



User Manual

sGate top guided

sGate Trackless

sGate Trackless – single leaf



Please read this original user manual before using this gate for the first time! Act in accordance with the manual and keep it in a safe place for later use or for the following owner.





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FOREWORD

This manual enables you to operate and maintain the gate correctly. Possible options are briefly described. The Operation chapter explains the control unit. Among other things, it describes how you can change various settings. The Maintenance chapter is extremely important to ensure that you can continue to operate your gate problem free in the long term.

Please read this user manual carefully before using the gate.

Store the manual in a safe place to be able to refer to it later if required. This description is intended for the operator of the gate. The installer uses a separate manual to assemble and install the gate.

The installer uses an installation scheme for the drive concerned and works according to the applicable standards. In the event of a fault, you should contact a Heras certified technician. A connection diagram can be found at the end of this document.



1 PREFACE

1.1 MANUFACTURER / SUPPLIER

Manufacturer: Heras B.V.
Hekdam 1, 5688 JE Oirschot
Netherlands
Tel.: +31(0)499-551255
www.heras.com

Technical Construction File: Heras B.V. manager, PD Department

1.2 SERVICE / MAINTENANCE

In the event of problems, failures or questions you can contact:

Heras Netherlands	Telephone	+31(0) 499 551 255
Heras Germany	Telephone	+49 (0)1805 437277
Heras England	Telephone	+44(0) 1302 364 551
Heras France	Telephone	+33(0) 3 88 067 000
Heras Norway	Telephone	+47(-) 22 900 555
Heras Sweden	Telephone	+46(0) 77 1506050

1.3 DEFINITIONS: USER / OPERATOR / ENGINEER

User: Anyone using the gate.

Operator: A user who is familiar with all safety aspects dealt with in this manual. Operators are not allowed to carry out any installation work on the gate unless explicitly specified.

Engineer: The engineer is a Heras fitter (or an engineer employed by the customer who has been given explicit permission in writing from Heras) who is qualified to perform technical interventions on the gate.



1.4 PRESCRIBED USE / APPLICATION

Only the correct installation and maintenance by an authorised/qualified company or person in agreement with the user manual, logbook, checklists and maintenance lists can ensure the safe operation of the system.

A qualified person is, according to EN 12604 and EN 12453, a person who has the required training, qualified knowledge and practical experience required to install, test and maintain a gate system correctly and safely.

1.5 CONFORMITY WITH EUROPEAN DIRECTIVES

The installation complies with the following EU Directives/ regulations:

EU	2006/42/	EC	Machine Directive
EU	2014/30	EU	EMC Directive (electromagnetic compatibility)
EU	305/2011	EC	Construction Product Regulation

UK	Supply of Machinery (Safety) Regulations 2008
UK	Electromagnetic Compatibility Regulations 2016
UK	Construction Products Regulations 2013

The design and production has been executed compliant with the applicable product standard EN 13241 and EN 12453.

A Declaration of Performance (DoP) and Declaration of Conformity (DoC) are obligatory for this product. The DoP and DoC are included in Appendix A.

The CE or UKCA mark is located on the left column of the gate.

1.6 DELIVERY

The gate and the gate drive and control unit must be installed, connected, set up and tuned by a fitter or an engineer who also connects and programs any accessories.

The gate control unit is adjusted to the options/accessories agreed with the user. The relevant options are laid down during hand-over.

Of course, you can add optional/accessories afterwards. Contact your supplier for



this.

Gates are always delivered fully tested.

1.7 GENERAL INFORMATION REGARDING THE ELECTRICAL CONNECTIONS

Electrical connections must be made compliant with the supplied wiring diagram.

It is important that the system is correctly earthed (Protective grounding in accordance with DIN VDE).

Because EMC-related suppression components can leak current to the earth cable, it is advisable that you do not protect the control unit with a Residual Current Device. When switching on the system, a high starting current can be generated due to the charging of the intermediate circuit.

If after measurement during commissioning it appears that the leakage current exceeds the permitted 3.5 mA, an additional grounding, in accordance with EN 60335-1 and IEC 30364-5-54, must be provided. Measurement is made according to EN 60335-2-103. Consult your installer for this.

Take into account good shielding, for example an automatic circuit breaker 16A B characteristic.



Ensure that the feeder cables are not carrying power during commissioning.

1.8 DELIVERY OF GATE



After installation and commissioning, by a Heras technician or a technician trained by Heras, the cover of the drive unit must be closed. This is done to prevent unauthorised access.



2 SAFETY

2.1 EXPLANATION OF THE SYMBOLS



Caution: To prevent personal injury, you must observe the safety instructions below.



Note: To prevent material damage, you must observe the safety instructions below.



Information: This is followed by further information or by a reference to other documents.



Warning: Risk of limbs getting crushed

2.2 SAFETY DISTANCES

Safety distances apply for the area into which the gate slides in accordance with EN 12453 for electrically driven gates.

2.3 GENERAL SAFETY INSTRUCTIONS



- The operator must read the entire user manual before the gate is used for the first time. The instructions stated in the user manual must be observed and complied with. All other forms of use can cause unexpected hazards and are forbidden.
- It is forbidden to apply the drive unit to gates other than those stated in this manual, without Heras' permission.
- Applying a third-party drive unit and/or safety edge will affect safety and will invalidate the CE mark and UKCA mark.
- The gate must only be put into use if all safety facilities are in place and connected, and work properly.
- All faults which might present a source of danger to the user or to third persons must be eliminated immediately.
- All warnings and safety notices on the equipment must be in place and clearly legible at all times.
- Closing the gate infill openings in any way, such as by means of banners,



advertising signs etc, is not allowed as this may negatively affect the safe operation of the gate.

- All alterations or extensions to the gate must be carried out by qualified personnel using parts which the manufacturer has defined as suitable for such alterations or extensions. Any failure to comply with these instructions will be considered as non-compliant behavior and will invalidate the manufacturer's guarantee, as a result of which the risk entirely transfers to the user.
- Improper usage or servicing or ignoring the operating instructions can be a source of danger for persons, and/or result in material damage.
- If the meaning of any part of these installation and operating instructions is not clear, then please contact your supplier before you use the equipment.
- This manual must always be available at the operating location of the drive unit/gate. This manual must be thoroughly read and applied by all persons who are in charge of operating, maintaining and repairing the drive unit.

2.4 SAFETY PROVISIONS EMPLOYED

- To protect people and goods from injury or damage, the gate is fitted with safety provisions including safety edges and/or photocells. These serve as emergency provisions that immediately stop and reverse the movement of the gate. It is forbidden to use these provisions to stop the gate normally.
- For a gate with hold-to-run control, the above-mentioned safety provisions are not necessary and will therefore not be standard provisions. With this type of operation, the gate stops immediately as soon as the switch is released.

2.5 INTENDED USE

Giving safe access for goods and vehicles accompanied or driven by persons in industrial, commercial or residential premises.

2.6 SAFETY DURING USE



Children or people with a disability must not operate the gate. Parents must supervise their children to prevent them playing with the gate.

→ PARENTS ARE RESPONSIBLE FOR THEIR CHILDREN ←



- Keep a safe distance from the moving gate. Warning icons to this effect have been installed in various locations.



- Only pass through the gate when it is completely open.
- The gate must not be operated in windy conditions, wind force ≥ 9 Beaufort. The gate leaf can swing in a way that can result in damage to the construction.

- The safety edges serve as emergency facilities to immediately stop and reverse the gate movement. Using them as a regular gate stop feature is not allowed. Since the head stiles of the gate have safety edges that cannot cover their full height, there is still some risk of people getting trapped by the gate here.
- When hold-to-run-control is employed, the gate must only be operated if it can be seen completely, directly and in real-time. Operation must be via a permanently installed operating device, for instance a key switch or push button. This operating device must be located in such a way that the operator's position is safe. The gate must stop immediately when the button or key is released. Other operating devices are not allowed.

- The gate must be able to move freely without there being obstacles in the gate opening passage or anywhere else on the moving trajectory of the gate. Do not stick any objects through, over or under the gate which might block the gate.

- The guide rail of the gate must always be free of snow, ice or contaminants that may affect the sliding behaviour. In the event of frost, check this before commissioning the gate. If the running surface is blocked, the gate will not move at all or will not complete its movement. An irregular running surface may cause damage to the drive and/or road wheels.

- Climbing the gate is strictly forbidden as people climbing the gate could be hurt if the gate is started unexpectedly.

- Always close the access doors during use.



2.7 SAFETY DURING INSTALLATION, MAINTENANCE AND DISASSEMBLY



- When work is carried out, manual operation or while cleaning the gate, the power supply to the system must be switched off and it must be ensured that it cannot be switched on unexpectedly.
- The EN 12453 standard must be taken into consideration during installation and maintenance. To achieve a good safety level, the above standard and the national regulations must be taken into account in non-EC countries.

3 OPERATION

3.1 OPENING/CLOSING GATE - NORMAL USE

The gate can be operated using pulse operation, for instance via a button or key switch. The location of the operating device depends on the customer's choice or the operating mode.

- OPEN:
Press the "Open" button. The gate slides open to the next end position. This can be completely or partially open (if the "Partially open" function has been programmed).
- CLOSE:
Press the "Close" button. The gate closes completely.
- STOP:
Press the "Stop" button. The gate will stop immediately, irrespective of its direction of travel. To restart the gate press "Open" or "Close".

3.2 OPEN /CLOSE MANUALLY

In emergencies or power outages, the gate can also be disconnected from the drive unit. This requires the column to be opened. The actions described below must be performed in one or both columns, depending on the gate type.



3.2.1 Unlock the motor/gate

- Unlock the bottom cover.
- Remove the cover.
- Pull the cord down and hang it in the bracket.
The motor brake is released and the gate can be operated manually.
- Close the cover again.

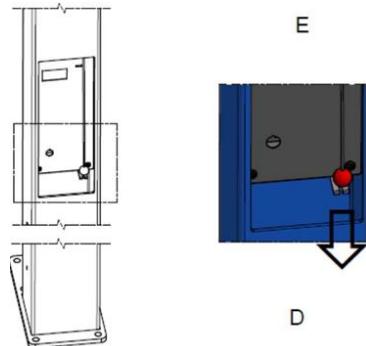


Figure 1: disconnecting the motor

3.2.2 Connect the motor/gate

- Unlock the bottom cover.
- Remove the cover.
- Remove the cord from the bracket and release it.
The motor brake is connected again and locks the gate.
- Close the cover again. The gate can once again be operated electrically.

4 DESCRIPTION

4.1 SGATE TOP GUIDED

The sGate with top guide rails is a gate with a modular structure for passages with a width of approx. 6 meters wide and a headroom of up to approx. 4 meters.

Applications include port areas, company buildings, office buildings, storage sites, garden and landscape areas, high-risk sites, airports, transport and distribution sites, and parking garages.

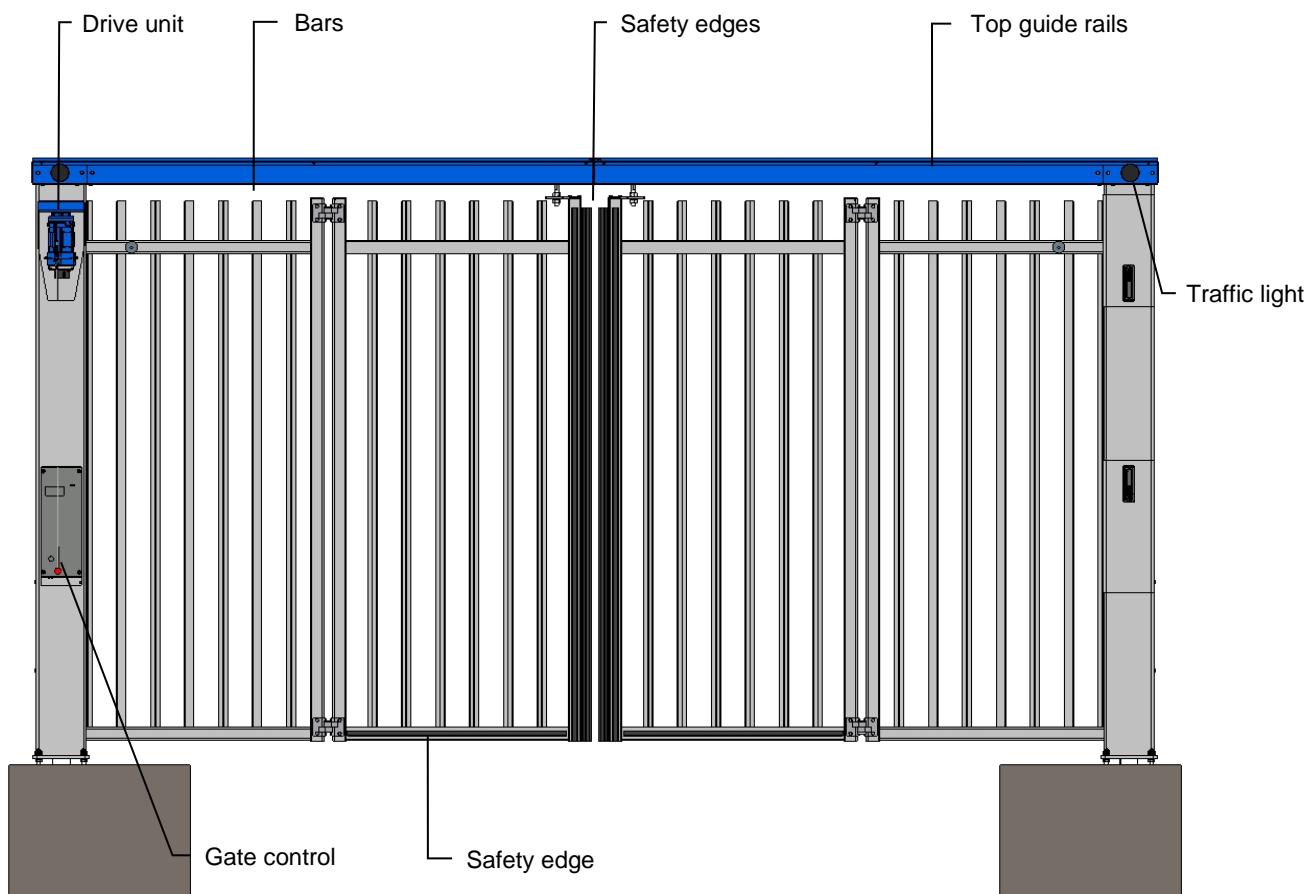


Figure 2: sGate top guided terms

4.2 SGATE TRACKLESS

The sGate Trackless with rod drive is a fully assembled gate for passages with a width of up to approx. 8 meters.

Applications include port areas, company buildings, office buildings, storage sites, garden and landscape areas, high-risk sites, airports, transport and distribution sites, and parking garages.

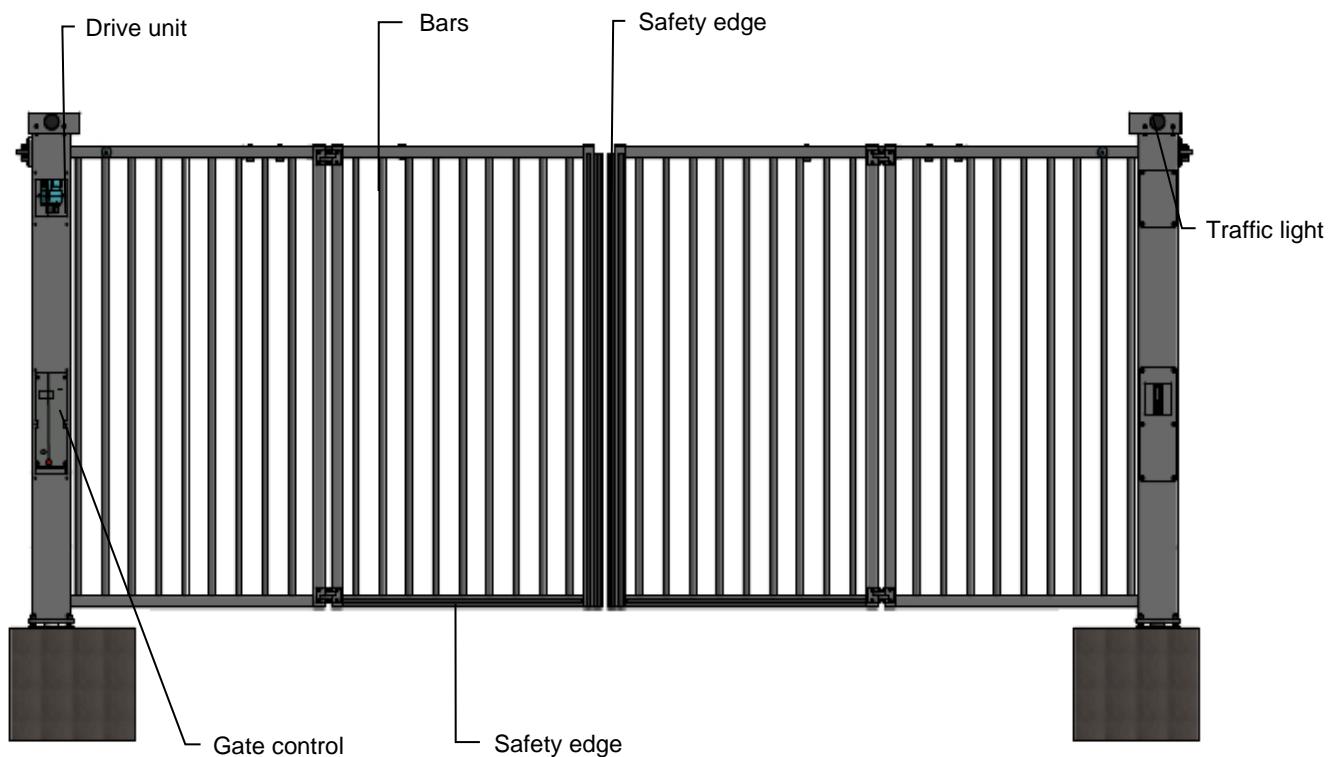


Figure 3: sGate Trackless terms



4.3 SGATE TRACKLESS SINGLE LEAF

The sGate Trackless single leaf with rod drive is a fully assembled gate for passages of 3, 3,5 and 4 meters wide.

Applications include port areas, company buildings, office buildings, storage sites, garden and landscape areas, high-risk sites, airports, transport and distribution sites, and parking garages.

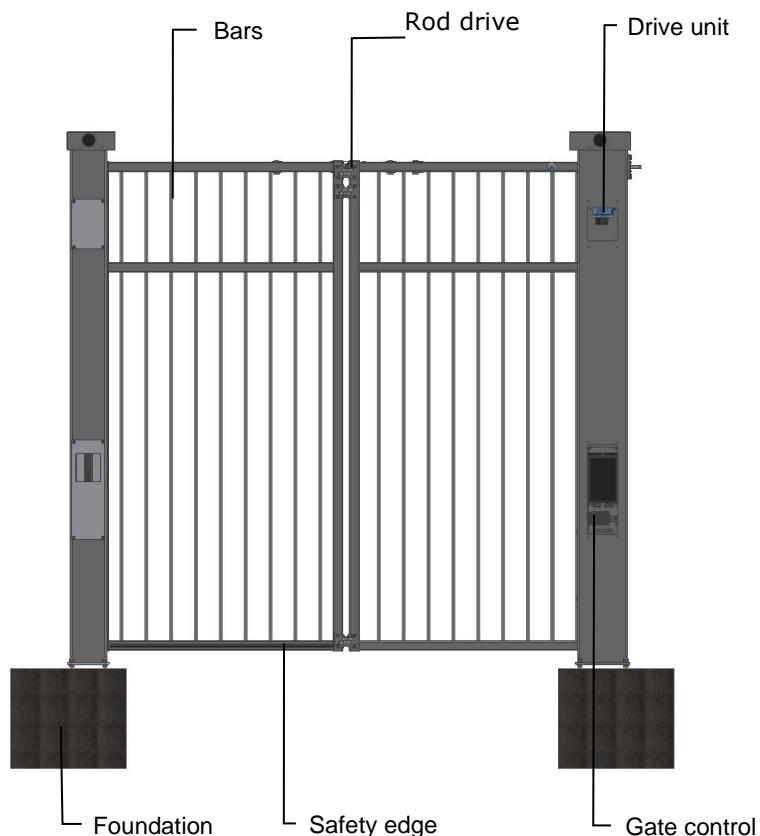


Figure 4: sGate Trackless single leaf terms



4.4 SAFETY EDGES

Power operated Heras gates are protected by safety edges. The type of device and the speed of movement depend on the motor control unit used. If the safety device touches an obstacle, the gate will immediately stop and reverse. Dependent on the device, the gate will restart. The safety edges have been fitted to the stationary and/or moving part or parts of the gate. They are not required for hold-to-run-control. These strips serve as safety components.

Before the gate is moved, the control system checks the status of the safety edges. If one of the safety edges is faulty, the gate can only be opened and closed in hold-to-run-mode. In that case, consult a qualified engineer.



