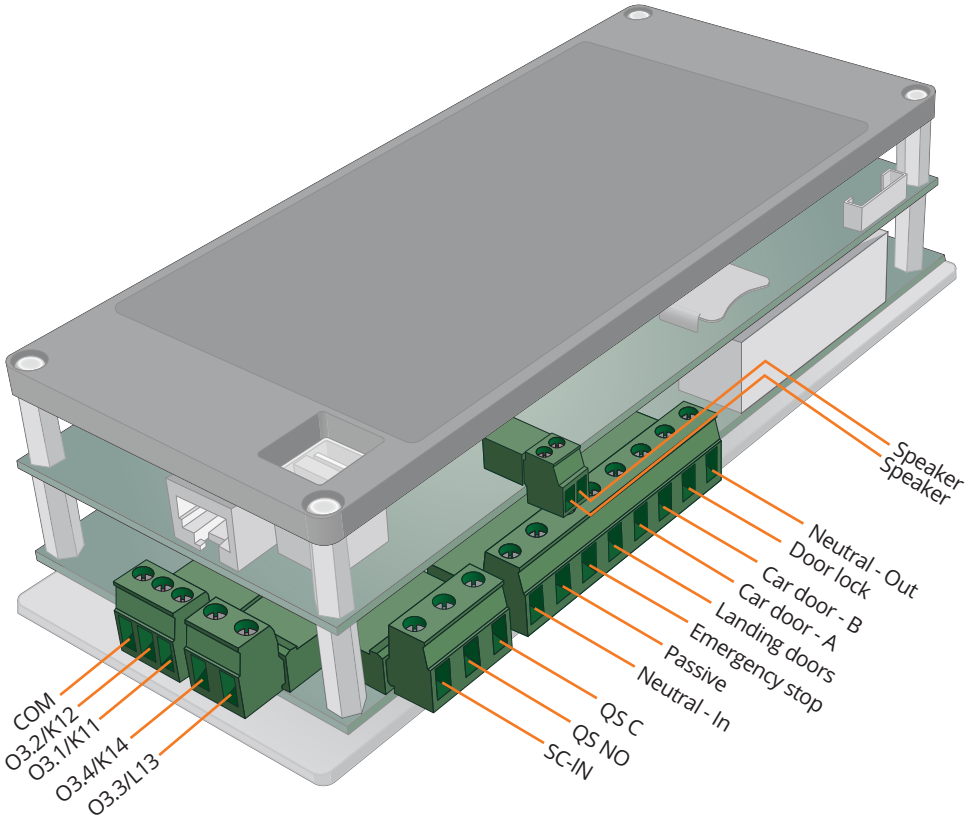
- Only trained professionals, that are authorised to work on the equipment, should install, configure and use this product.
- This product is intended for the elevator industry. It has been designed and manufactured to be used for its specified purpose only. It must not be used for any other purpose without Thor Engineering GmbH's consent.
- The product cannot be modified or altered in any way and should only be installed and configured strictly following the procedures described in this manual.
- All applicable health and safety requirements and equipment standards must be considered and strictly adhered to, when installing and configuring this product.
- After installing and configuring this product, the operation of the equipment should be fully tested to ensure correct operation, before the equipment is returned to normal use.

