

**MAGNETIC AUTOCONTROL GMBH**



Grienmatt 20, 79650 Schopfheim  
 Phone 07622 695-5, Fax 07622 695-800  
 E-Mail info@magnetic-germany.com  
 www.magnetic-access.com



Document number

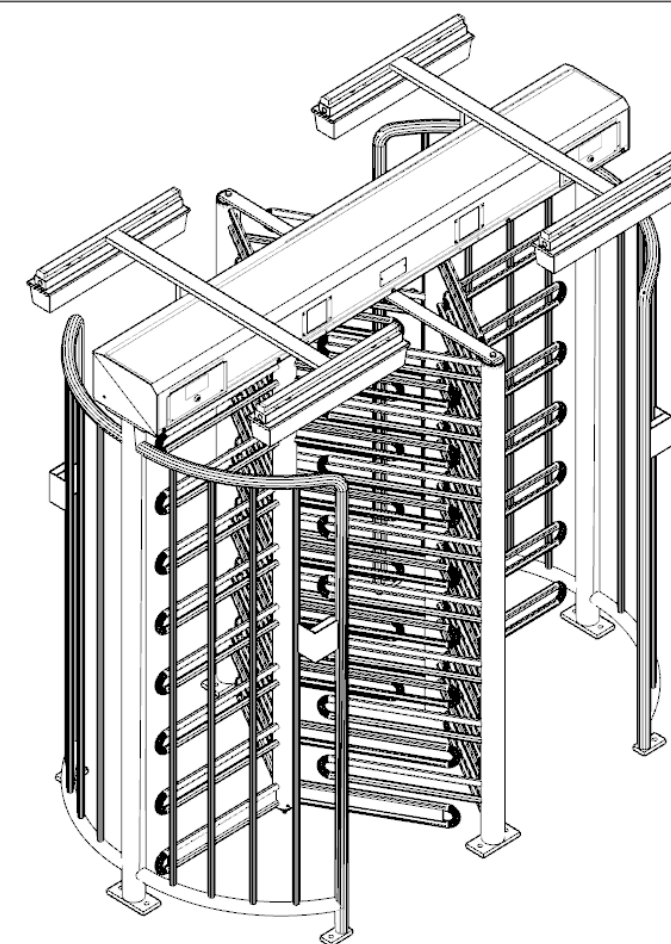
5527\_0010

Type

MPT-353  
 for Center column 3x120° and 4x90°

MPT dual lane with the options:

- GED
- Continuous lighting
- Lighting with twilight switch



Number of pages 19

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04	22.03.2021	TO	7E21535	Creator	TO
05	28.04.2021	TO	7E19623	Verifier	
Version	Date	Name	Modification project	Project no.	7K17511

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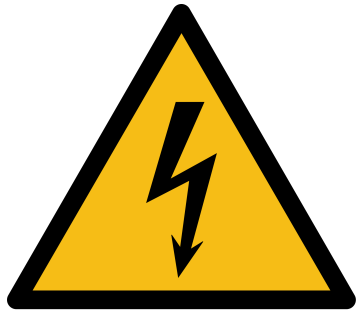


title page

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# GENERAL SAFETY NOTES

## GENERAL SAFETY NOTES



**Only electricians must carry out work on the electrical system.**

**Non-observance of the safety instructions causes severe injuries or death.**

**Touching live parts can be lethal. Damaged insulation or damaged parts may be fatal.**

The following safety instructions must be observed:

- If the insulation or any parts are damaged, switch off the power supply at once and initiate repair.
- Switch off the power supply before conducting any work on the electrical system, secure against reactivation and check that no voltage is pending!
- Never bridge any fuses or deactivate them. Observe correct current indications when replacing them.
- Moisture and dust must be kept away from live parts, ingressing moisture or dust may lead to short circuit.
- If the electrical connection is established at precipitation, e.g. rain or snow, penetration of moisture must be prevented by suitable measures, such as a protective cover.
- Electrical protective devices that are required according to nationally applicable provisions, such as residual-current device (RCD) / ground fault circuit interrupter (GFCI), must be provided and installed on site.
- All doors and covers must be kept closed during operation of the system.
- All instructions, warning and safety notes on the operating instructions for the system must be observed.
- All instructions, warning and safety notes on the integrated and attached accessories must be observed.
- If lightning strikes the system, there is danger to life when touching any components and when staying in the direct proximity.