See the chapter 1.2 "SERVICE /MAINTENANCE"

4.5 PHOTOCELLS

Photocells detect whether there are obstacles in the path taken by the gate. If an obstacle is detected during the opening or closing movement, the gate will stop immediately. The photocell is active during closing and opening of the gate. Gates are fitted with multiple photocells.

4.6 LOOP DETECTION

The detection loops are designed to detect vehicles. The opening movement will be stopped by the control when the trapezoidal loop, which lies on the side where the leafs rotate, is energised. If you are on top of this loop while the gate is closed, it will not open. When the loop is released, the gate will (continue to) open.

The closing movement will be stopped by the control when the trapezoidal loop is energised. When the loop is released again, the gate will close further.

The opening movement will have no influence on the movement when the rectangular loop, which lies on the other side, is energised. The closing movement will be stopped by the control when the rectangular loop is energised. When the loop is released the gate will close further.

4.7 TRAFFIC LIGHTS

The gate can be equipped with traffic lights on both sides. These are clearly visible



on the top of columns. The traffic lights indicate a red cross or green arrow with which priority can be given to each direction.

Depending on the chosen operation, a green arrow will light up on one side while a red cross lights up on the other side. It is also possible that both directions get a green arrow, for example, when using the pedestrian passage.

5 FAULTS

5.1 DEFECTIVE PHOTOCELL OR SAFETY EDGE

If a photocell or safety device is defective, the gate can only be opened and closed using the hold-to-run switch. In this case, consult a qualified technician.



See chapter "SERVICE / MAINTENANCE"

6 EMERGENCY STOP

The gate is not equipped with an emergency stop system. According to the Machine Directive 2006/42/EC, annex 1, article 1.2.4.3., this is not necessary if the emergency stop system would not lower the risk. However, an emergency stop system can be connected to the control unit.

7 MAINTENANCE INSTRUCTIONS



- When working on the gate or cleaning it, the power supply to the system must be switched off and protected from unauthorized switching on.
- If the gate must be moved manually, first turn the system circuit breaker in the motor cabinet to the "off" position and protect it from being switched on (e.g. by locking the cabinet).



7.1 GATE MAINTENANCE

Under normal conditions and with regular maintenance, folding gates have a life of at least 600,000 cycles. To ensure that your gate operates safely, reliably and in compliance with all relevant legislation and laws, we recommend a MINIMUM of one maintenance check every 6 months or after 50,000 operating cycles, whichever is the sooner. However, to ensure safety and proper operation of the gate, more frequent maintenance checks are recommended during the lifetime of the gate. Any maintenance work, including repair, replacement, modification and upgrade MUST be conducted by a Heras trained, qualified, competent and certified technician using Heras approved tools and spare parts.

Failure to ensure that the gate is used in accordance with User manual provided, or any faults or damage caused by wilful misuse, will result in any warranty becoming void.

During maintenance, essential points of the gate must be periodically checked based on an inspection protocol:

- Correct operations and adjustment.
- Check all anchor and bolted connections.
- Check for wear of the guide wheels and the running surface/groove
- Check welded joints, damage to coating and zinc
- Check for damage and the operation of detection loops, safety edges and photocells.

7.2 CLEANING

The gate and the outside of the drive unit cabinet can be cleaned using a non-aggressive detergent and a soft cloth, brush or sponge. Avoid using a pressure cleaner as this might damage the gate and the drive unit.

8 DECOMMISSIONING AND REMOVAL



**Ensure that the gate is dismantled by a qualified technician.
Disconnect the electricity supply in a safe way from the drive unit.**
Use the installation manual.

At the end of their service lives the products must be disposed of in accordance with all local, regional and national rules and instructions. The guideposts are made of steel. Heras is also happy to take the products back and then dispose of them in



an appropriate manner.

9 SPARE PARTS

If you have any questions about wear and spare parts, please contact the Service and Maintenance Service. See Chapter 1.2.

10 TECHNICAL DATA

10.1 GATE DESCRIPTION

Type	Top guided	Trackless	Trackless single leaf
Clear pass [m]	3.0...6.0	3.0...8.0	3.0...4.0
Height [m]	2.0...4.0	2.0...3.0	2.0...3.0
Max. weight [kg]	±550...±1100	±495...±855	±370...±510
Construction	Guide rail at the top	Rod drive at the top	Rod drive at the top

10.2 DRIVE DESCRIPTION

FUZ2B	
Supply voltage	1-phase 110..240 VAC ± 10% / N / PE
Fuse supplied by customer, when connected to the electricity mains	max. 16 A
External power supply for 24V devices	24 VDC stabilised (±10%) max. 500 mA (fused with a semiconductor fuse that resets automatically)



FUZZB

FUZZB	
Control inputs	24 VDC / typical 15 mA < 2 V: inactive -> logical 0 > 10,5 V: active -> logical 1 (galvanically isolated internally)
Relay outputs K1 and K2 1	min. 10mA - max. 230 VAC / 3 A resp. 690 W
Maximum el. motor power	750 W
Housing material	ABS plastic
Dimensions W x H x D	182 x 328 x 102 mm (incl. spacers)
Weight	approx. 5 kilos
IP category of control cabi-	IP54
Operating temperature	-20 °C to +50 °C
Storage temperature range	-20 °C to +70 °C
Relative humidity range	max. 95% non-condensing

The functions described in this manual are designed for the prevailing climatic conditions in Europe.

¹ If inductive loads are switched (e.g. further relays or brakes), these must be equipped with a free-wheeling diode as an interference suppression measure.



Appendix A: Declarations DoP / DoC



Declaration of Performance



Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration -
Ytelseserklæring - Ydeevnedeklaration

DoP No: CE-DOP-2021.04-00

Product type - Producttype - Produkttyp - Type de produit - Produkttyp - Produkttype - Produkttype

Folding gate - Vouwpoort - Falrror - Porte pliante - Vikgrind - Foldeport - Foldeport

Identification code - Identificatiecode - Kenncode - Code d'identification - Identifikationskod -
Identifikasjonskode - Identifikationskode

sGate Top Guided - sGate Bottom Guided - sGate Trackless - sGate Trackless Single Leaf

Serial number - Serienummer - Serienummer - Numéro de type - Serienummer - Serienummer -
Serienummer

n/a

Intended use - Beoogd gebruik - Vorgesehener Verwendungszweck - Usage prévu - Avsedd användning -
Tiltenktil bruk - Tilsigtet brug

Giving safe access for goods and vehicles accompanied or driven by persons in industrial, commercial or
residential premises.

Het bieden van een veilige toegang voor goederen en voertuigen begeleid of bestuurd door personen in
industriële, commerciële of residentiële ruimten.

Eine sichere Zufahrt für Waren und Fahrzeuge, begleitet oder geführt (gesteuert) von Personen, in
industriellen, gewerblichen oder Wohnbereichen zu ermöglichen.

Permettre l'accès des marchandises et des véhicules accompagnés ou conduits par des personnes, en toute
sécurité, dans des locaux industriels et commerciaux ou des garages dans les
zones d'habitation.

För vilka avsedd användning är att ge säkert tillträde för gods och fordon åtföljda av eller körda av personer
på industriområden, kommersiella områden eller bostadsområden.

Gir sikker tilgang for varer og kjøretøy ledsaget eller kjørt av personer i industrielle, kommersielle eller
boliglokaler.

Give sikker adgang til varer og køretøjer, der ledsages eller køres af personer i industrielle, kommercielle
eller boliglokaler.

Contact address manufacturer - Contactgegevens fabrikant - Kontaktanschrift des Herstellers - Adresse
de contact du fabricant - Tillverkarens kontaktadress - Tillverkarens kontaktadress - Kontaktadresse fabrikant

Heras B.V. - Hekdam 1 - 5688JE Oirschot - Netherlands

System of assessment and verification of constancy of performance

Systeem voor beoordeling en verificatie van de prestatiebestendigheid

System zur Bewertung und Überprüfung der Leistungsbeständigkeit

Système d'évaluation et de vérification de la constance des performances

System för bedömning och fortlöpande kontroll av byggprodukternas prestanda

System for vurdering og verifisering av prestasjonsbestandighet

System til vurdering og kontrol af ydeevnens konstans

System 3 - Systeem 3 - System 3 - Système 3 - System 3 - System 3 - System 3



Declaration of Performance



Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration -
Ytelseserklæring - Ydeevnedeklaration

DoP No: CE-DOP-2021.04-00

Report number - Rapportnummer – Reportnummer - Numéro de rapport - Rapportnummer -
Rapportnummer - Rapportnummer

140300481, 200501301, VL13062, VL17156, VL17158

Identification number notified body - Nummer van de controle instantie - Kennnummer der notifizierten
Stelle - Numéro d'identification de l'organisme notifié - Det anmälda organets identifikationsnummer
Kontrollinstansens nummer - Identifikationsnummer bemyndiget organ

0063 Kiwa

Harmonised standard - Geharmoniseerde norm - Harmonisierte Norm - Norme harmonisée - Harmoniserad
standard - Harmonisert standard - Harmoniseret standard

EN 13241:2003+A2:2016

Declared performance	Essential characteristics	Performance	Requirements
Aangegeven prestaties Erklärte Leistung Performances déclarées Prestanda som intygas Angitte prestasjoner Deklareret ydeevne	Essentiële kenmerken Wesentliche Merkmale Caractéristiques essentielles Väsentliga egenskaper Grunnleggende kjennetegn Væsentlige egenskaber	Prestaties Leistung Performances Prestanda Prestasjoner Ydeevne	Eisen Anforderungen Exigences Krav Krav Krav
	Watertightness	NPD	4.4.1
	Release of dangerous substances	NPD	4.2.9
	Resistance to wind load	class 3*	4.4.3
	Thermal resistance (where relevant)	NPD	4.4.5
	Air permeability	NPD	4.4.6
	Safe opening (for vertically moving doors)	NPD	4.2.8
	Definition of geometry of glass	NPD	4.2.5
	Mechanical resistance and stability	PASS	4.2.3
	Operating forces (for power operated doors)	PASS	4.3.3
	Durability of watertightness, thermal resistance and air permeability against degradation	NPD	4.4.7

Signed by Ondertekend door Unterzeichnet von Signé par Undertecknad av Undertegnet av Underskrevet af	Gilles Rabot Chief Executive Officer Oirschot 27-05-2021 
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Declaration of Performance

CE²¹

Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration -
Ytelseserklæring - Ydeevnedeklaration

DoP No: CE-DOP-2021.04-00

Assessed products - Beoordeelde producten - Bewertete Produkte - Produits évalués - Produkter som bedömts - Vurderes produkter - Vurderede produkter		
sGate Top Guided		
Technical data	Version: Type: Drive: Control unit: Safety edge:	Double leaf Bar, Pallas/Uni, Zenith, Perforated sheet infill Sumitomo CNVM03-6125DAEB/G/V63M/4 FEIG TST FUZ2-B ASO 25.30 TT, 25.45 TT, Mayser SP37-2
Wind class 3	Opening x Height:	≤6m x ≤3m
sGate Bottom Guided		
Technical data	Version: Type: Drive: Control unit: Safety edge:	Double leaf Bar, Pallas/Uni, Zenith, Perforated sheet infill Sumitomo CNVM03-6125DAEB/G/V63M/4 FEIG TST FUZ2-B ASO 25.30 TT, 25.45 TT, Mayser SP37-2
Wind class 3	Opening x Height:	≤6m x ≤4m
sGate Trackless Double Leaf		
Technical data	Version: Type: Drive: Control unit: Safety edge:	Double leaf Bar, Pallas/Uni, Zenith, (Perforated) sheet infill Sumitomo CNVM03-6125DAEB/G/V63M/4 FEIG TST FUZ2-B ASO 25.30 TT, 25.45 TT, Mayser SP37-2
*Wind Class 3	Type: Opening x height: Type: Opening x height: Type: Opening x height: Type: Opening x height: Type: Opening x height:	Bar infill ≤6m x ≤3m Pallas/Uni infill ≤8m x ≤3m Zenith infill ≤6m x ≤3m Perforated sheet (44% permeability) infill ≤5,5m x ≤3m ≤6m x ≤2,5m Sheet infill ≤4m x ≤3m ≤4,5m x ≤2,5m ≤5m x ≤2m



Declaration of Performance

CE²¹

Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration -
Ytelseserklæring - Ydeevnedeklaration

DoP No: CE-DOP-2021.04-00

*Wind Class 2	Type: Opening x height:	Bar infill 6,5m x 2m, 2,5m, 3m; 7,0m x 2m, 2,5m, 3m 7,5m x 2m, 2,5m, 3m; 8,0m x 2m, 2,5m, 3m
	Type: Opening x height:	Zenith infill 6,5m x 2m, 2,5m, 3m; 7,0m x 2m, 2,5m 7,5m x 2m
	Type: Opening x height:	Perforated sheet (44% permeability) infill 6m x 3,0m; 6,5m x 2m, 2,5m, 3m 7,0m x 2m, 2,5m; 7,5m x 2m
	Type: Opening x height:	Sheet infill 4,5m x 3,0m; 5m x 2,5m, 3,0m 5,5m x 2,0m, 2,5m; 6,0m x 3,0m

sGate Trackless Single Leaf

Technical data	Version: Type: Drive: Control unit: Safety edge:	Single leaf Bar, Pallas/Uni, Zenith, Perforated sheet infill Sumitomo CNVM03-6125DAEB/G/V63M/4 FEIG TST FUZ2-B ASO 25.30 TT, 25.45 TT, Mayser SP37-2
*Wind Class 3	Type: Opening x height:	Bar infill 3m x 2m, 2,5m, 3m
	Type: Opening x height:	Pallas/Uni infill 3m x 2m, 2,5m, 3m; 3,5m x 2m, 2,5m, 3m 4m x 2m, 2,5m, 3m
	Type: Opening x height:	Zenith infill 3m x 2m, 2,5m, 3m
	Type: Opening x height:	Perforated sheet (44% permeability) infill 3m x 2m, 2,5m
*Wind Class 2	Type: Opening x height:	Bar infill 3,5m x 2m, 2,5m, 3m; 4m x 2m, 2,5m, 3m
	Type: Opening x height:	Zenith infill 3,5m x 2m, 2,5m
	Type: Opening x height:	Perforated sheet (44% permeability) infill 3m x 3m; 3,5m x 2m, 2,5m
	Type: Opening x height:	Full sheet infill 3m x 2m



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Declaration of Performance

Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration -
Ytelseserklæring - Ydeevnedeklaration

DoP No: UKCA-DOP-2021.04-00

Product type - Producttype - Produkttyp - Type de produit - Produkttyp - Produkttype - Produkttype

Folding gate - Vouwpoort - Falttor - Porte pliante - Vikgrind - Foldeport - Foldeport

Identification code - Identificatiecode - Kenncode - Code d'identification - Identifikationskod -
Identifikasjonskode -Identifikationskode

sGate Top Guided - sGate Bottom Guided - sGate Trackless - sGate Trackless Single Leaf

Serial number - Serienummer - Serienummer - Numéro de type - Serienummer - Serienummer -
Serienummer

n/a

Intended use - Beoogd gebruik - Vorgesehener Verwendungszweck - Usage prévu - Avsedd användning -
Tiltenkt bruk - Tilsiget brug

Giving safe access for goods and vehicles accompanied or driven by persons in industrial, commercial or
residential premises.

Het bieden van een veilige toegang voor goederen en voertuigen begeleid of bestuurd door personen in
industriële, commerciële of residentiële ruimten.

Eine sichere Zufahrt für Waren und Fahrzeuge, begleitet oder geführt (gesteuert) von Personen, in
industriellen, gewerblichen oder Wohnbereichen zu ermöglichen.

Permettre l'accès des marchandises et des véhicules accompagnés ou conduits par des personnes, en toute
sécurité, dans des locaux industriels et commerciaux ou des garages dans les
zones d'habitation.

För vilka avsedd användning är att ge säkert tillträde för gods och fordon åtföljda av eller körda av personer
på industriområden, kommersiella områden eller bostadsområden.

Gir sikker tilgang for varer og kjøretøy ledsaget eller kjørt av personer i industrielle, kommersielle eller
boliglokaler.

Give sikker adgang til varer og køretøjer, der ledsages eller køres af personer i industrielle, kommersielle
eller boliglokaler.

Contact address manufacturer - Contactgegevens fabrikant - Kontaktanschrift des Herstellers - Adresse
de contact du fabricant - Tillverkarens kontaktadress - Tillverkarens kontaktadress - Kontaktadresse fabrikant

Heras B.V. - Hekdam 1 - 5688JE Oirschot - Netherlands

System of assessment and verification of constancy of performance

Systeem voor beoordeling en verificatie van de prestatiebestendigheid

System zur Bewertung und Überprüfung der Leistungsbeständigkeit

Système d'évaluation et de vérification de la constance des performances

System för bedömnning och fortlöpande kontroll av byggprodukternas prestanda

System for vurdering og verifisering av prestasjonsbestandighet

System til vurdering og kontrol af ydeevnens konstans

System 3 - Systeem 3 - System 3 - Système 3 - System 3 - System 3 - System 3

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Declaration of Performance

Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration -
Ytelseserklæring - Ydeevnedeklaration

DoP No: UKCA-DOP-2021.04-00

Report number - Rapportnummer – Reportnummer - Numéro de rapport - Rapportnummer -
Rapportnummer - Rapportnummer

140300481, 200501301, VL13062, VL17156, VL17158

Identification number notified body - Nummer van de controle instantie - Kennnummer der notifizierten
Stelle - Numéro d'identification de l'organisme notifié - Det anmälda organets identifikationsnummer
Kontrollinstansens nummer - Identifikationsnummer bemyndiget organ

0063 Kiwa

Harmonised standard - Geharmoniseerde norm - Harmonisierte Norm - Norme harmonisée - Harmoniserad
standard - Harmonisert standard - Harmoniseret standard

EN 13241:2003+A2:2016

Declared performance	Essential characteristics	Performance	Requirements
Aangegeven prestaties Erklärte Leistung Performances déclarées Prestanda som intygas Angitte prestasjoner Deklareret ydeevne	Essentiële kenmerken Wesentliche Merkmale Caractéristiques essentielles Väsentliga egenskaper Grunnleggende kjennetegn Væsentlige egenskaber	Prestaties Leistung Performances Prestanda Prestasjoner Ydeevne	Eisen Anforderungen Exigences Krav Krav Krav
	Watertightness	NPD	4.4.1
	Release of dangerous substances	NPD	4.2.9
	Resistance to wind load	class 3*	4.4.3
	Thermal resistance (where relevant)	NPD	4.4.5
	Air permeability	NPD	4.4.6
	Safe opening (for vertically moving doors)	NPD	4.2.8
	Definition of geometry of glass	NPD	4.2.5
	Mechanical resistance and stability	PASS	4.2.3
	Operating forces (for power operated doors)	PASS	4.3.3
	Durability of watertightness, thermal resistance and air permeability against degradation	NPD	4.4.7

Signed by Ondertekenend door Unterzeichnet von Signé par Undertecknad av Undertegnet av Underskrevet af	Gilles Rabot Chief Executive Officer Oirschot 27-05-2021 
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UK²¹
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Declaration of Performance

Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration -
Ytelseserklæring - Ydeevnedeklaration

DoP No: UKCA-DOP-2021.04-00

Assessed products - Beoordeelde producten - Bewertete Produkte - Produits évalués - Produkter som bedömts - Vurderes produkter - Vurderede produkter		
sGate Top Guided		
Technical data	Version: Type: Drive: Control unit: Safety edge:	Double leaf Bar, Pallas/Uni, Zenith, Perforated sheet infill Sumitomo CNVM03-6125DAEB/G/V63M/4 FEIG TST FUZ2-B ASO 25.30 TT, 25.45 TT, Mayser SP37-2
Wind class 3	Opening x Height:	≤6m x ≤3m
sGate Bottom Guided		
Technical data	Version: Type: Drive: Control unit: Safety edge:	Double leaf Bar, Pallas/Uni, Zenith, Perforated sheet infill Sumitomo CNVM03-6125DAEB/G/V63M/4 FEIG TST FUZ2-B ASO 25.30 TT, 25.45 TT, Mayser SP37-2
Wind class 3	Opening x Height:	≤6m x ≤4m
sGate Trackless Double Leaf		
Technical data	Version: Type: Drive: Control unit: Safety edge:	Double leaf Bar, Pallas/Uni, Zenith, (Perforated) sheet infill Sumitomo CNVM03-6125DAEB/G/V63M/4 FEIG TST FUZ2-B ASO 25.30 TT, 25.45 TT, Mayser SP37-2
*Wind Class 3	Type: Opening x height: Type: Opening x height: Type: Opening x height: Type: Opening x height: Type: Opening x height:	Bar infill ≤6m x ≤3m Pallas/Uni infill ≤8m x ≤3m Zenith infill ≤6m x ≤3m Perforated sheet (44% permeability) infill ≤5,5m x ≤3m ≤6m x ≤2,5m Sheet infill ≤4m x ≤3m ≤4,5m x ≤2,5m ≤5m x ≤2m



Declaration of Performance

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Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration -
Ytelseserklæring - Ydeevnedeklaration

DoP No: UKCA-DOP-2021.04-00

*Wind Class 2	Type: Opening x height:	Bar infill 6,5m x 2m, 2,5m, 3m; 7,0m x 2m, 2,5m, 3m 7,5m x 2m, 2,5m, 3m; 8,0m x 2m, 2,5m, 3m
	Type: Opening x height:	Zenith infill 6,5m x 2m, 2,5m, 3m; 7,0m x 2m, 2,5m 7,5m x 2m
	Type: Opening x height:	Perforated sheet (44% permeability) infill 6m x 3,0m; 6,5m x 2m, 2,5m, 3m 7,0m x 2m, 2,5m; 7,5m x 2m
	Type: Opening x height:	Sheet infill 4,5m x 3,0m; 5m x 2,5m, 3,0m 5,5m x 2,0m, 2,5m; 6,0m x 3,0m

sGate Trackless Single Leaf

Technical data	Version: Type: Drive: Control unit: Safety edge:	Single leaf Bar, Pallas/Uni, Zenith, Perforated sheet infill Sumitomo CNVM03-6125DAEB/G/V63M/4 FEIG TST FUZ2-B ASO 25.30 TT, 25.45 TT, Mayser SP37-2
*Wind Class 3	Type: Opening x height:	Bar infill 3m x 2m, 2,5m, 3m
	Type: Opening x height:	Pallas/Uni infill 3m x 2m, 2,5m, 3m; 3,5m x 2m, 2,5m, 3m 4m x 2m, 2,5m, 3m
	Type: Opening x height:	Zenith infill 3m x 2m, 2,5m, 3m
	Type: Opening x height:	Perforated sheet (44% permeability) infill 3m x 2m, 2,5m
*Wind Class 2	Type: Opening x height:	Bar infill 3,5m x 2m, 2,5m, 3m; 4m x 2m, 2,5m, 3m
	Type: Opening x height:	Zenith infill 3,5m x 2m, 2,5m
	Type: Opening x height:	Perforated sheet (44% permeability) infill 3m x 3m; 3,5m x 2m, 2,5m
	Type: Opening x height:	Full sheet infill 3m x 2m



Declaration of Conformity



Verklaring van overeenstemming - Konformitätserklärung - Déclaration de conformité - Deklaration om överensstämmelse - Konformitetserklæring - Overensstemmelseserklæringen

DoC No: CE-DOC-2021.04-01

- EN** We herewith declare that the product complies with the following directives and standards.
NL Hiermee verklaren wij dat het product in overeenstemming is met de volgende richtlijnen en normen.
DE Hiermit erklären wir, dass die Produkte der nachfolgenden Richtlinien und Normen entspricht.
FR Par la présente nous déclarons que le produit est conforme aux directives et normes suivantes.
SV Vi deklarerar härmed att produkten överensstämmer med följande riktlinjer och normer.
NO Vi erklærer med dette at dette produktet er konformt med følgende direktiv og normer.
DA Vi erklærer hermed, at produktet er i overensstemmelse med følgende direktiver og standarder.