Overview

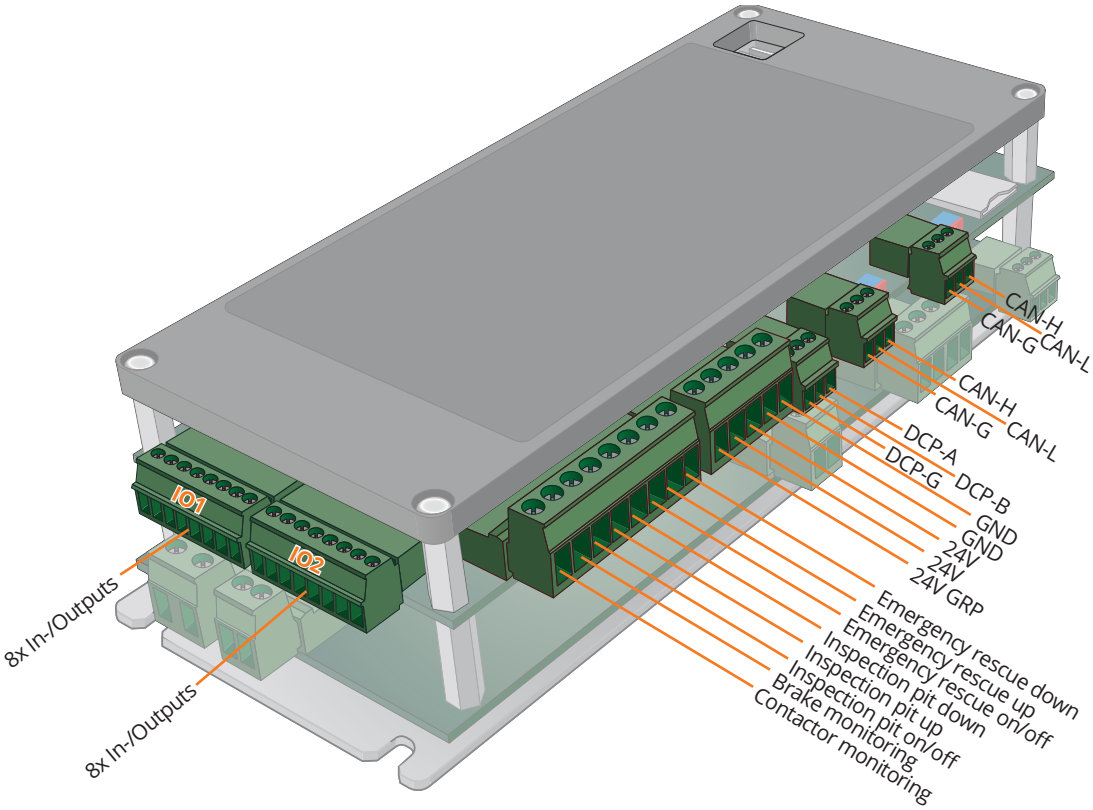

USB
AUX contact
CR2032 battery
X25 - Speaker
X11
Ethernet
X15
X16
X10


Micro-SD card
Term. CAN1
X14
X24
Term. CAN2
X10B
X23
X22
X13
X21
X12
X20
X30
X31
X20B