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**MAGNETIC**  
ACCESS TO PROGRESS

safety instructions

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## Structure identifier overview

Structure identifier	Labeling	Structure description
&EAA	document type	Title page/cover sheet
&EAB	document type	Table of contents
&EDB	document type	Structure identifier
&ETL	document type	Overview / Layout
&EFA	document type	Schematic diagram
&EFS	document type	Schematic
&EPA	document type	Parts list
&EMA1	document type	Terminal line-up diagram
&EMA2	document type	Connection list
&EMB	document type	Cable diagram

+A1	Mounting location	MPT Unit left
+B1	Mounting location	Lighting with twilight switch left
+B2	Mounting location	Permanent light left
+C1	Mounting location	passage indicator left
+A2	Mounting location	MPT Unit right
+B3	Mounting location	Lighting with twilight switch right
+B4	Mounting location	Permanent light right
+C2	Mounting location	passage indicator right

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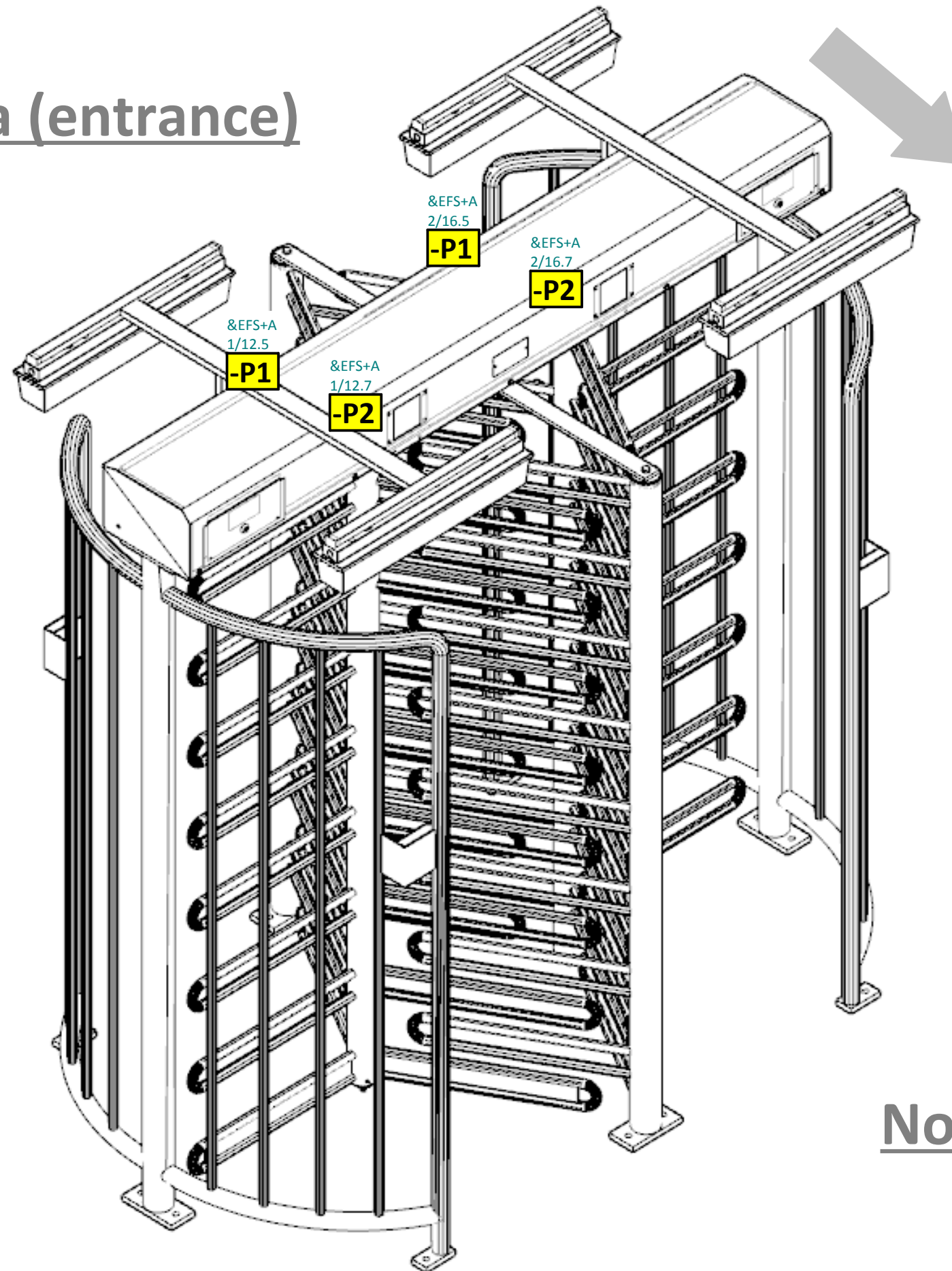
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Structure identifier