Product type - Producttype - Produkttyp - Type de produit - Produkttyp - Produkttype - Produkttype

Folding gate - Vouwpoort - Falitor - Porte pliante - Vikgrind - Foldeport - Foldeport

Identification code - Identificatiecode - Kenncode - Code d'identification - Identifikationskod - Identifikasjonskode -Identifikationskode

sGate Top Guided - sGate Bottom Guided - sGate Trackless - sGate Trackless SL

Contact address manufacturer - Contactgegevens fabrikant - Kontaktanschrift des Herstellers - Adresse de contact du fabricant - Tillverkarens kontaktadress - Tillverkarens kontaktadress - Kontaktadresse fabrikant

Heras B.V. - Hekdam 1 - 5688JE Oirschot - Netherlands

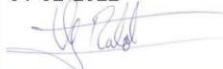
Directives - Richtlijnen - Richtlinien - Directives - Direktiven - Direktiver - Direktiver

2006/42/EC Machine Directive
305/2011 Construction Products Regulation
2014/30/EU EMC Directive

Standards - Normen - Normen - Normes - Standarder - Standarder - Standarder

EN 13241:2003+A2:2016 - EN 12604:2017+A1:2020
EN 12453:2017+A1:2021 - EN-IEC 60335-2-103:2015

Signed by
Ondertekend door
Unterzeichnet von
Signé par
Undertecknad av
Undertegnet af
Underskrevet af

Gilles Rabot
Chief Executive Officer
Oirschot
04-02-2022




Declaration of Conformity



Verklaring van overeenstemming - Konformitätserklärung - Déclaration de conformité - Deklaration om överensstämmelse - Konformitetsertifikat - Overensstemmelseserklæringen

DoC No: UKCA-DOC-2021.04-01

EN We herewith declare that the product complies with the following directives and standards.
NL Hiermee verklaren wij dat het product in overeenstemming is met de volgende richtlijnen en normen.
DE Hiermit erklären wir, dass die Produkte der nachfolgenden Richtlinien und Normen entspricht.
FR Par la présente nous déclarons que le produit est conforme aux directives et normes suivantes.
SV Vi deklarerar härmed att produkten överensstämmer med följande riktlinjer och normer.
NO Vi erklærer med dette produktet er konformt med følgende direktiv og normer.
DA Vi erklærer hermed, at produktet er i overensstemmelse med følgende direktiver og standarder.

s

Product type - Producttype - Produkttyp - Type de produit - Produkttyp - Produkttype - Produkttype

Folding gate - Vouwpoort - Falitor - Porte pliante - Vikgrind - Foldeport - Foldeport

Identification code - Identificatiecode - Kenncode - Code d'identification - Identifikationskod - Identifikasjonskode -Identifikationskode

sGate Top Guided - sGate Bottom Guided - sGate Trackless - sGate Trackless SL

Contact address manufacturer - Contactgegevens fabrikant - Kontaktanschrift des Herstellers - Adresse de contact du fabricant - Tillverkarens kontaktadress - Tillverkarens kontaktadress - Kontaktadresse fabrikant

Heras B.V. - Hekdam 1 - 5688JE Oirschot - Netherlands

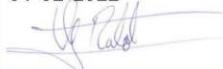
Directives - Richtlijnen - Richtlinien - Directives - Direktiven - Direktiver - Direktiver

Supply of Machinery (Safety) Regulations 2008
Electromagnetic Compatibility Regulations 2016
Construction Products Regulations 2013

Standards - Normen - Normen - Normes - Standarder - Standarder - Standarder

EN 13241:2003+A2:2016 - EN 12604:2017+A1:2020
EN 12453:2017+A1:2021 - EN-IEC 60335-2-103:2015

Signed by
Ondertekend door
Unterzeichnet von
Signé par
Undertecknad av
Undertegnet af
Underskrevet af

Gilles Rabot
Chief Executive Officer
Oirschot
04-02-2022




Appendix B: Overview of error messages

P920	Read out fault history	
F000	Door open outside position	<ul style="list-style-type: none">- Parameter value emergency limit switch- Limit switch open range too small- The mechanical brake is defective or set incorrectly
F005	Door closed outside position	<ul style="list-style-type: none">- Parameter value emergency limit switch- Limit switch open range too small- The mechanical brake is defective or set incorrectly
F020	Running time exceeded during opening or closing or in hold to run mode of control	<ul style="list-style-type: none">- Current motor has exceeded a set maximum running time- The gate runs with difficulty or is obstructed- If mechanical limit switches are used, a limit switch may be defective- If an encoder is used, this fault is virtually impossible
F021	Testing the emergency opening was not successful	<ul style="list-style-type: none">- The maximum permissible running time (P.490) was exceeded during the test. Call Customer Service
F030	Gate runs slowly, the change in position is slower than expected	<ul style="list-style-type: none">- Axle of the encoder on the motor is loose- Wrong positioning system has been selected.- Motor phase is missing- Motor brake is not released- Error recognition setting too small- Movement speed too low- Mechanical limit switch

		remains active or is defective
F031	Reversal time error at DES	<ul style="list-style-type: none"> - Wrong direction of rotation - In the selection of the encoder, an incorrect channel has been selected. A with B were switched (pulse generators are not used)
F033	Protocols of the position sensor erroneous	<ul style="list-style-type: none"> - Failure of the position sensor's bus. No position data received over a longer period of time.
F043	Failure of the pre-limit switch of the photoelectric light barrier	<ul style="list-style-type: none"> - The pre-limit switch of the photoelectric light barrier also remains in the middle or the upper end position respectively.
F060	Crash detected	<ul style="list-style-type: none"> - Crash detected, but not remedied.
F063	Adjustment error to loop 3	<ul style="list-style-type: none"> - Disturbed environment. Loop is outside the tolerance values.
F064	Adjustment error to loop 4	<ul style="list-style-type: none"> - Disturbed environment. Loop is outside the tolerance values.
F067	Safety loop 3 defect	<ul style="list-style-type: none"> - Short circuit or interruption of loop 3
F068	Safety loop 4 defect	<ul style="list-style-type: none"> - Short circuit or interruption of loop 4
F080	Perform maintenance	<ul style="list-style-type: none"> - Service counter has reached maintenance status
F090	Set control parameters	<ul style="list-style-type: none"> - The minimum basic parameters are not set in the control system
F201	Internal emergency stop active or watchdog active	<ul style="list-style-type: none"> - Check the internal emergency stop wiring, test the microprocessor by pressing the stop sheet, it will display information about the possible cause



F211	External emergency stop 1	<ul style="list-style-type: none">- Check external emergency stop wiring of 1
F212	External emergency stop 2	<ul style="list-style-type: none">- Check external emergency stop wiring of 2
F320	Gate blocked during opening	<ul style="list-style-type: none">- The gate is stopped during opening
F325	Gate blocked during closing	<ul style="list-style-type: none">- The gate is stopped during closing
F360 to F364		<ul style="list-style-type: none">- Safety edge 1 is malfunctioning
F370 to F374		<ul style="list-style-type: none">- Safety edge 2 is malfunctioning
F380	Short circuit on the safety edge entry	<ul style="list-style-type: none">- Cable short circuit detected at the safety edges
F383	Short circuit on the safety edge entry detected	<ul style="list-style-type: none">- Connection cable defective or not connected- Terminator damaged or missing- Jumper set incorrectly
F400	RAM error	<ul style="list-style-type: none">- Reset FUE/FUZ
F401	Watchdog error	<ul style="list-style-type: none">- Internal Watchdog activated.
F40A	Software exception	<ul style="list-style-type: none">- Internal error detected.
F40B	Expansion board communication error	<ul style="list-style-type: none">- Communication disrupted between the main circuit board and the expansion board.
F40C	Unknown expansion board (Connected via CAN)	<ul style="list-style-type: none">- Incorrect coding of the hardware of the expansion board.Operating software does not support the expansion board.Expansion board defective
F410	Overcurrent limit ((motor current or DC link))	<ul style="list-style-type: none">- Motor data set incorrectly- sGate is running too sluggishly
F420	Overcurrent DC link 1	<ul style="list-style-type: none">- Braking chopper malfunctioning / defect /

		<p>not present</p> <ul style="list-style-type: none"> - Mains voltage too high - Motor returning too much energy (generator effect). E.g. when gate is closed and during a storm.
F425	Mains overvoltage	<ul style="list-style-type: none"> - The supply voltage of the control is too high.
F426	Mains undervoltage	<ul style="list-style-type: none"> - The supply voltage of the control is too low.
F430	Heat sink temperature outside working range limit 1	<ul style="list-style-type: none"> - Temperature too low limit 1
F435	Temperature in housing in limit range	<ul style="list-style-type: none"> - Temperature in the cabinet too low, high
F440	Overload current in intermediate circuit limit 1	<ul style="list-style-type: none"> - Set voltage increase ("Boost") not adjusted. Motor incorrectly dimensioned for gate used. - Gate moves in a sluggish manner.
F510		<ul style="list-style-type: none"> - Motor using too much power limit 2
F511	Malfunction in DC supply	<ul style="list-style-type: none"> - DC supply not possible (overcurrent, IGBT error F.519, short-circuit, 24V error, excess temperature). - Emergency stop is activated.
F512	Offset motor current / Intermediate circuit current faulty	<ul style="list-style-type: none"> - Faulty hardware.
F515	Motor protection function has recognised overload current	<ul style="list-style-type: none"> - Incorrect motor characteristic curve (Motor Nominal Current) set (P101). - Voltage increase / Boost set too high (P140 or P145) - motor incorrectly dimensioned

F519	IGBT control unit has detected overload current.	<ul style="list-style-type: none"> - Short circuit or earth contact at motor terminals. - Nominal motor frequency set incorrectly (P.100). - Voltage increase / boost set much too high (P.140 or P.145). - Motor incorrectly dimensioned. - Motor winding defective - Brief interruption of emergency-stop circuit.
F520	Ovvoltage in intermediate circuit Limit 2	<ul style="list-style-type: none"> - Brake chopper malfunctioning / defective / not present. Input supply voltage too high. The motor feeds too much energy back during generator mode, because it needs to reduce the kinetic energy of the gate.
F521	Undervoltage in intermediate circuit	<ul style="list-style-type: none"> - Input supply voltage often too low when operating under load. Load too high / output stage or brake chopper malfunction.
F524	Ext. 24 VDC problem	<ul style="list-style-type: none"> - External 24 VDC fails or is too low/ closure.
F525	Ovvoltage input	<ul style="list-style-type: none"> - Mains voltage is too high or unstable
F530	Low temperature	<ul style="list-style-type: none"> - Temperature of the controls is too low limit 2
F535	High temperature	<ul style="list-style-type: none"> - Temperature of the controls is too high (ventilate or cool)
F540	Overload current in intermediate circuit limit 2.	<ul style="list-style-type: none"> - Set voltage increase ("Boost") not adjusted. Motor incorrectly di-

		<p>mensioned for the gate used.</p> <ul style="list-style-type: none"> - Gate moves in a sluggish manner.
F700	Gate position registration error	<ul style="list-style-type: none"> - When using limit switches, both limit switches are activated at the same time
F701	CLOSED position not found during timer mode	<ul style="list-style-type: none"> - The simulated limit switch CLOSED has not reached the expected position. - The tolerance range of the detection time is too small (P.229)
F702	OPEN position not found during timer mode	<ul style="list-style-type: none"> - The simulated limit switch OPEN has not reached the expected position. - The tolerance range of the detection time is too small (P.239)
F752	Timeout during protocol transfer	<ul style="list-style-type: none"> - Interface cable defective / interrupted. - Incorrect operation of the evaluation electronics of the absolute encoder. - Defective hardware or an environment with a high level of electrical interference. - Shield the control cable. - Fit RC module ($100\Omega+100nF$) to brake.
F760	Gate position outside window range	<ul style="list-style-type: none"> - Incorrect operation of the drive of the position sensors - Incorrect operation of the absolute encoder of the analysis electronics - Defective hardware or strongly disturbed environment



F763	DES-B malfunctions	<ul style="list-style-type: none">- The encoder is malfunctioning.
F766	Internal TST PD/PE error	<ul style="list-style-type: none">- Failure of the position sensor TST PD/PE. Perform a reset.
F767	Over temperature TST PD	<ul style="list-style-type: none">- Temperature in housing too high
F768	Battery almost empty	<ul style="list-style-type: none">- The battery current of the TST PD is too low (replace battery)
F7A2	Communication disrupted	<ul style="list-style-type: none">- Communication disrupted or communication print defective
F910	No communication with the expansion board possible.	<ul style="list-style-type: none">- Communication with the expansion board is disrupted.- No expansion board inserted.- CAN connection disrupted (cable breakage or no power supply for the expansion board).
F911	ROM error in the expansion board	<ul style="list-style-type: none">- Incorrect Flash code- Defective hardware or an environment with a high level of electrical interference.
F912	RAM error in the expansion board	<ul style="list-style-type: none">- Defective hardware or an environment with a high level of electrical interference.
F920	2.5 V malfunction	<ul style="list-style-type: none">- Hardware defect
F921	15 V malfunction	<ul style="list-style-type: none">- Hardware defect
F922		<ul style="list-style-type: none">- Emergency circuit not closed (see connection terminals)
F931	ROM malfunction	<ul style="list-style-type: none">- incorrect ROM code / defective hardware
F932	RAM malfunction	<ul style="list-style-type: none">- Hardware defect
F933	CPU malfunction	<ul style="list-style-type: none">- the pulse frequency to the CPU is not in order





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P.O. box 30
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**Tel: +31 499 55 12 55
E-mail: infoNL@heras.nl**

Local supplier stamp:



ePLAN®
electric 8

Type: Master

Group: sGate uni Master/Slave

Version no: 4.0

Language: en_EN

Rev. date:	27-07-2022	Type:	Master	Project name	dr-unit diverse	Page title:	
Version no:	4.0	Language:	en_EN	Group code	sGate uni	Description	Master/Slave
Drawn by:	WWI					Title Sheet / Front Sheet	

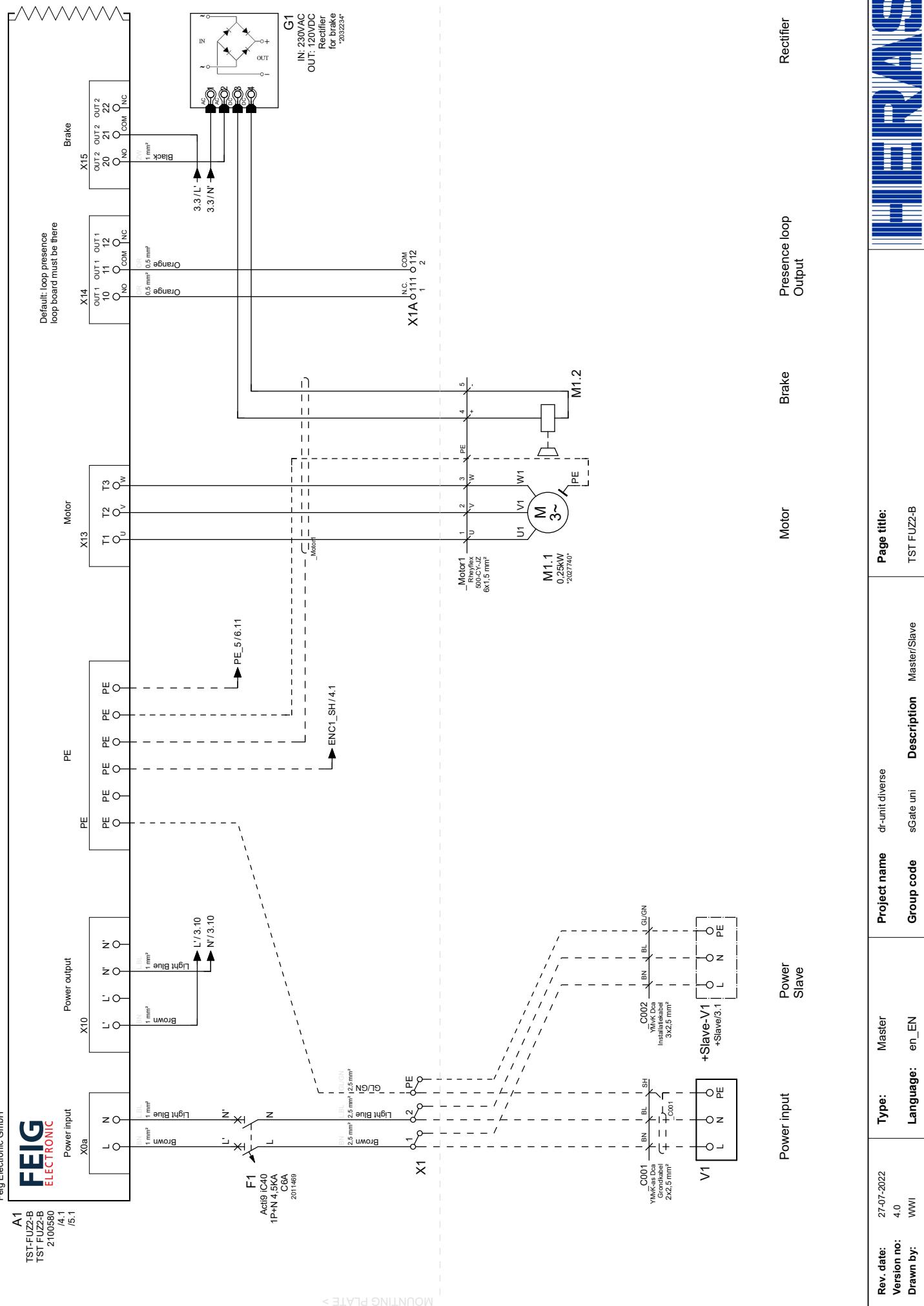
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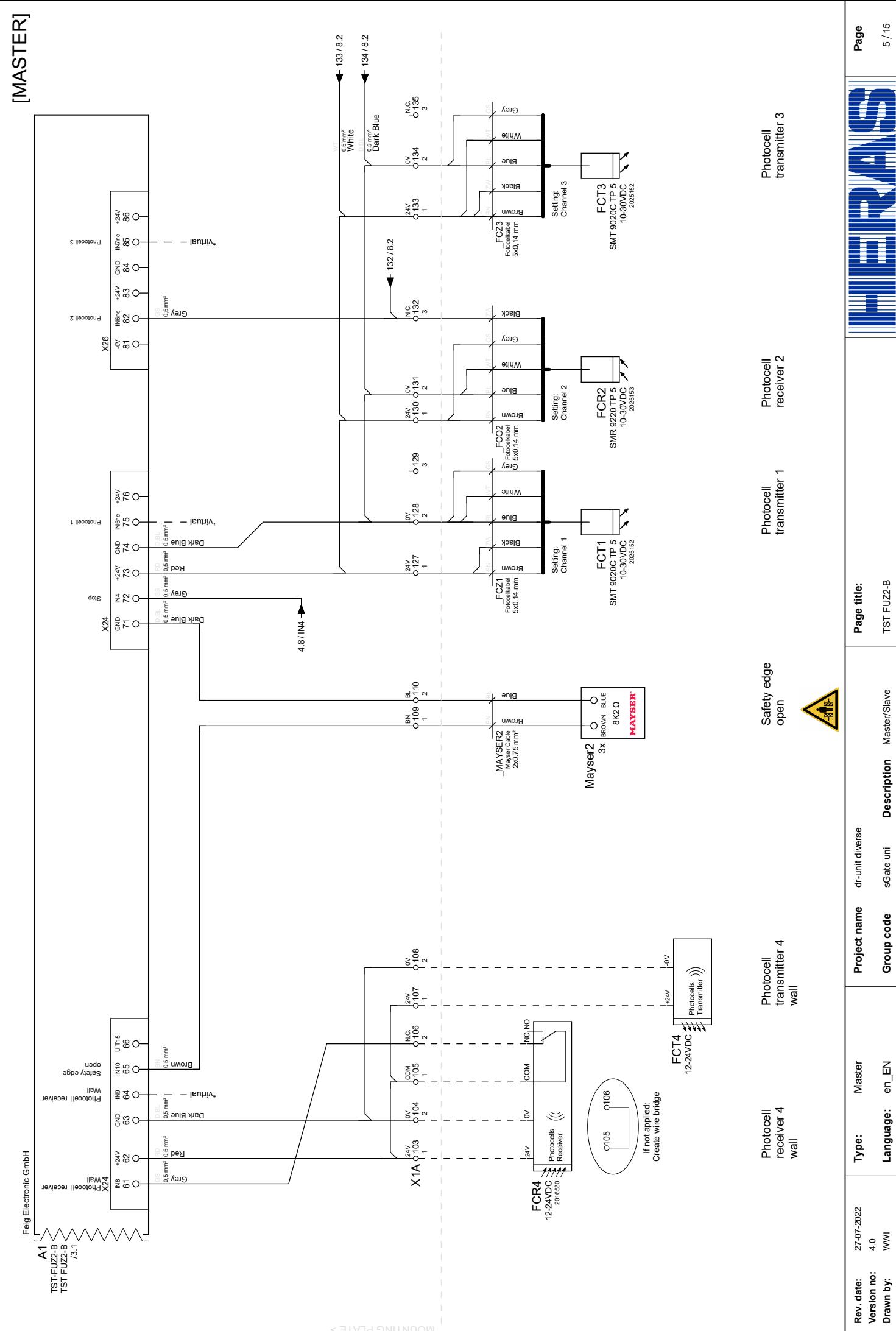
Title Sheet