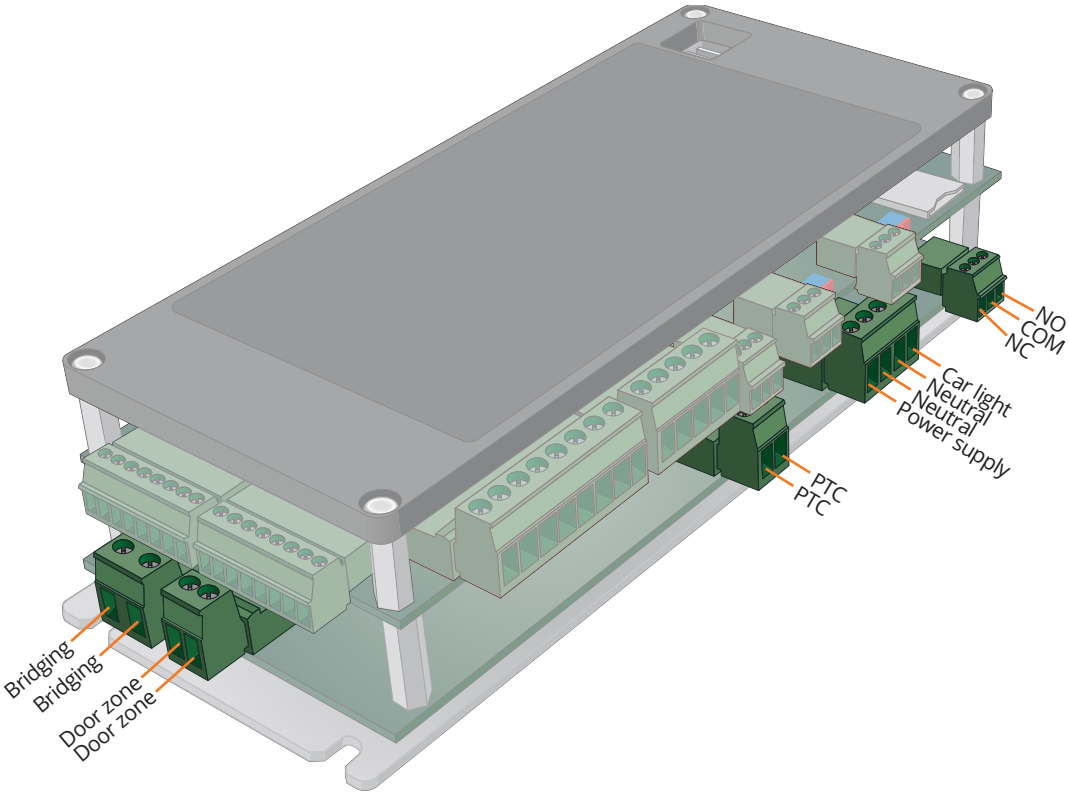
Connections



Connections top board

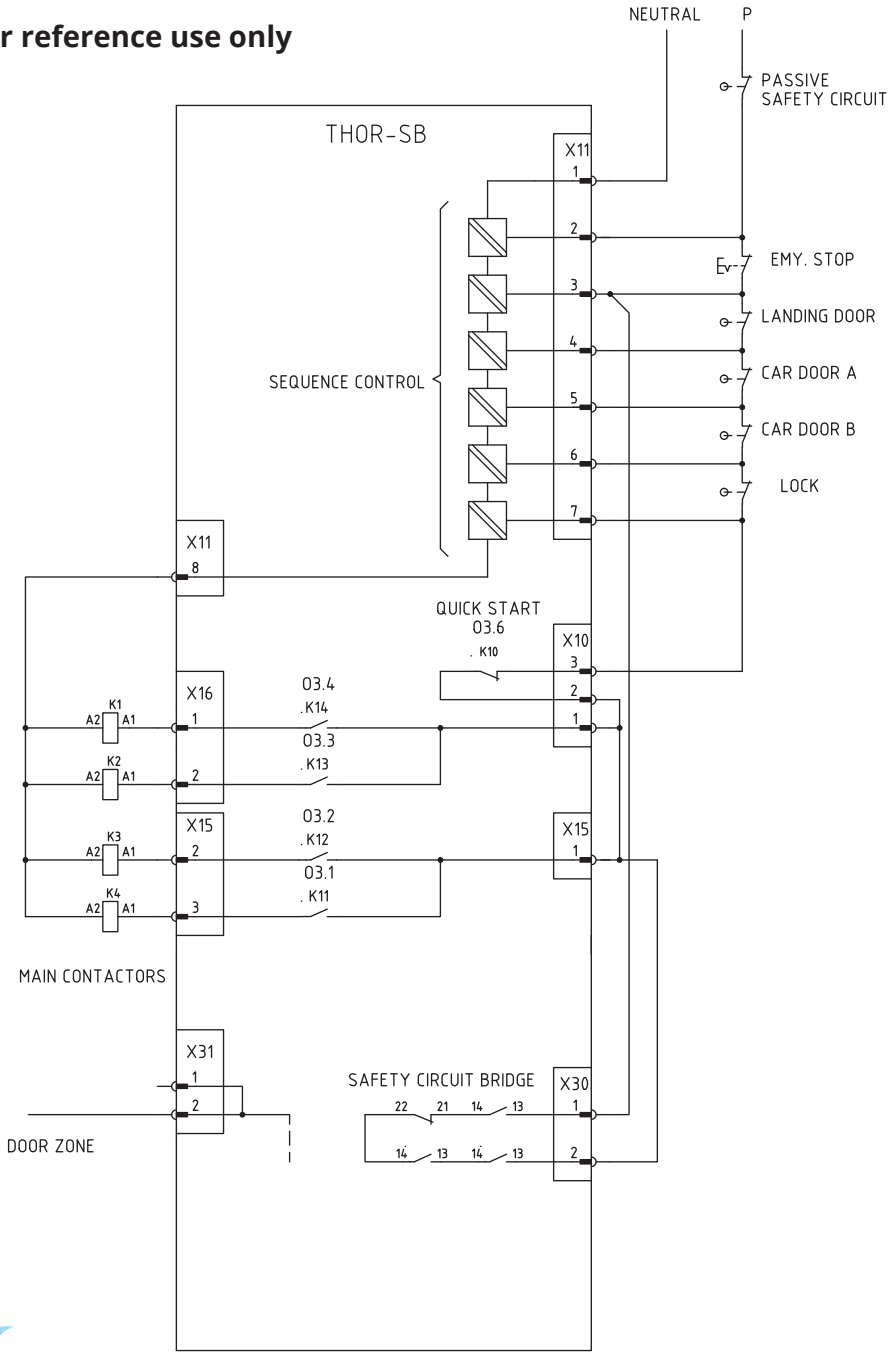


Connections bottom board



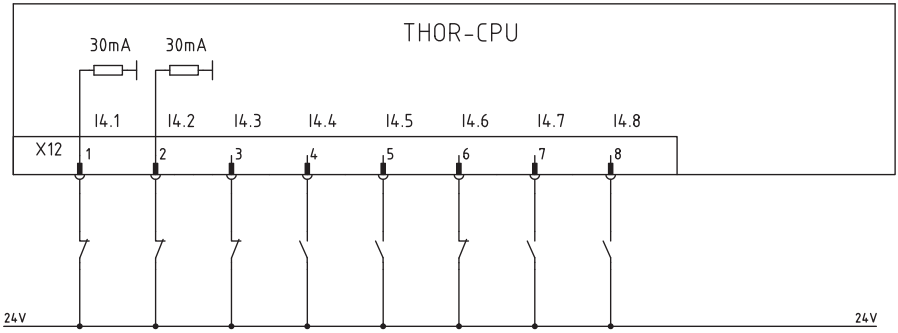
Connections top board

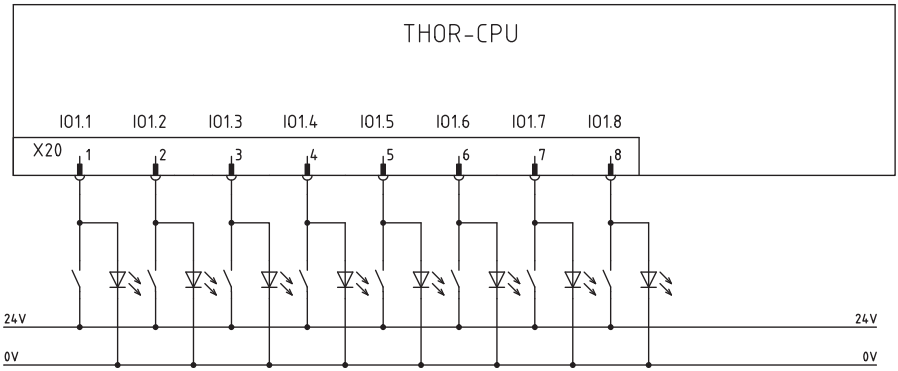