Index

Page	Page title:
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3	TST FUZZ-B
4	TST FUZZ-B
5	TST FUZZ-B
6	Expansion board TST-FUZZ-K
7	TST SUVER2-A 2-channel detector optional*
8	Heras Cloud Unit (HCU)
9	View mounting plate
10	"+Master-X2" Terminals Connection frame
11	"+Master-X1" Terminals Connection frame
12	"+Master-X1A" Terminals Connection frame
13	"+Master-X1A" Terminals Connection frame
14	"+Master-X1A" Terminals Connection frame
15	"+Master-X1B" Terminals Connection frame

[MASTER]





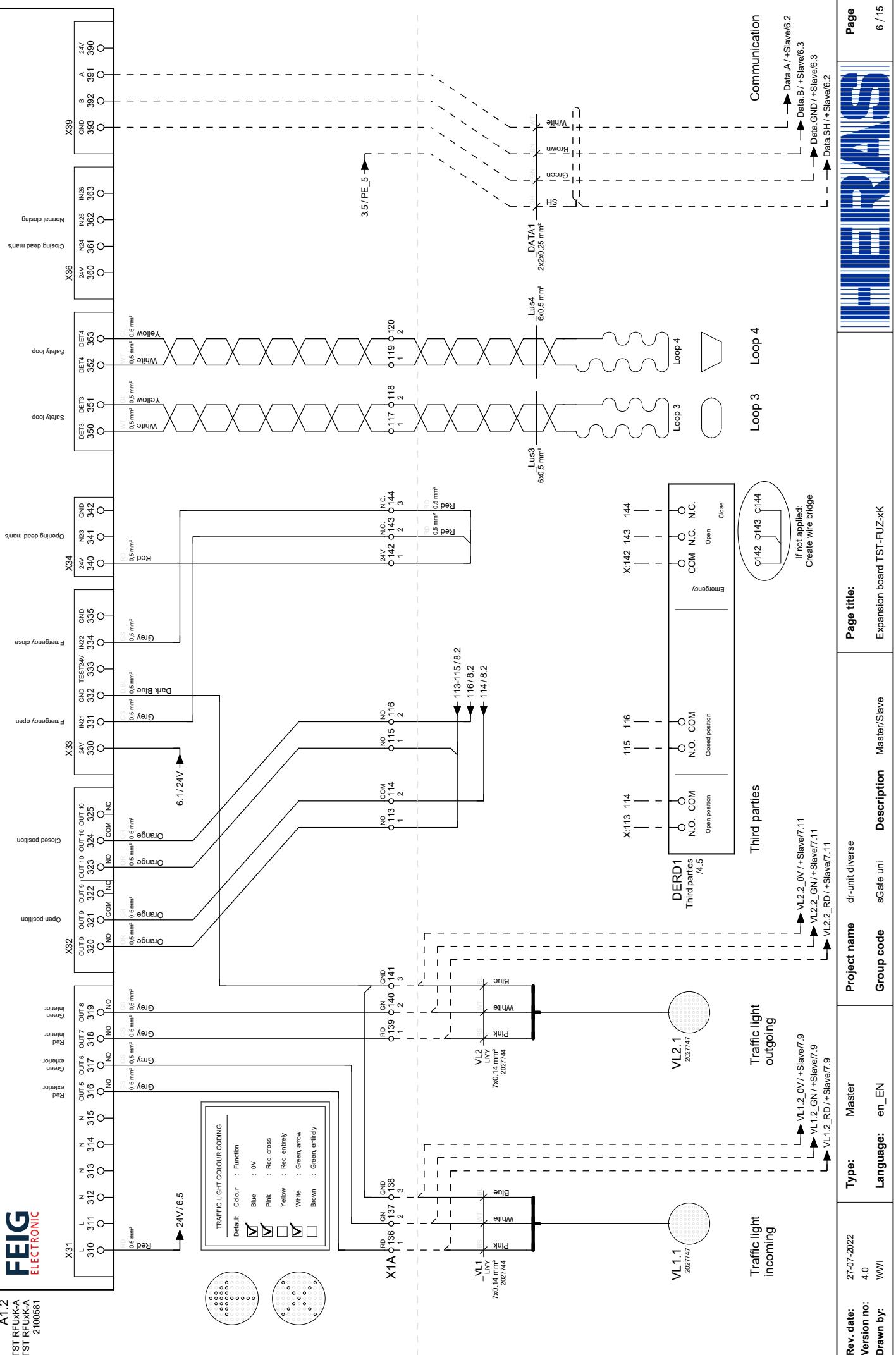
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[MASTER]

Expansion board TST-FUZ-xK

Feig Electronic GmbH

A1.2
TST RFUK-A
TST RFUK-A
2100581



[MASTER]

TST SUVEK2-A, 2 channel detector



Feig Electronic GmbH

A1.3
TST SUVEK2-A
2100586

Free exit loop

Presence loop for output 1

DET1' DET1

DET2' DET2

Lus1
6x0.5 mm²Lus2
6x0.5 mm²

LOOP 1

LOOP 2

Free exit loop
Presence loop
for output 1

Page title:
TST SUVEK2-A 2 channel detector optional*
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2.9.4

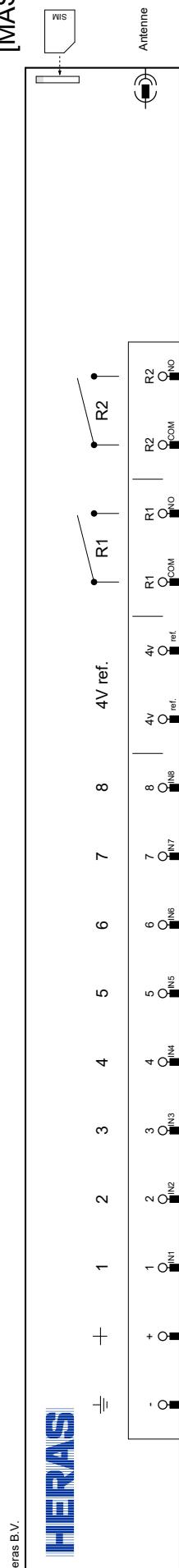
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Eplan version: 2.9.4

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[MASTER]



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Control
cell phone
year clock

Control
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Control
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R13
R14

* Configuration	
1	Gate Closed
2	Gate Open
3	Photocell 1
4	Photocell 2
5	Photocell 3
6	Open incoming
7	Open outgoing
8	Notification Hatch(s) open



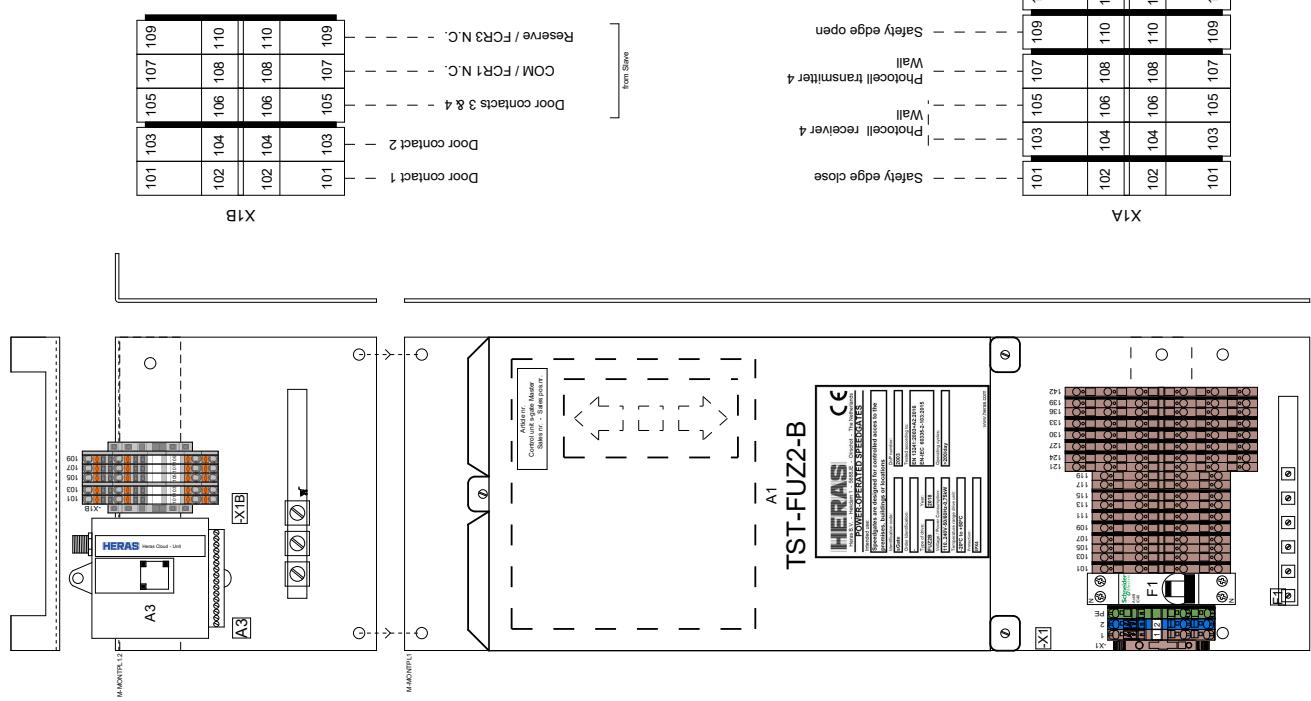
Page title:

Heras Cloud Unit (HCU)

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[MASTER]



HERAS
Solutions for Access Control
and Intrusion Detection

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Rev. date:	27-07-2022	Type:	Master	Project name	dr-unit diverse
Version no:	4.0	Language:	en_EN	Group code	sGate uni
Drawn by:	WWI	Description	Master/Slave	Page title:	View mounting plate

Terminals connection list

From

Connection code

-V1:L

Power input

+Slave-S-V1:L

Power input

-V1:N

+Slave-S-V1:N

Power Slave

-V1:PE

+Slave-S-V1:PE

X1

Industrialization_klemmenaansluitlijst_Voorwaardelijk

From	Connection code	Function text	Cable Type.	Wire	Bridge	Level	Bridge	Bridge	Page
Power input	-V1:L	Power input	_C001	2x2.5 mm ²	BN	*	1	□	=sGate uni+Master/3
	+Slave-S-V1:L		_C002	3x2.5 mm ²	BN		□	□	
Power input	-V1:N	Power input	_C001	2x2.5 mm ²	BL	*	2	□	=sGate uni+Master/3
	+Slave-S-V1:N		_C002	3x2.5 mm ²	BL		□	□	
Power Slave	-V1:PE	Power Slave	_C001	2x2.5 mm ²	SH	*	□	PE	=sGate uni+Master/3
	+Slave-S-V1:PE		_C002	3x2.5 mm ²	GL/GN		□	□	

 Page title:
"+Master-X1" Terminals Connection frame

Terminals connection list

From	To	Connection code		Function text						Page
		No.	Type	Wire	Bridge	Level	Bridge	Level	Bridge	
Safety edge close	-Mayser1:	BROWN								=isGate uni+Master/4
Safety edge close	-Mayser1:	MAYSER1 2x0.75 mm²	BN	1	1	101	1	1	1	=isGate uni+Master/4
Photocell receiver 4 wall	-FCR4:24V	BLUE					2	2	2	=isGate uni+Master/5
Photocell receiver 4 wall	-FCR4:0V	Photocell receiver 4 wall					1	1	1	=isGate uni+Master/5
Photocell receiver 4 wall	-FCR4:COM	Photocell receiver 4 wall					2	2	2	=isGate uni+Master/5
Photocell receiver 4 wall	-FCR4:NC	Photocell receiver 4 wall					1	1	1	=isGate uni+Master/5
Photocell receiver 4 wall	-FC1T4:+24V	Photocell receiver 4 wall					2	2	2	=isGate uni+Master/5
Photocell transmitter 4 wall	-FC1T4:-0V	Photocell transmitter 4 wall					1	1	1	=isGate uni+Master/5
Safety edge open	-Mayser2:	BROWN					2	2	2	=isGate uni+Master/5
Safety edge open	-Mayser2:	BLUE					1	1	1	=isGate uni+Master/5
Presence loop Output		MAYSER2 2x0.75 mm²	BN	1	1	109	1	1	1	=isGate uni+Master/3
Presence loop Output		BLUE					2	2	2	=isGate uni+Master/3
Third parties	-A2:4V	RD					1	1	1	=isGate uni+Master/6
Third parties	-A2:2	OR					2	2	2	=isGate uni+Master/6
Third parties	-A2:1	GN					1	1	1	=isGate uni+Master/6
Loop 3	-LUS-3:	SLUITVEILIGHED					2	2	2	=isGate uni+Master/6
Loop 4	-LUS-3:	SLUITVEILIGHED					1	1	1	=isGate uni+Master/6
Loop 4	-LUS-4:	SLUITVEILIGHED					2	2	2	=isGate uni+Master/6
Loop 4	-LUS-4:	SLUITVEILIGHED					1	1	1	=isGate uni+Master/6
Controls	-DERD1:COM	COM					1	1	1	=isGate uni+Master/4
Controls	-DERD1:N.O.	OPENING INCOMING					2	2	2	=isGate uni+Master/4
Controls	-DERD1:N.O.	OPENING OUTGOING					3	3	3	=isGate uni+Master/4
Controls	-DERD1:COM	COM*					1	1	1	=isGate uni+Master/4
Controls	-DERD1:N.O.	SEMI OPENING					2	2	2	=isGate uni+Master/4
Controls	-DERD1:N.C.	STOP*					3	3	3	=isGate uni+Master/4
Photocell transmitter 1	-FC1T1:+	FC21	5x0.14 mm	BN	+	1	1	1	1	=isGate uni+Master/5
	-FC1T1:-	FC21	5x0.14 mm	ZN	~					
Photocell transmitter 1	-FC1T1:-	FC21	5x0.14 mm	BL	-	2	2	2	2	=isGate uni+Master/5
	-FC1T1:WT	FC21	5x0.14 mm	WT	+					

Rev. date:	27-07-2022	Type:	Master	Project name	dr-unit diverse
Version no:	4.0	Language:	en_EN	Group code	sGate uni
Drawn by:	WWI				Description

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Type:

Slave

Group:

sGate uni Master/Slave

Version no.:

Language: en_EN



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Drawn by:	en_EN				Title Sheet / Front Sheet
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3	TST FUZZ-B
4	TST FUZZ-B
5	TST FUZZ-B
6	Communication board TST FFRFUZ-COM
7	Mounting plate for HCU / traffic light(s)
8	View mounting plate
9	"+Slave-X2" Terminals Connection frame
10	"+Slave-X2A" Terminals Connection frame
11	"+Slave-X2A" Terminals Connection frame
12	"+Slave-X2B" Terminals Connection frame



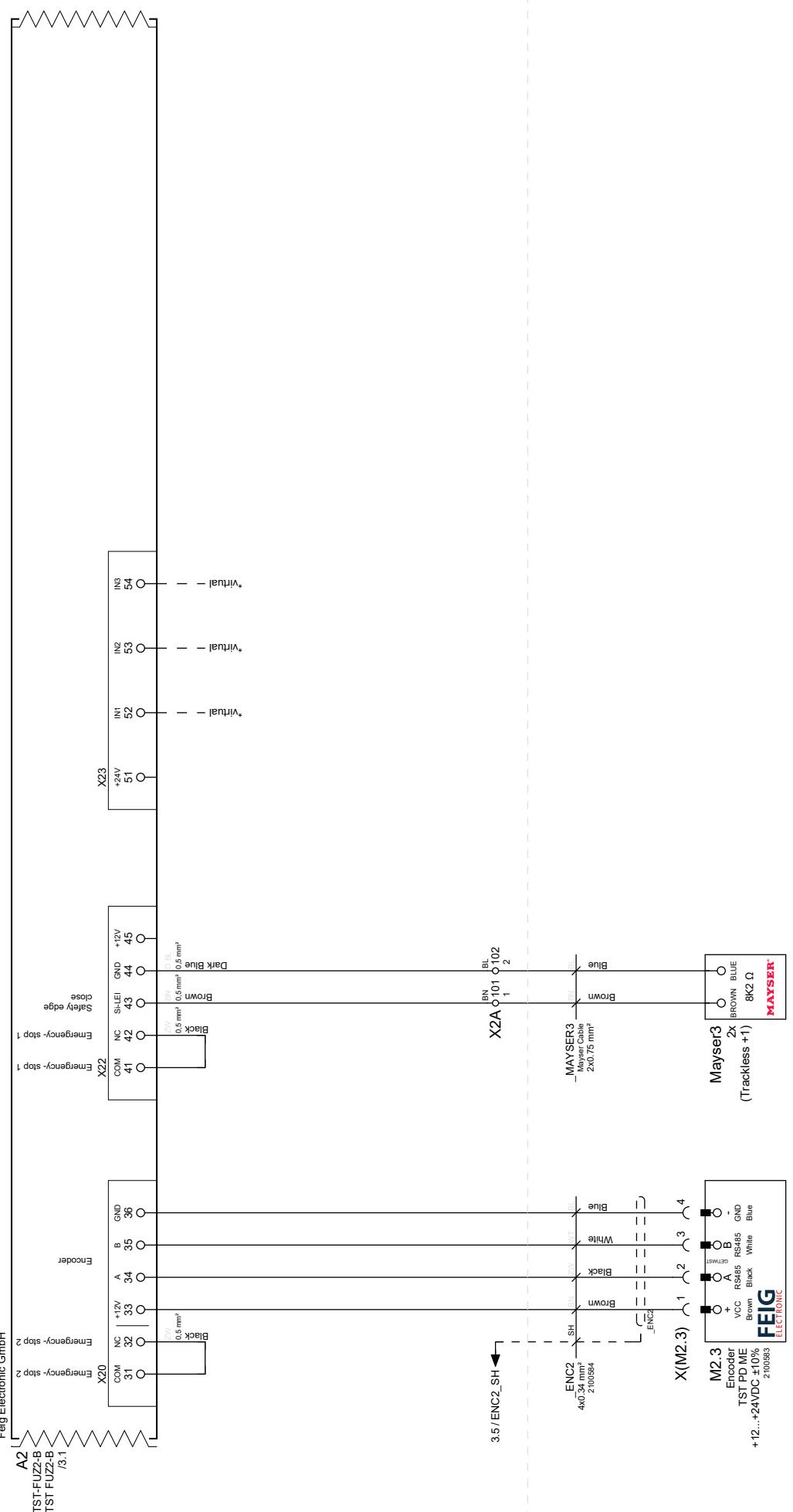
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Rev. date: 27-07-2022 **Type:** Slave
Version no: 4.0 **Language:** en_EN
Drawn by: WWI



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[SLAVE]



Encoder

Safety edge
close

Rev. date: 27-07-2022

Type: Slave

Project name: dr-unit diverse

Group code: sgate uni

Description: Master/Slave

Page title: TST FU22-B

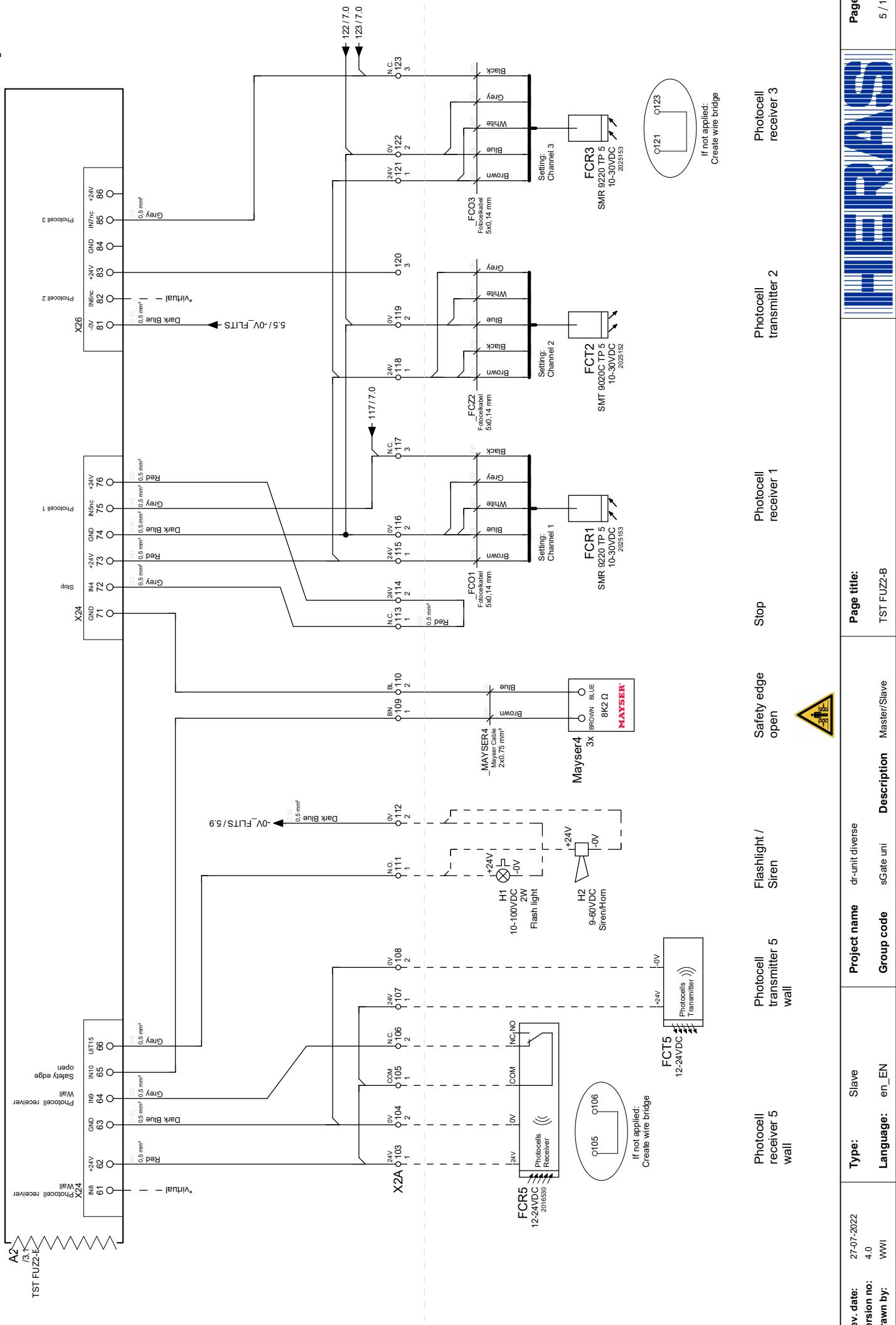
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MOUNTING PLATE <

Eplan version: 2.9.4

[SLAVE]



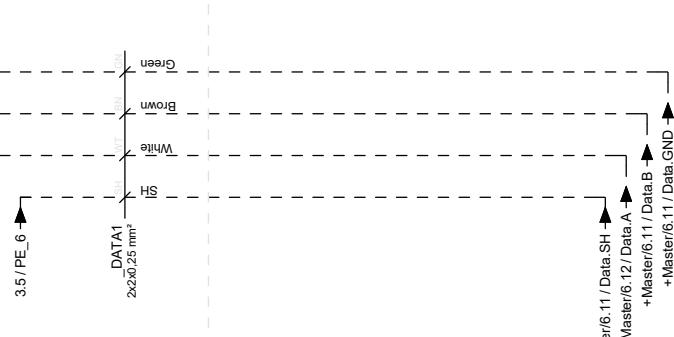
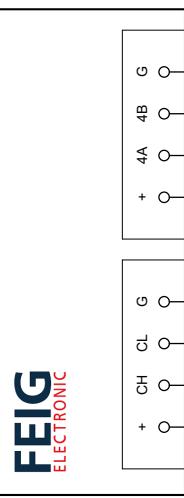
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[SLAVE]

Communication board TST FRFUZ-COM

Feig Electronic GmbH

A2.2
TST FRFUZ-COM
TST FUZZ-B
2100582



Communication

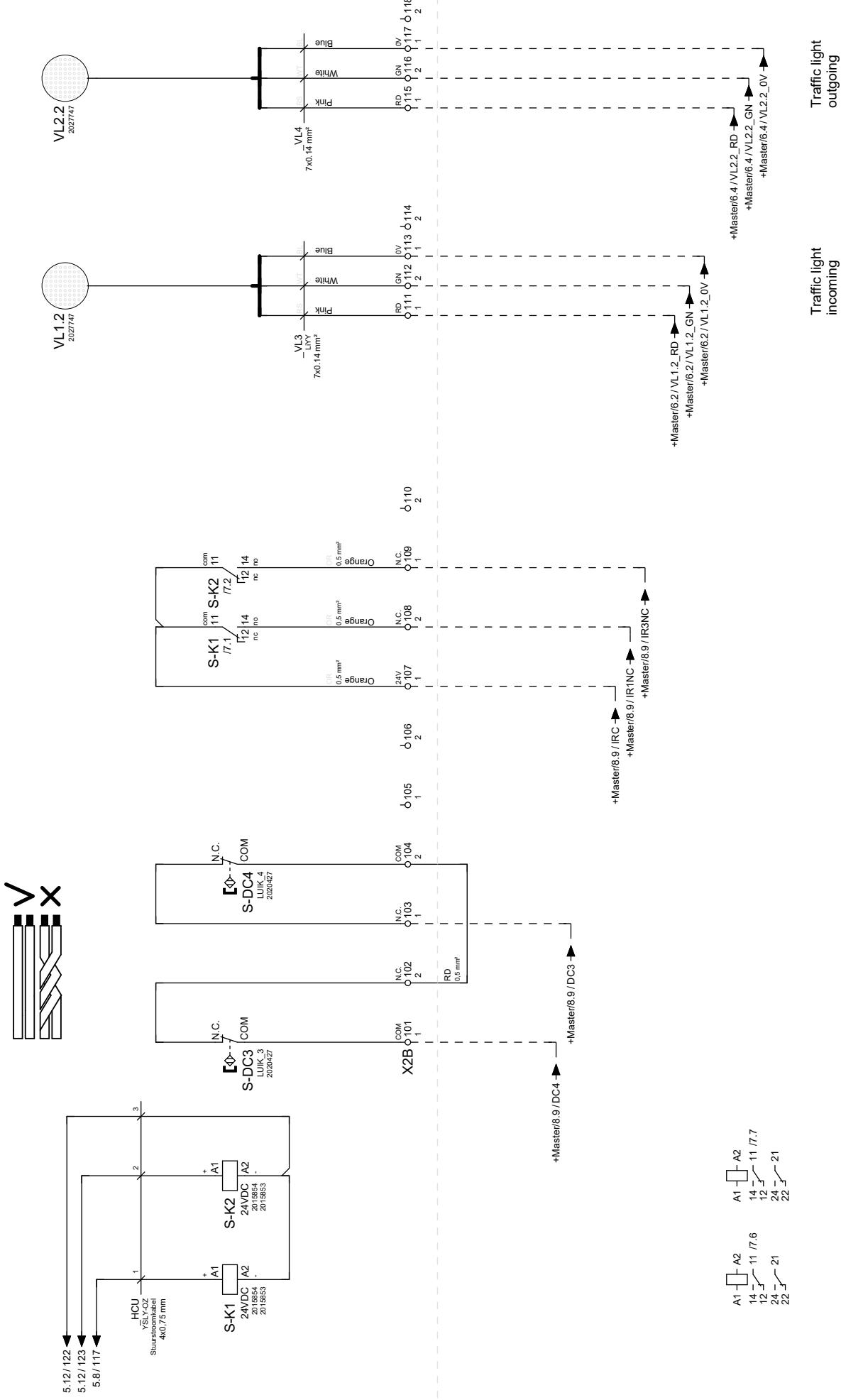
Page title:

Communication board TST FRFUZ-COM

Page

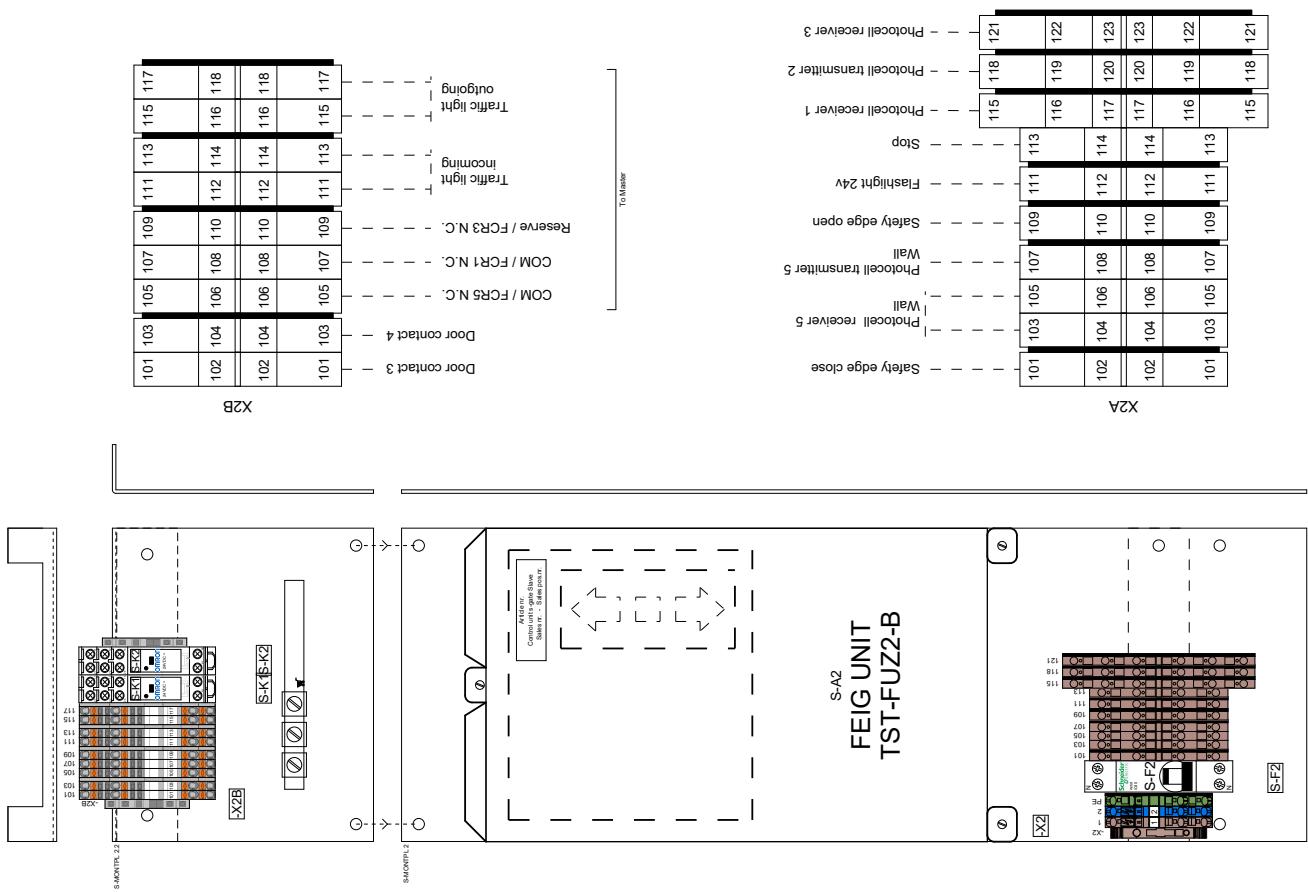
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[SLAVE]



Rev. date:	27-07-2022	Type:	Slave	Project name	cl-unit diverse	Page title:
Version no:	4.0	Language:	en_EN	Group code	sGate uni	Mounting plate for HCU / traffic light(s)
Drawn by:	WWI			Description	Master/Slave	
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[SLAVE]



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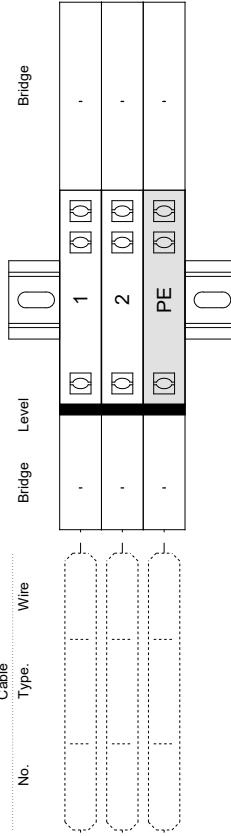
Terminals connection list

From

Connection code

From	Connection code
Power input	-X1:L
Power input	-X1:N
Power input	-X1:PE

Function text	Cable Type.	Wire	Bridge	Level	Bridge	Bridge	Page
Power input				1	□	□	=sGate uni-Slave/3
Power input				2	□	□	=sGate uni-Slave/3
Power input				PE	□	□	=sGate uni-Slave/3

X2

Industrialization_klemmenaansluistlijst_Voorwaardelijk

Rev. date: 27-07-2022
 Version no: 4.0
 Drawn by: WWI

Type: Slave
 Language: en_EN
 Group code: sGate uni

Project name: dri-unit diverse
 Description: Master/Slave

Page title:
 "+Slave-X2" Terminals Connection frame

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Eplan version: 2.9.4



Terminals connection list

From

Connection code

Function text

No.

Cable Type.

Wire

Bridge

Level

Bridge

Page

1

101

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Terminals connection list

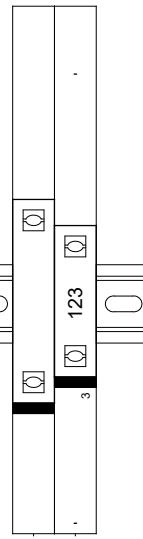
From Connection code

From	Connection code
	-FCR3:GS
Photocell receiver 3	-FCR3:~

To Function text

To	Function text
	Photocell receiver 3

X2A



Industrialization_klemmenaansluistijlst_Voorwaardelijk

Rev. date:	27-07-2022	Type:	Slave	Project name	dr-unit diverse	Page title:	HERAS	Page
Version no:	4.0	Language:	en_EN	Group code	sGate uni	Page title:	"+Slave-X2A" Terminals Connection frame	11 / 12
Drawn by:	WWI			Description	Master/Slave			

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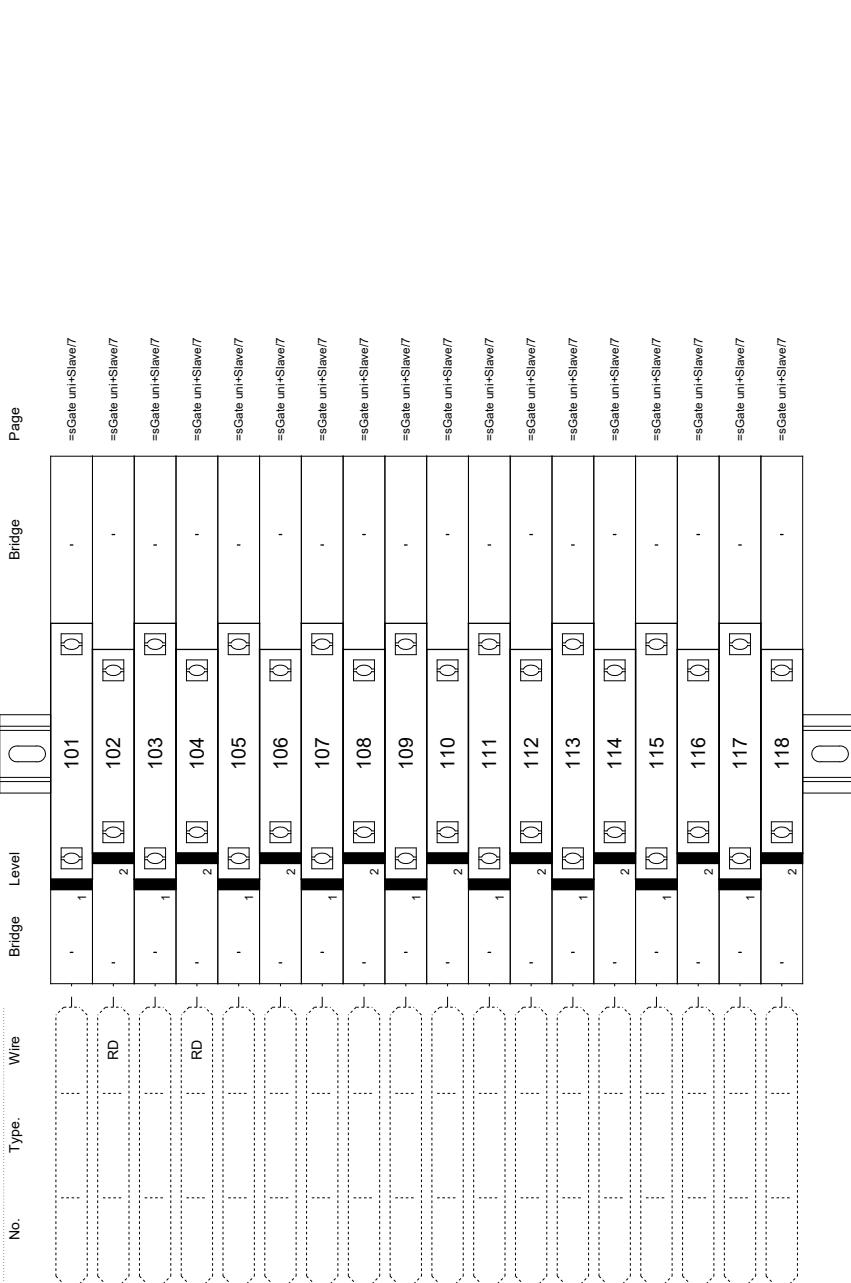
Eplan version: 2.9.4

Terminals connection list

From Connection code

From	Connection code	Function text
	+Master-X1B:105	
-X2B:104		
	+Master-X1B:106	
-X2B:102		
Spare		
Spare		
+Master-X1B:107		
+Master-X1B:108		
+Master-X1B:110		
Spare		
Traffic light incoming	+Master-X1A:136	Traffic light incoming
Traffic light incoming	+Master-X1A:137	Traffic light incoming
Traffic light incoming	+Master-X1A:138	Traffic light incoming
Traffic light outgoing	+Master-X1A:139	Traffic light outgoing
Traffic light outgoing	+Master-X1A:140	Traffic light outgoing
Traffic light outgoing	+Master-X1A:141	Traffic light outgoing
Spare		

X2B



Industrialization_klemmenaansluistlijst_Voorwaardelijk



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Page title:
"+Slave-X2B" Terminals Connection frame