For reference use only

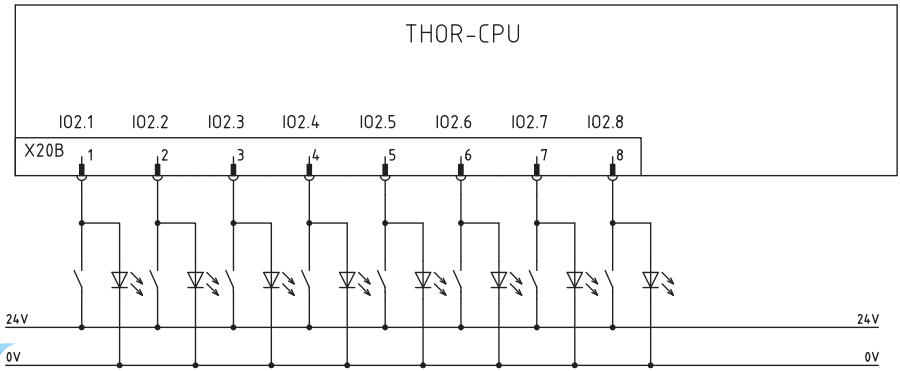


RECOMMENDED USE

I4.1 CONTACTOR MONITORING	I4.4 INSP. PIT UP	I4.7 ERO UP
I4.2 BRAKE MONITORING	I4.5 INSP. PIT DOWN	I4.8 ERO DOWN
I4.3 INSP. PIT ON/OFF	I4.6 ERO ON/OFF	