Page title:
Indus_dr-unit_Plotkader v1.0

Type:

Appendix

Group:

sGate uni Master/Slave

Version no.:

Language: en_EN



Rev. date:	27-07-2022	Type:	Appendix	Project name	dr-unit diverse	Page title:	Page
Version no:	4.0	Language:	en_EN	Group code	sGate uni	Description	Title Sheet / Front Sheet
Drawn by:	WWI						1 / 5

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Page	Page title:
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2	Index
A	Appendix A Input messages on display
B	Appendix B Connecting photocells configuration
C	Appendix C Alternative without loops

0	1	2	3	4	5	6	7	8	9	10	11	12
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Appendix: A | Input messages on display

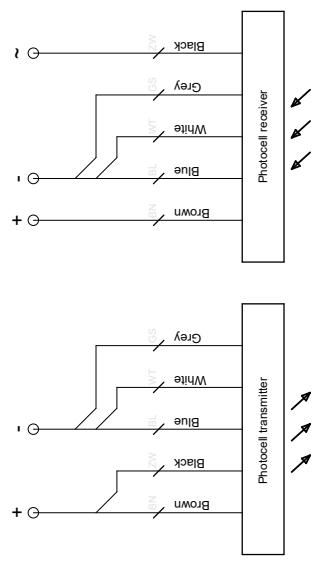
Notification Master	Notification Slave	clamp description	Connection Feig	Terminal no.	Function	Location malfunction	Master	Slave
E.000	E.000	Open	X502	-	Open key foil keyboard	X	X	X
E.050	E.050	Stop	X502	-	Stop button foil keyboard	X	X	X
E.090	E.090	Closed	X502	-	Close key foil keyboard	X	X	X
E.101	E.13a	IN 3A *Virtual*	IN1	52	X1A:122 Open incoming	X		
E.102	E.13b	IN 3B *Virtual*	IN2	53	X1A:123 Open outgoing	X		
E.103	E.13c	IN 3C *Virtual*	IN3	54	X1A:125 Semi opening	X		
E.104	E.13d	IN 3D *Virtual*	IN4	72	X1A:126 Stop	X		
E.13e	E.105	IN 3E *Virtual*	IN5	75	X2A:117 Photocell receiver 1	X		
E.106	E.13e	IN 3E *Virtual*	IN6	82	X1A:132 Photocell receiver 2	X		
E.13f	E.107	IN 3F *Virtual*	IN7	85	X2A:123 Photocell receiver 3	X		
E.108	E.115	IN 15 *Virtual*	IN8	61	X1A:106 Photocell receiver 4 wall	X		
E.115	E.109	IN 15 *Virtual*	IN9	64	X2A:106 Photocell receiver 5 wall	X		
E.380	E.111	IN 11 *Virtual*	IN10	65	X1A:109 Safety edge open	X		
E.360	E.112	IN 12 *Virtual*	Si-LEI	43	X1A:101 Safety edge close	X		
E.111	E.380	IN 11 *Virtual*	IN10	65	X2A:109 Safety edge open	X		
E.112	E.360	IN 12 *Virtual*	Si-LEI	43	X2A:101 Safety edge close	X		
E.113	E.113	IN 13 *Virtual*	IN13	Det3	X1A:117-118 Column side safety loop	X		
E.114	E.114	IN 14 *Virtual*	IN14	Det4	X1A:119-120 Leaf side safety loop	X		
E.121	-		IN21	331	X1A:143 Emergency open	X		
E.122	-		IN22	334	X1A:144 Emergency close	X		
E.123	-		IN23	341	- Opening dead man's	X		
E.124	-		IN24	361	- Closing dead man's	X		
E.125	-		IN25	362	- Normal closing	X		



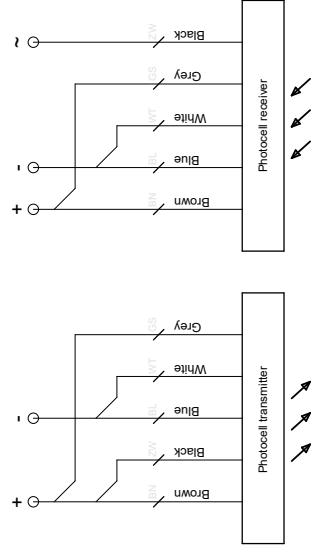
Appendix: B | Connecting photocells configuration

Gray & White Control The Channel

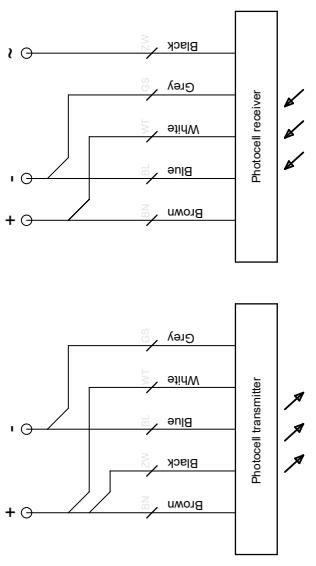
Setting: Channel 1



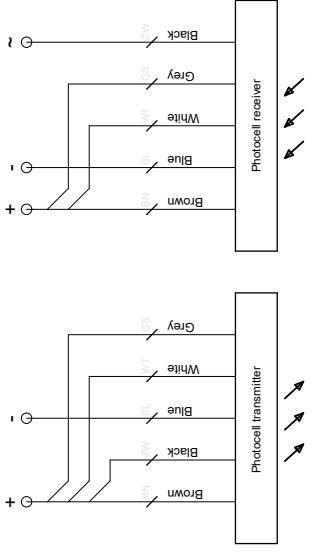
Setting: Channel 2



Setting: Channel 3



Setting: Channel 4



Rev. date: 27-07-2022
Version no: 4.0
Drawn by: WWI

Type: Appendix
Language: en_EN

Project name: dr-unit diverse
Group code: sGate uni

Description: Master/Slave

Page title:

Page: 5

Page: 2.9.4

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Appendix: B | Connecting photocells configuration

Page: 2.9.4

Page: B / 5

Eplan version: 2.9.4



Appendix C | Alternative without loops

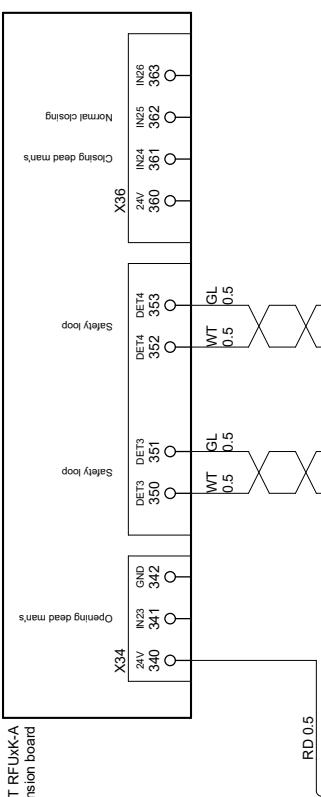
The diagram illustrates two alternative circuit configurations for the TST RFUxKA Expansion board, separated by a dashed horizontal line.

Top Configuration: This configuration uses a single X34 connector. The connections are as follows:

- Opening dead man's: X34 pins 24V, IN23, GND, 341, 342.
- Safety loop: X34 pins 350, 351.
- Normal closing: X36 pins 24V, IN24, IN25, IN26.
- Closing dead man's: X36 pins 360, 361, 362, 363.
- WT: X36 pin 353.
- CL: X36 pin 355.
- M-R2: 220 μ H, 1.6 Ω , 0.4 A.
- M-R1: 220 μ H, 1.6 Ω , 0.4 A.
- RD 0.5: A resistor connected to ground.

Bottom Configuration: This configuration uses two X34 connectors. The connections are as follows:

- Opening dead man's: X34 pins 24V, IN23, GND, 341, 342.
- Safety loop: X34 pins 350, 351.
- Normal closing: X36 pins 24V, IN24, IN25, IN26.
- Closing dead man's: X36 pins 360, 361, 362, 363.
- WT: X36 pin 352.
- CL: X36 pin 354.
- M-R2: 220 μ H, 1.6 Ω , 0.4 A.
- M-R1: 220 μ H, 1.6 Ω , 0.4 A.
- RD 0.5: A resistor connected to ground.



תְּבִיבָה / מִלְּמַדְתָּא וְמִלְּמַדָּה

Master Défaut Master Alterhâlfet

P.A03 1501 P.A03 1803

F.A3Z U (N.C.)

Slave Default Slave Alternatief

P.A03 1501 P.A03 1803

P.A32 0 P.A32 1 (N.C.)

PASSWORD LEVEL: 3

Loop 4

| 000 4 → Alternative [in24]

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Slave Allegiance

P.A04 1502 P.A04 1804

F.A42 U F.A42 U (N.C.)

PASSWORD LEVEL: 3

Loop 4

Standard with safety loops



Alternative without safety loops

HIERARCHIES						Page
Rev. date:	Type:	Project name	dr-unit diverse			Page title:
Version no:	27-07-2022	Appendix	Group code	Gate uni	Description	Master/Slave
Drawn by:	4.0 WWI	Language: en_EN				Appendix: C Alternative without loops
						C / 5

Type:

Standalone

Group:

sGate uni sa Standalone

Version no.:

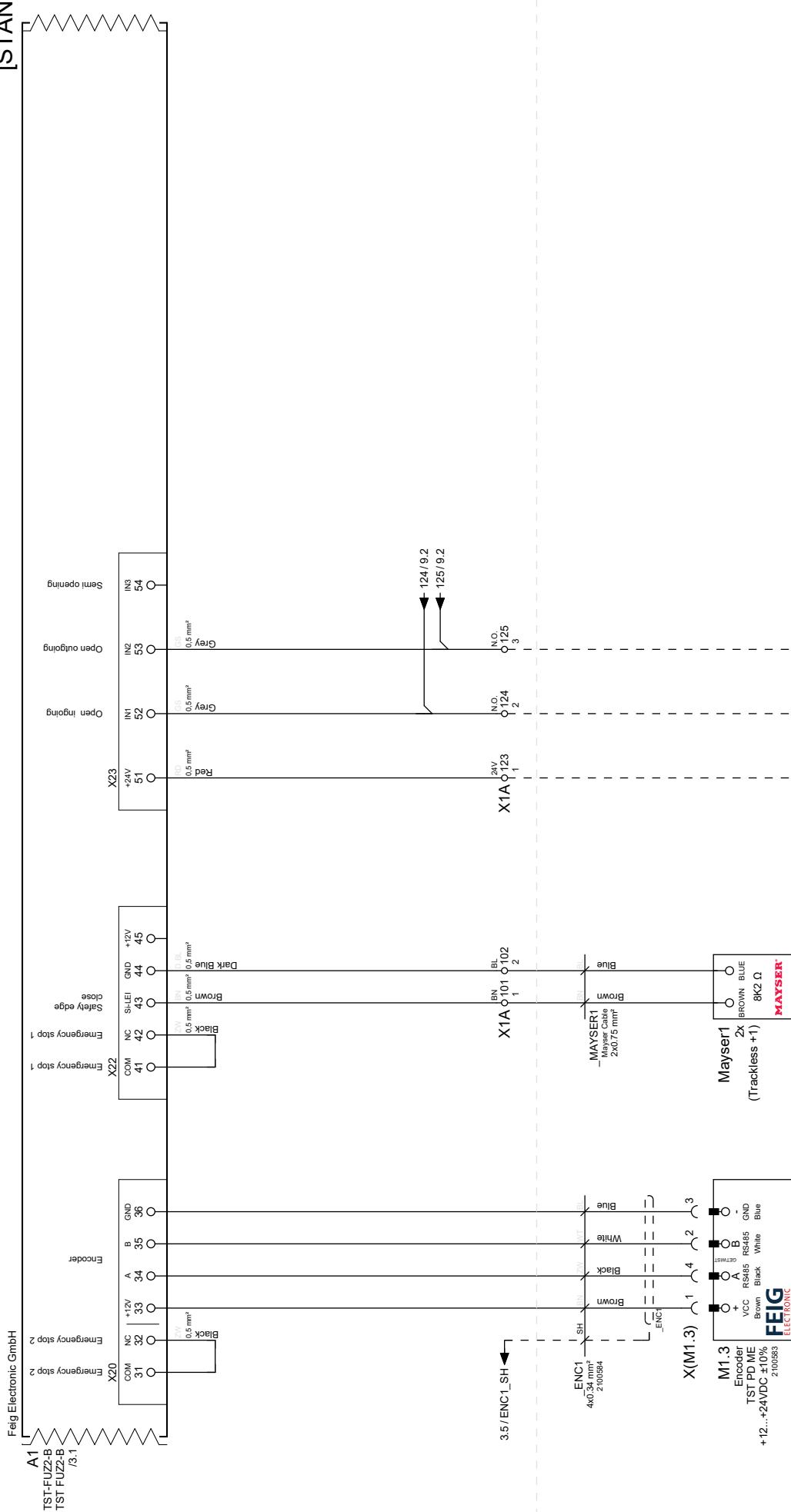
Language: en_EN



HERAIS

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Page	Page title:
1	Title Sheet / Front Sheet
2	Index
3	TST FUZ2-B
4	TST FUZ2-B
5	TST FUZ2-B
6	Photocells
7	Expansion board TST-FUZ-xK
8	TST SUVEK2-A 2 channel detector optional*
9	Heras Cloud Unit (HCU)
10	View mounting plate
11	"+Standalone-X1" Terminals Connection frame
12	"+Standalone-X1A" Terminals Connection frame
13	"+Standalone-X1A" Terminals Connection frame
14	"+Standalone-X1A" Terminals Connection frame
15	"+Standalone-X1B" Terminals Connection frame

[STANDALONE]

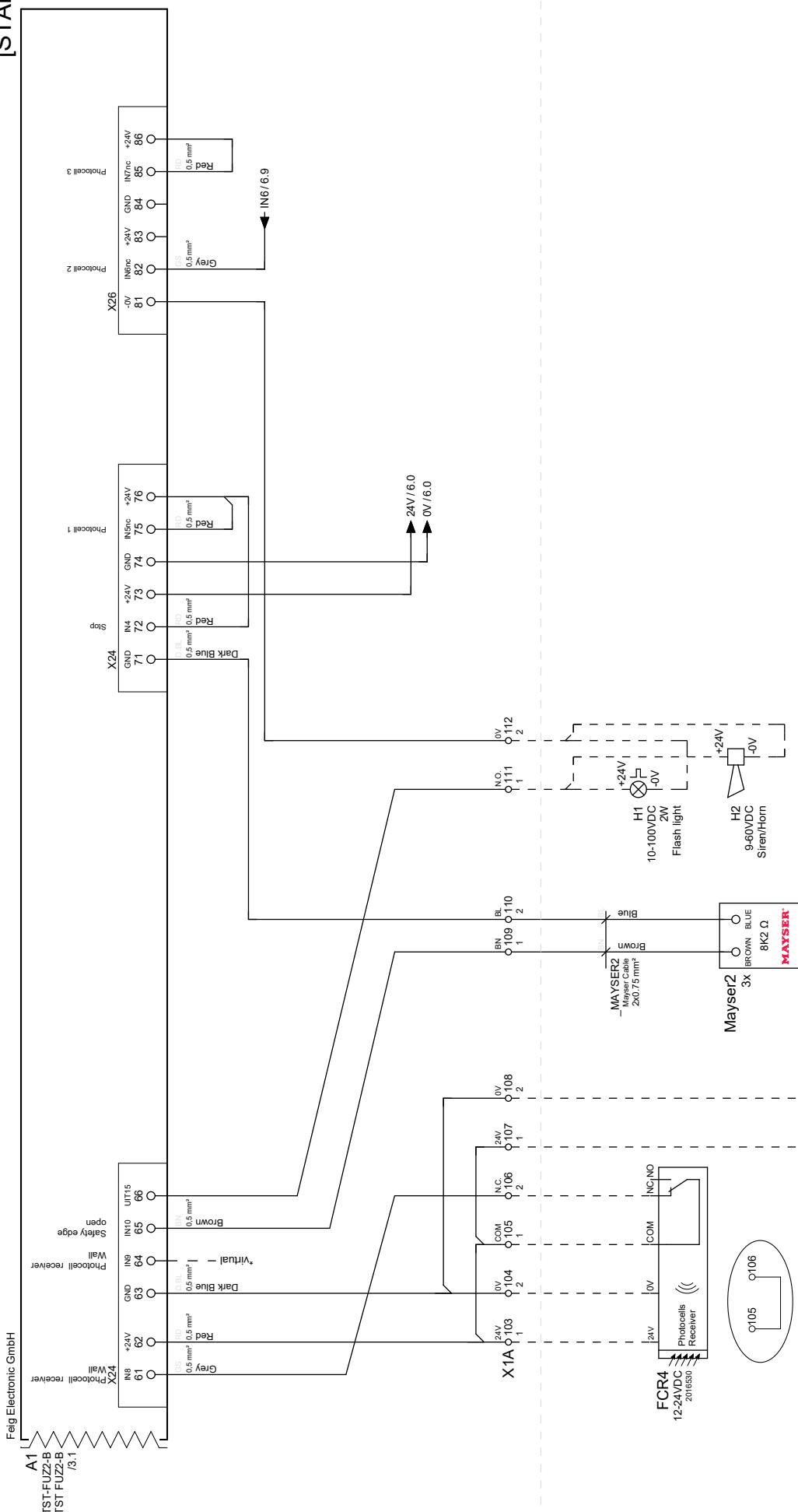
Encoder

Safety edge close



Controls

[STANDALONE]

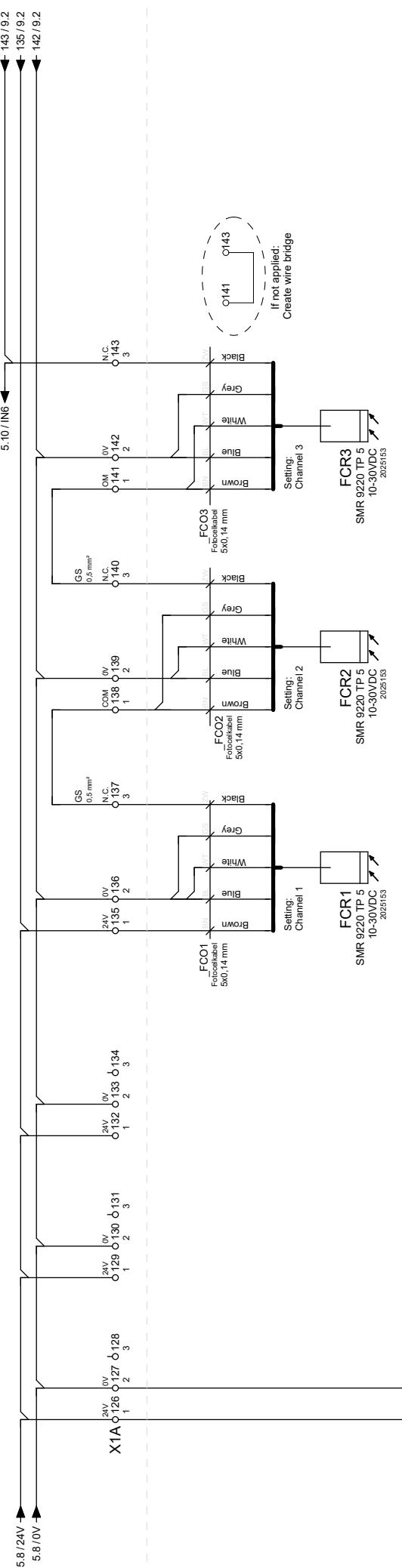


Photocell receiver 4 wall
Photocell transmitter 4 wall
Safety edge open
Flashlight / Siren



Page title:

Rev. da
Version
Drawn



IRZ1-/-Siam/3.4

IR21+/+Siam/3.3

Infrared Transmitter 1

Infrared Transmitter 2

Infrared Transmitter 3

Photocell receiver 1

Photocell receiver 2

Photocell receiver 3

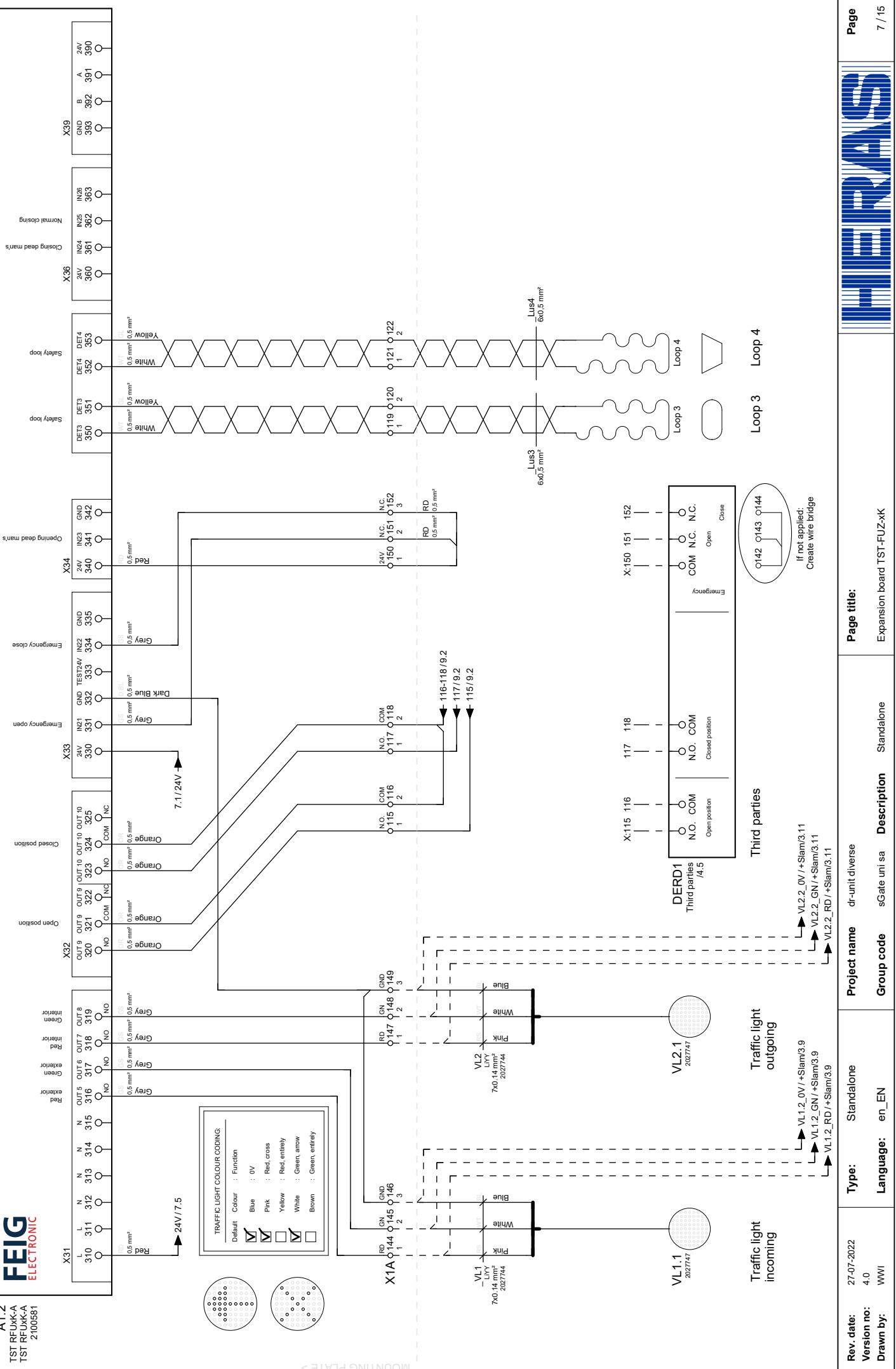
FIRE RAS						Page
Rev. date:	27-07-2022	Type:	Standalone	Project name	dr-unit diverse	Page title:
Version no:	4.0	Language:	en_EN	Group code	sGate uni sa	Photocells
Drawn by:	WWI					6 / 15

[STANDALONE]

Ecia Electronic GmbH

A1.2
ST RFUXK-A
ST RFUXK-A
2100581

Expansion board TST-FUZ-xK



[STANDALONE]

TST SUVEK2-A, 2 channel detector



Feig Electronic GmbH

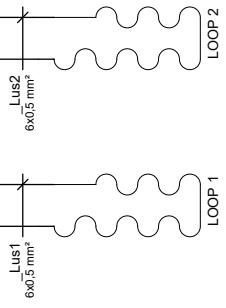
A1.3
TST SUVEK2-A
2100586FEIG
ELECTRONIC

Free exit loop

Presence loop for output 1

DET1' DET2'

DET1

Free exit loop
Presence loop
for output 1

Page title:

TST SUVEK2-A 2 channel detector optional

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Eplan version: 2.9.4

HERAS
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Rev. date:
Version no:
Drawn by:27-07-2022
4.0
WWIType:
Language:

Standalone

en_EN

Project name
dr-unit diverse

sgate uni sa

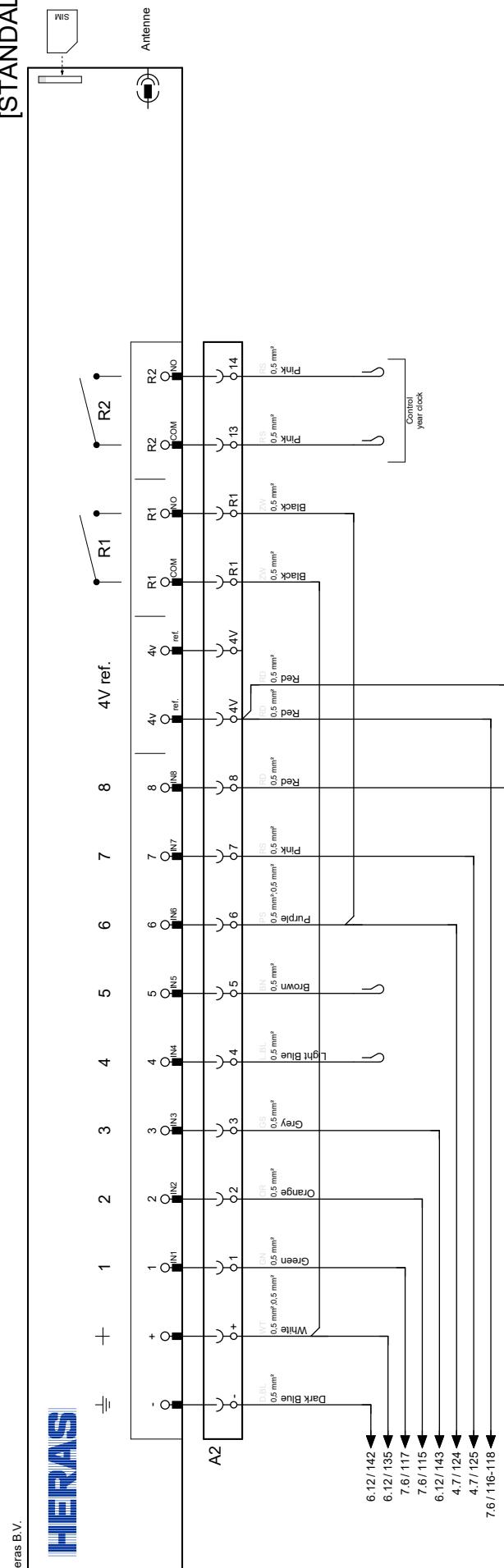
Description

Standalone

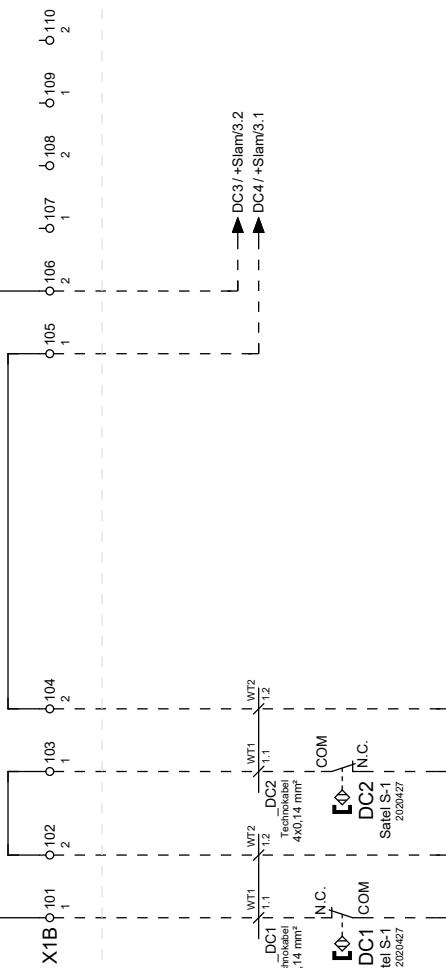
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[STANDALONE]



* Configuration	
1	Gate Closed
2	Gate Open
3	Photocell 1
4	Photocell 2
5	Photocell 3
6	Open incoming
7	Open outgoing
8	Notification Hatch(s) open



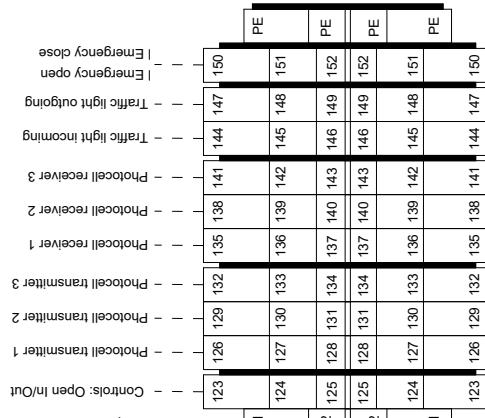
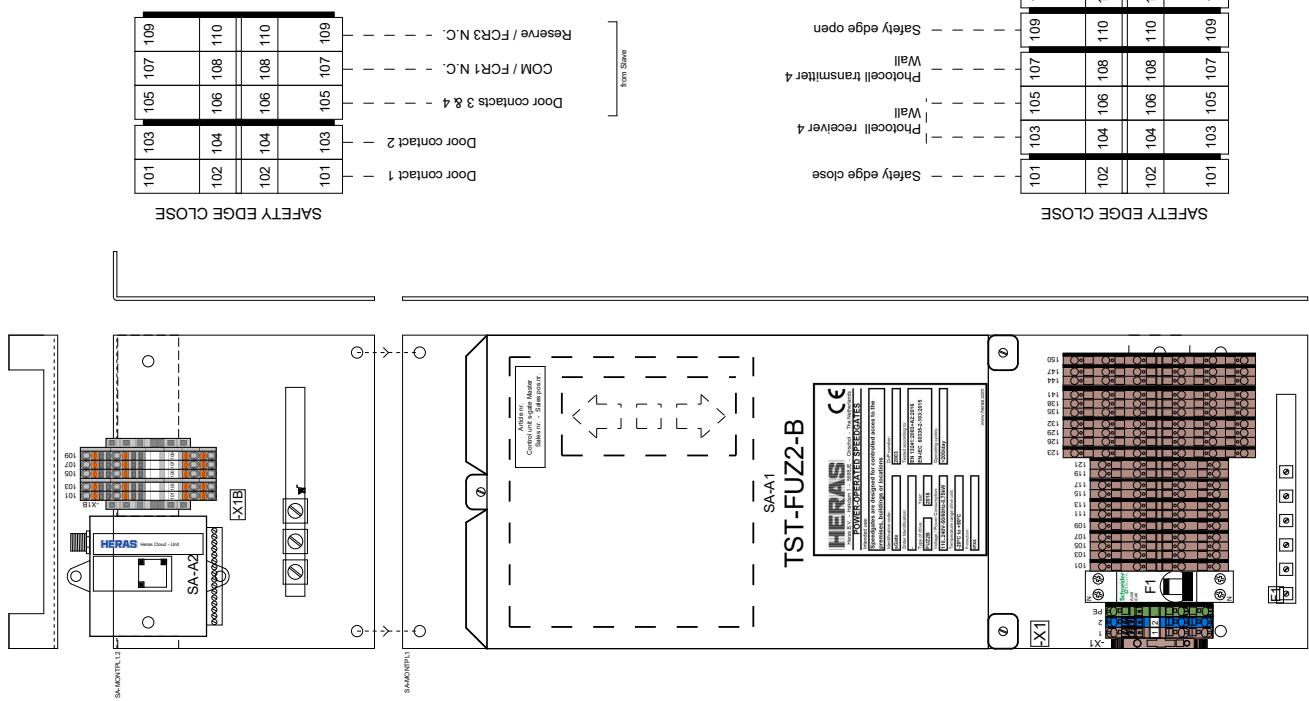
Page title:

Heras Cloud Unit (HCU)

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[STANDALONE]



Page title:	Page:
View mounting plate	10 / 15

Rev. date:	27-07-2022	Type:	Standalone	Project name	dr-unit diverse
Version no:	4.0	Language:	en_EN	Group code	Standalone
Drawn by:	WWI				

Terminals connection list

From

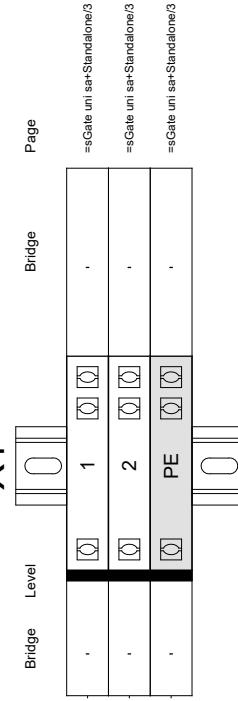
Connection code

From	Connection code
Power input	-VI:L
Power input	-VI:N
Power input	-VI:PE

Function text	Cable Type.	Wire	Bridge	Level	Bridge	Bridge	Page
Power input	_C001	2x2.5 mm ²	BN	*	1	□	=sGate uni sa+Standalone/3
Power input	_C001	2x2.5 mm ²	BL	*	2	□	=sGate uni sa+Standalone/3
Power input	_C001	2x2.5 mm ²	SH	*	PE	□	=sGate uni sa+Standalone/3

X1

Industrialization_klemmenaansluitlijst_Voorwaardelijk



Rev. date: 27-07-2022
Version no: 4.0
Drawn by: WWI

Type: Standalone
Language: en_EN

Project name: dr-unit diverse
Group code: sGate uni sa
Description: Standalone

Page title:
"+Standalone-X1" Terminals Connection frame

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Eplan version: 2.9.4

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"+Standalone-X1" Terminals Connection frame

HERAS

Terminals connection list

Page	Bridge							Bridge		Page
	Cable	Type	Wire	Bridge	Level	Bridge	Wire			
No.	Connection code	Function text								
Safety edge close	-Mayser1:	BROW/N								=sGate uni sa+Standalone/4
Safety edge close	-Mayser1:	MAYSER1 2x0.75 mm²	BN	1	1	1	1	1	1	=sGate uni sa+Standalone/4
Photocell receiver 4 wall	-FCR4:24V	BLUE								=sGate uni sa+Standalone/4
Photocell receiver 4 wall	-FCR4:0V	Photocell receiver 4 wall								=sGate uni sa+Standalone/5
Photocell receiver 4 wall	-FCR4:COM	Photocell receiver 4 wall								=sGate uni sa+Standalone/5
Photocell receiver 4 wall	-FCR4:NC	Photocell receiver 4 wall								=sGate uni sa+Standalone/5
Photocell transmitter 4 wall	-FCT4:+24V	Photocell transmitter 4 wall								=sGate uni sa+Standalone/5
Photocell transmitter 4 wall	-FCT4:-0V	Photocell transmitter 4 wall								=sGate uni sa+Standalone/5
Safety edge open	-Mayser2:	BROW/N								=sGate uni sa+Standalone/5
Flashlight / Siren	-Mayser2:	BLUE								=sGate uni sa+Standalone/5
Flashlight / Siren	-H1:+24V	Flash light								=sGate uni sa+Standalone/5
Flashlight / Siren	-H2:+24V	Siren/Horn								=sGate uni sa+Standalone/5
Flashlight / Siren	-H1:-0V	Flash light								=sGate uni sa+Standalone/5
Presence loop Output	-H2:-0V	Siren/Horn								=sGate uni sa+Standalone/3
Third parties	-A2:2	OR								=sGate uni sa+Standalone/7
Third parties	-A2:1	GN								=sGate uni sa+Standalone/7
Third parties	-A2:4V	RD								=sGate uni sa+Standalone/7
Loop 3	-LUS-3:	SLUTVEILIGHED								=sGate uni sa+Standalone/7
Loop 4	-LUS-3:	SLUTVEILIGHED								=sGate uni sa+Standalone/7
Loop 4	-LUS-4:	SLUTVEILIGHED								=sGate uni sa+Standalone/7
Loop 4	-LUS-4:	SLUTVEILIGHED								=sGate uni sa+Standalone/7
Controls	-DERD1:COM	COM								=sGate uni sa+Standalone/4
Controls	-DERD1:N.O.	OPENING INCOMING								=sGate uni sa+Standalone/4
Controls	-DERD1:N.O.	OPENING OUTGOING								=sGate uni sa+Standalone/4
Infrared Transmitter 1	+Slam-X2B:105	Photocell transmitter 1								=sGate uni sa+Standalone/6
Infrared Transmitter 2	+Slam-X2B:106	Photocell transmitter 1								=sGate uni sa+Standalone/6

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"+Standalone-X1A" Terminals Connection frame

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Document version: 2

Page
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Eplan version: 2.9.4

Terminals connection list

From

Connection code

Function text

Bridge

Level

Bridge

Page

Infrared Transmitter 2									=sGate uni sa+Standalone/6
Infrared Transmitter 2									=sGate uni sa+Standalone/6
Infrared transmitter 3									=sGate uni sa+Standalone/6
Infrared transmitter 3									=sGate uni sa+Standalone/6
Infrared transmitter 3									=sGate uni sa+Standalone/6
Infrared transmitter 3									=sGate uni sa+Standalone/6
Photocell receiver 1	FCR1:+								=sGate uni sa+Standalone/6
Photocell receiver 1	-FCR1:-								=sGate uni sa+Standalone/6
	-FCR1:WT	Photocell receiver 1							
Photocell receiver 1	-FCR1:GS								=sGate uni sa+Standalone/6
Photocell receiver 1	-FCR1:~-								=sGate uni sa+Standalone/6
Photocell receiver 2	-FCR2:+								=sGate uni sa+Standalone/6
Photocell receiver 2	-FCR2:~-	Photocell receiver 2							=sGate uni sa+Standalone/6
Photocell receiver 2	-FCR2:GS								=sGate uni sa+Standalone/6
Photocell receiver 2	-FCR2:WT	Photocell receiver 2							=sGate uni sa+Standalone/6
Photocell receiver 2	-FCR2:~-								=sGate uni sa+Standalone/6
Photocell receiver 2	-FCR3:+								=sGate uni sa+Standalone/6
Photocell receiver 2	-FCR3:~-								=sGate uni sa+Standalone/6
Photocell receiver 3	-FCR3:GS	Photocell receiver 3							=sGate uni sa+Standalone/6
Photocell receiver 3	-FCR3:~-								=sGate uni sa+Standalone/6
Traffic light incoming	+Slam-X2B:111								=sGate uni sa+Standalone/7
Traffic light incoming	-VL1:1:RD								=sGate uni sa+Standalone/7
Traffic light incoming	Green								=sGate uni sa+Standalone/7
Traffic light incoming	-VL1:1:DV	Traffic light incoming							=sGate uni sa+Standalone/7
+Slam-X2B:113	-VL1:1:GN								=sGate uni sa+Standalone/7
+Slam-X2B:112	+Slam-X2B:112	Traffic light incoming							=sGate uni sa+Standalone/7
Traffic light outgoing	-VL2:1:RD								=sGate uni sa+Standalone/7
+Slam-X2B:115	+Slam-X2B:115	Traffic light outgoing							=sGate uni sa+Standalone/7
Traffic light outgoing	-VL2:1:GN	Green							=sGate uni sa+Standalone/7

Rev. date: 27-07-2022

Type: Standalone

Project name: dr-unit diverse

Group code: SGate uni sa

Description: Standalone

Standalone

Page title:

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"+Standalone-X1A" Terminals Connection frame