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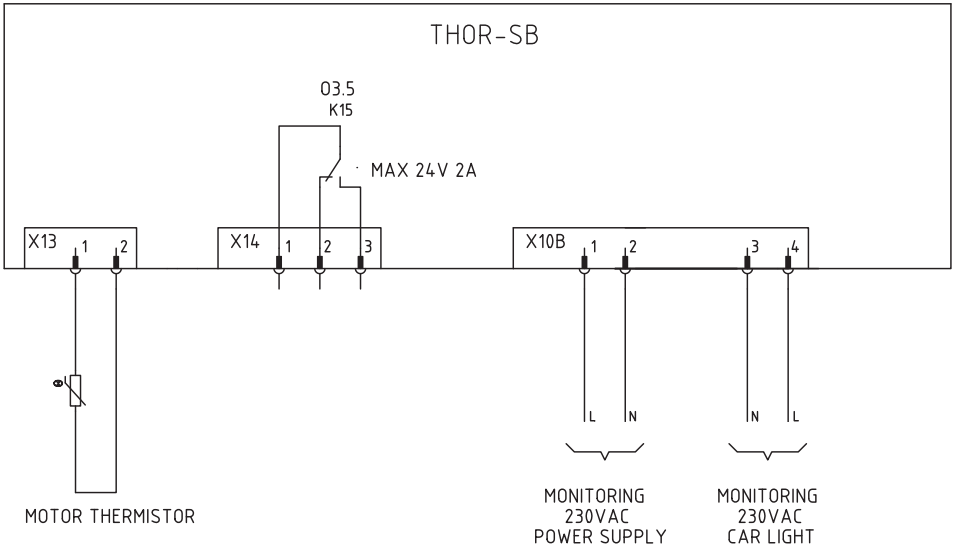

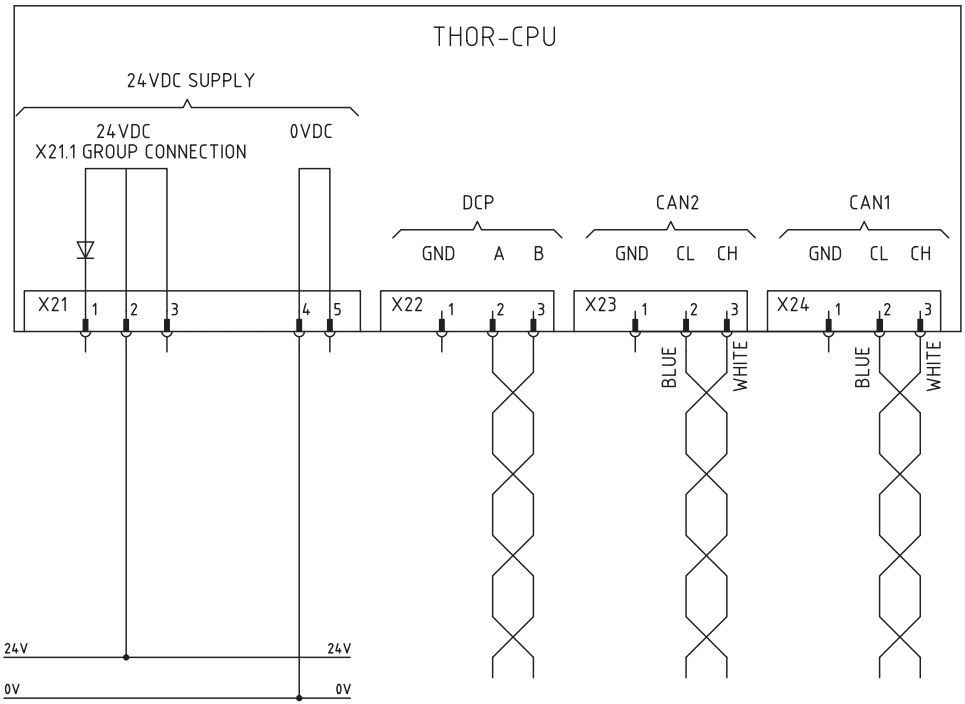

liftinstituut
SINCE 1933

EU-TYPE EXAMINATION CERTIFICATE

Issued by Liftinstituut B.V.
identification number Notified Body 0400,
commissioned by Decree no. 2022-0000107366

Certificate no.	: NL23-400-1002-700-01	Revision no.: -
Description of the product	: Lift control unit for electric or hydraulic lifts with monitoring circuit for safety chain, door bridging circuit, detection of uncontrolled movement of the car (UCMP) and brake monitoring (ACOP/UCMP)	
Trademark	: Solidlift Holding AB	
Type no.	: THOR E	
Name and address of the manufacturer	: Hisselektronik Sweden AB Antennvägen 10 SE135 48, Tyresö, Sweden	
Name and address of the certificate holder	: Solidlift Holding AB Antennvägen 10 SE135 48, Tyresö, Sweden	
Certificate issued on the following requirements	: Lifts Directive 2014/33/EU	
Certificate based on the following standard	: EN 81-20:2020, clause 5.6.6.2, 5.6.7.3, 5.6.6.7, 5.6.7.9, 5.11.1, 5.11.2.1.2 and 5.11.2.3 EN 81-50:2020, clause 5.8 and 5.15	
Test laboratory	: None	
Date and number of the laboratory report	: None	
Date of EU-type examination	: June – February 2023	
Additional document with this certificate	: Report belonging to the EU-type examination certificate no.: NL23-400-1002-700-01	
Additional remarks	: Key parameters for detecting UCM: Detection distance: installed door-zone (variable) Max. response time THOR E : 10ms Speed and distance travelled : to be calculated	
Conclusion	: The safety component meets the requirements of the Lifts Directive 2014/33/EU considering any additional remarks mentioned above	

Certification decision by

Amsterdam
Date : 09-02-2023
Valid until : 09-02-2028

P.J. Schaareman
Product Manager C&S

· Liftinstituut B.V. · Buikslotermeerplein 381 · P.O. Box 36027 · 1020 MA Amsterdam · Netherlands · www.liftinstituut.com ·
· Registered at the KvK under number 34157363 ·

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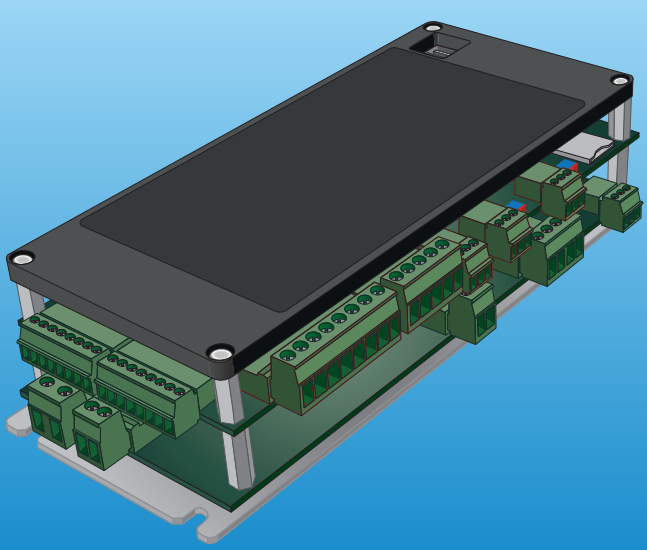
Engineering GmbH

Contact us:



Thor Engineering GmbH
Koblenzer Straße 96
53177 Bonn
Germany

Telephone: +49 (0)228 - 93 39 43 34
E-mail: info@thor.engineering

www.thor.engineering