Page: 2.9.4

Eplan version: 1.0



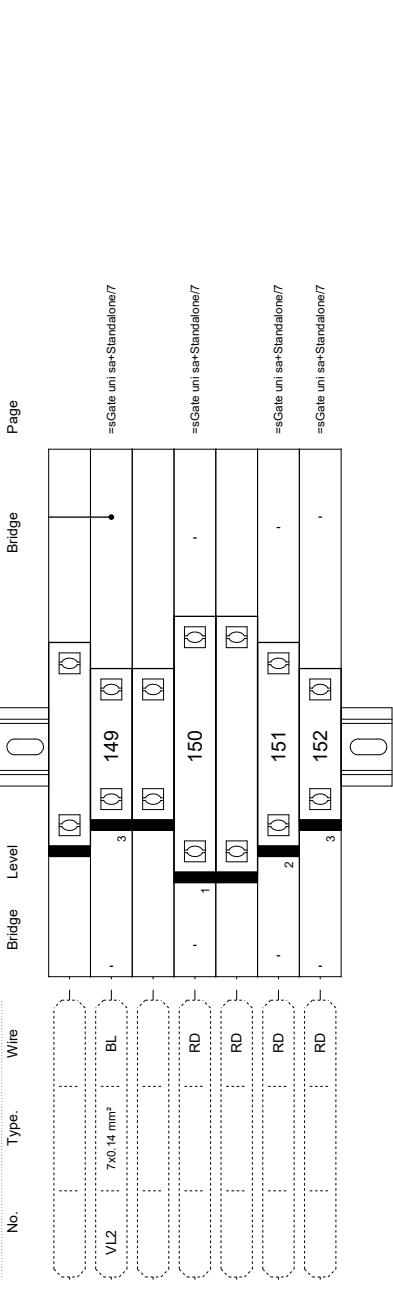
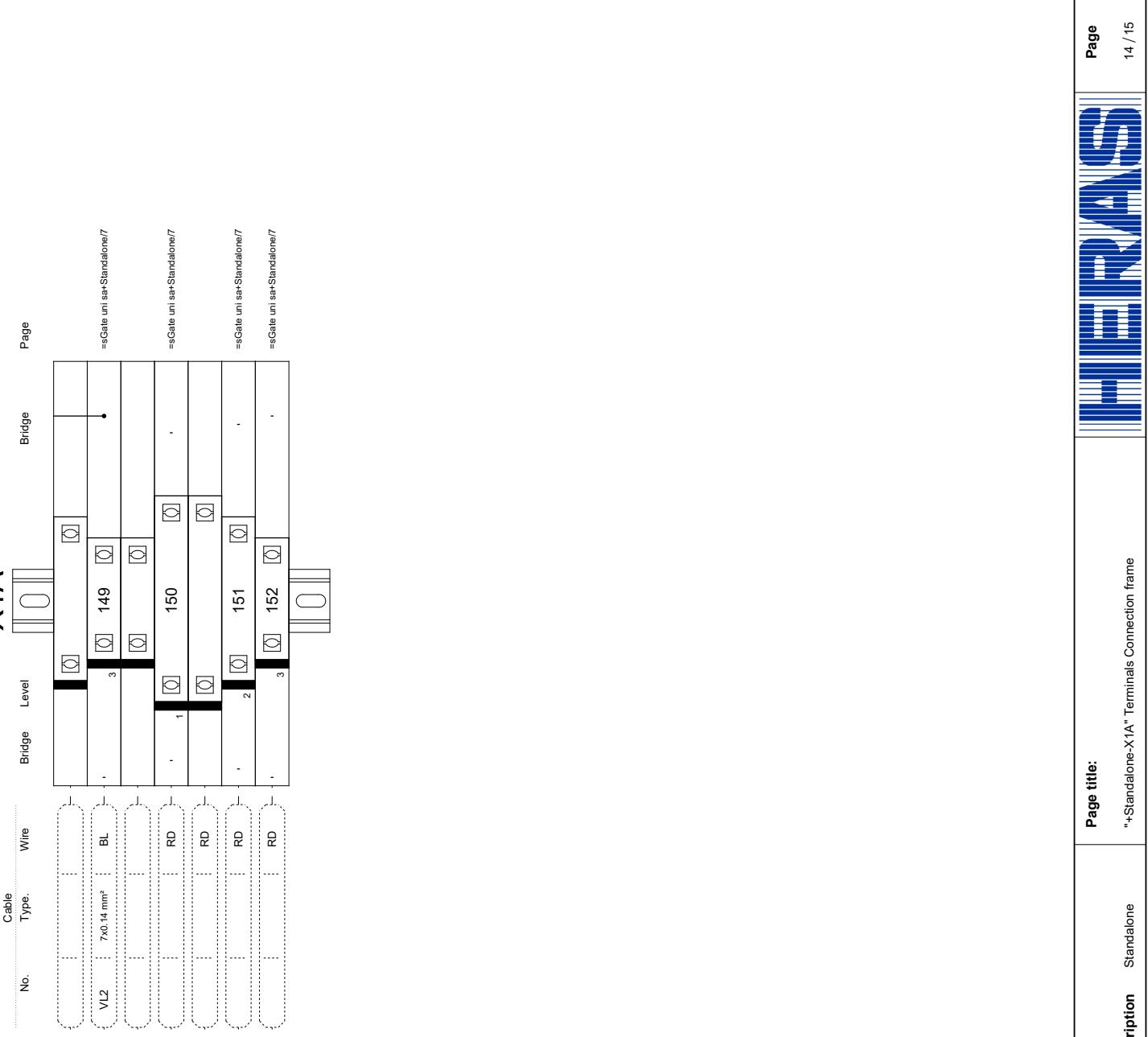
HERA

Terminals connection list

Connection code

From	To	Function text
Traffic light outgoing	+Slam-X2B-116	Traffic light outgoing
	-VL2.1:0V	-0V
	+Slam-X2B-117	Traffic light outgoing
Third parties	-X1A:151	Third parties
	-X1A:152	Loop 3
Third parties	-X1A:150	Third parties
Loop 3	-X1A:150	Third parties

Industriele_klemmenaansluistlijst_Voorwaardelijk

**X1A**

Page:

"+Standalone-X1A" Terminals Connection frame
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Page:

"+Standalone-X1A" Terminals Connection frame
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Terminals connection list

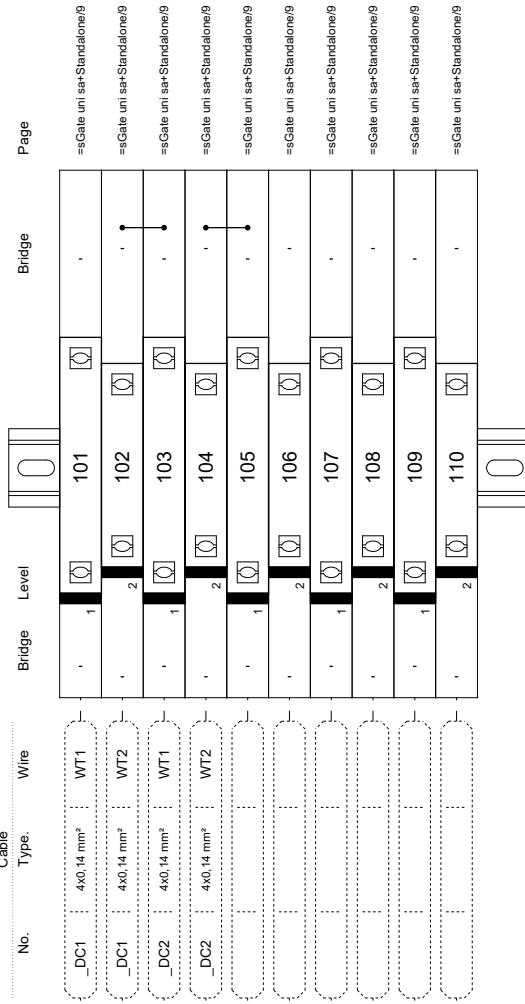
From

Connection code

Function text

From	Connection code	Function text
	-DC1:NC.	
	-DC1:COM	
	-DC2:COM	
	-DC2:NC.	
	+Slam-X2B:101	
	+Slam-X2B:103	
Spare		

X1B



Industrialization_klemmenaansluitlijst_Voorwaardelijk

Rev. date:	27-07-2022	Type:	Standalone	Project name	dr-unit diverse	Page title:	"Standalone-X1B" Terminals Connection frame
Version no:	4.0	Language:	en_EN	Group code	sGate uni sa	Standalone	
Drawn by:	WWI						

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Type: Slam

Group: sGate uni sa Standalone

Version no: 4.0

Language: en_EN



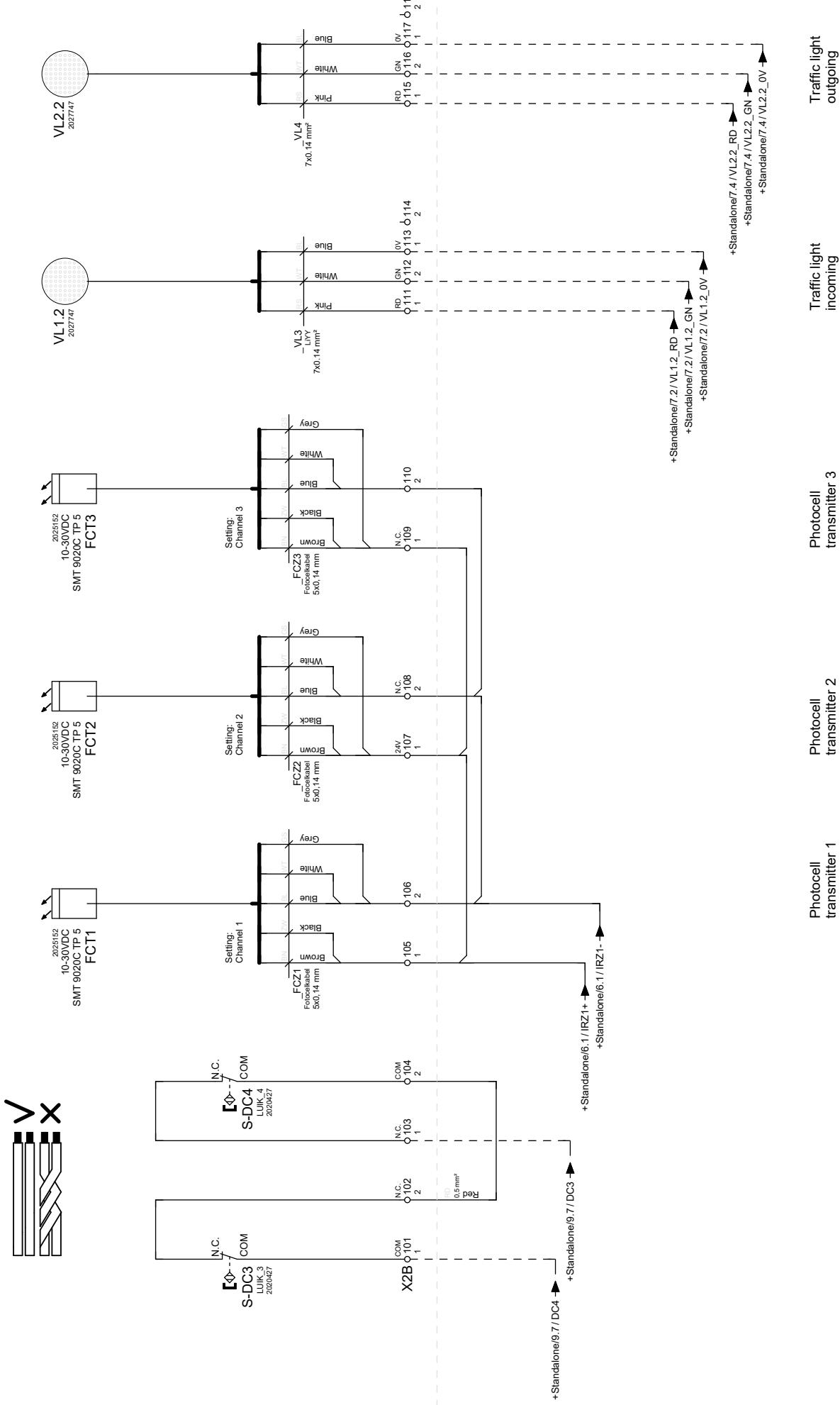
Rev. date:	27-07-2022	Type:	Slam	Project name	dr-unit diverse	Page title:	
Version no:	4.0	Language:	en_EN	Group code	sGate uni sa	Description	Standalone
Drawn by:	WWI					Title Sheet / Front Sheet	



Index

Page	Page title:
1	Title Sheet / Front Sheet
2	Index
3	Mounting plate for HCU / traffic light(s)
4	View mounting plate
5	"SIam->X2B" Terminals Connection frame

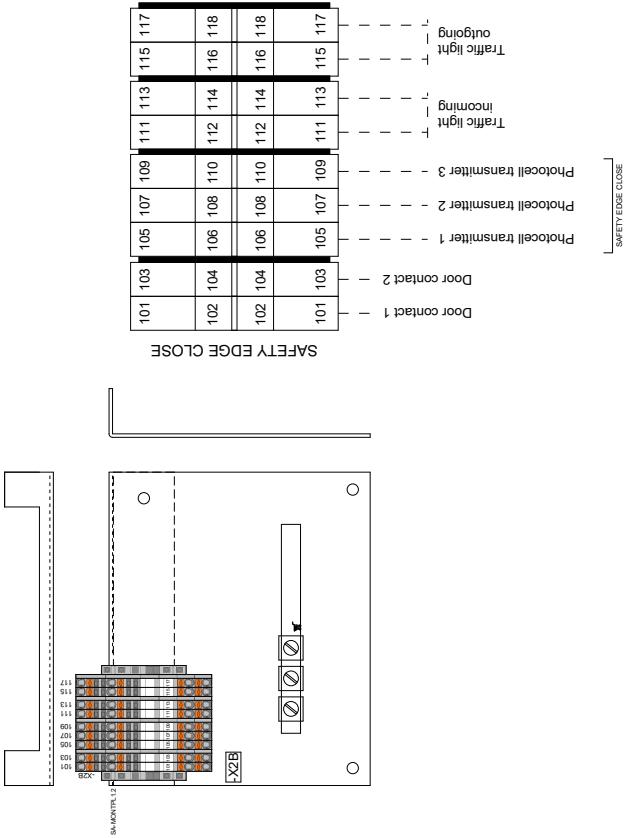
[STANDALONE SLAM]



Rev. date:	27-07-2022	Type:	Slam	Project name	dr-unit diverse	Page title:	Mounting plan
Version no.:	4.0	Language:	en_EN	Group code	sgGate uni sa	Description	Standalone
Drawn by:	WWI						

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[STANDALONE SLAM]



Page:

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Project name	dr-unit diverse	Description	Standalone	Page title:
Group code	sGate uni sa			View mounting plate

Rev. date: 27-07-2022

Version no: 4.0

WWI

Language: en_EN

Drawn by:

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Type:

Appendix sa

Group:

sGate uni sa Standalone

Version no.:

Language: en_EN



							Page title:	Page
Rev. date: Version no: Drawn by:	27-07-2022 4.0 WWI	Type: Language:	Appendix sa en_EN	Project name Group code	cr-unit diverse sGate uni sa	Description	Standalone	Title Sheet / Front Sheet 1 / 5

Index

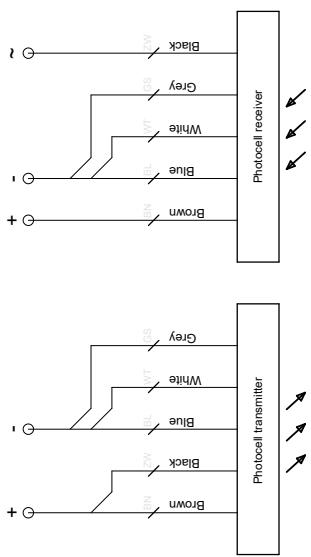
Page	Page title:
1	Title Sheet / Front Sheet
2	Index
A	Appendix A Input messages on display
B	Appendix B Connecting photocells configuration
C	Appendix C Alternative without loops

Appendix: A | Input messages on display

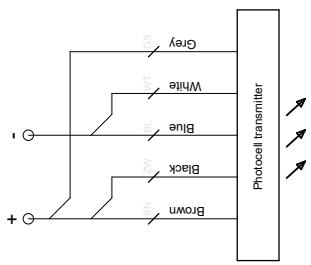
Notification Master	clamp description	Connection Feig	Terminal no.	Function
E.000	Open	X502	-	Open key foil keyboard
E.050	Stop	X502	-	Stop button foil keyboard
E.090	Closed	X502	-	Close key foil keyboard
E.101	IN1	52	X1A:124	Open ingoing
E.102	IN2	53	X1A:125	Open outgoing
-	-	-	-	Semi opening
E.104	IN4	72	-	Stop
-	-	-	-	Photocell receiver 1
E.106	IN6	82	X1A:143	Photocell receiver 2
-	-	-	-	Photocell receiver 3
E.108	IN8	61	X1A:106	Photocell receiver 4 wall
-	-	-	-	-
E.380	IN10	65	X1A:109	Safety edge open
E.360	Si-LEI	43	X1A:101	Safety edge close
-	-	-	-	-
-	-	-	-	-
E.113	IN13	Det3	X1A:119-120	Column side safety loop
E.114	IN14	Det4	X1A:121-122	Leaf side safety loop
E.121	IN21	331	X1A:151	Emergency open
E.122	IN22	334	X1A:152	Emergency close
E.123	IN23	341	-	Opening dead man's
E.124	IN24	361	-	Closing dead man's
E.125	IN25	362	-	Normal closing

Gray & White Control The Channel

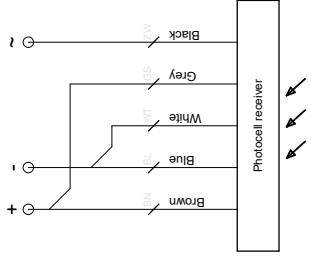
Setting: Channel 1



Setting: Channel 2

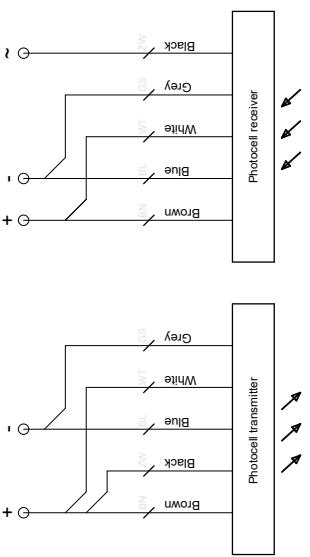


Seite 2

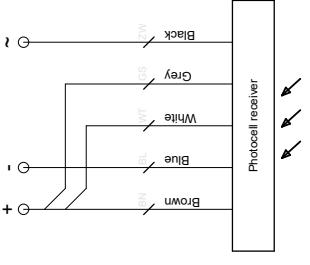


Setting: Channel 3

Setting: Channel 4



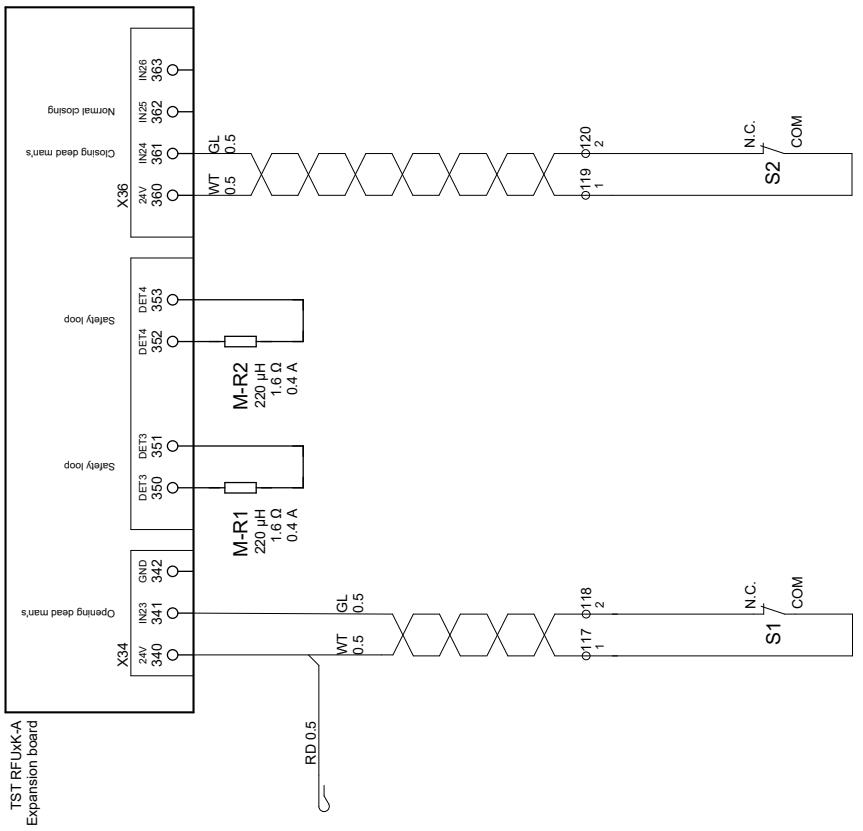
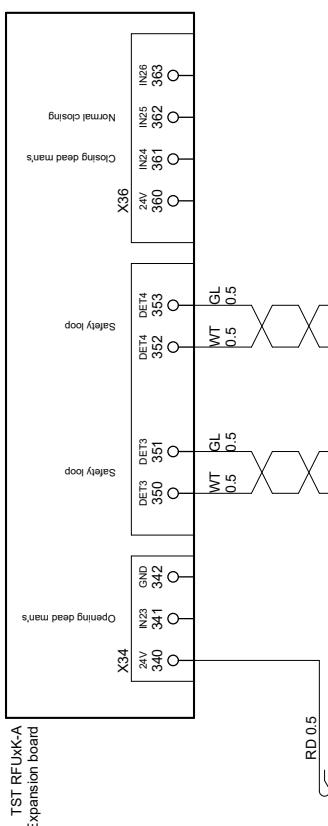
Setting: Channel 4



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Rev. date:	27-07-2022	Type:	Appendix sa	Project name	dr-unit diverse	Page title:	
Version no:	4.0	Language:	en EN	Group code	sgate unisa	Standalone	Appendix: B Connecting photocells configuration
Drawn by:	W.W.	Reviewed by:		Approved by:		Date:	

Appendix: C | Alternative without loops



Standard with safety loops



Page title:

Appendix: C | Alternative without loops

Alternative without safety loops