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# Public area (entrance)



**information:**  
 To protect against unauthorized access,  
 the top-cover should be removable only  
 on the exit side.  
 (Non-public area)

# Non-public area (exit)

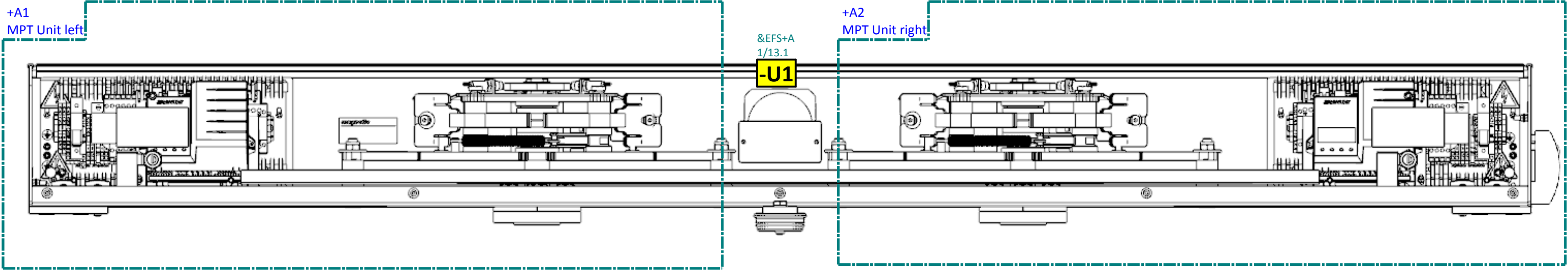
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System Overview

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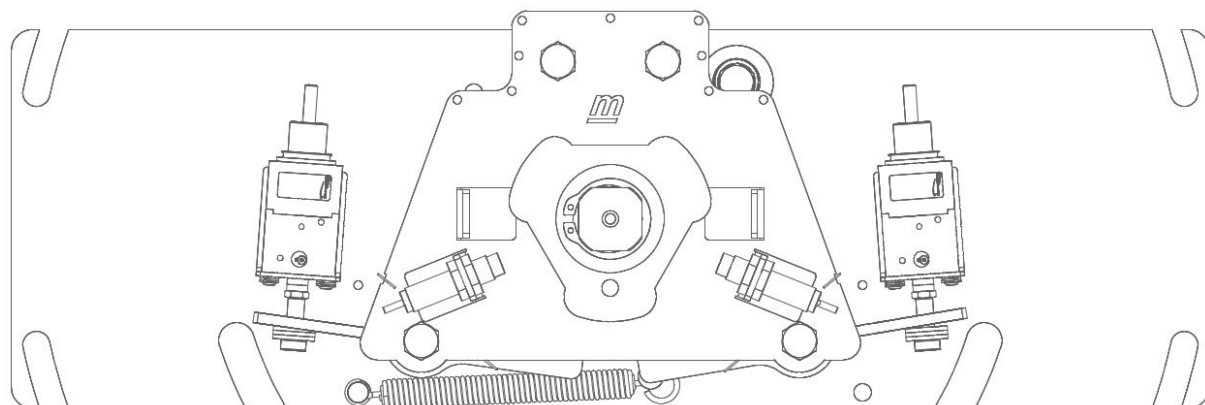


System Overview

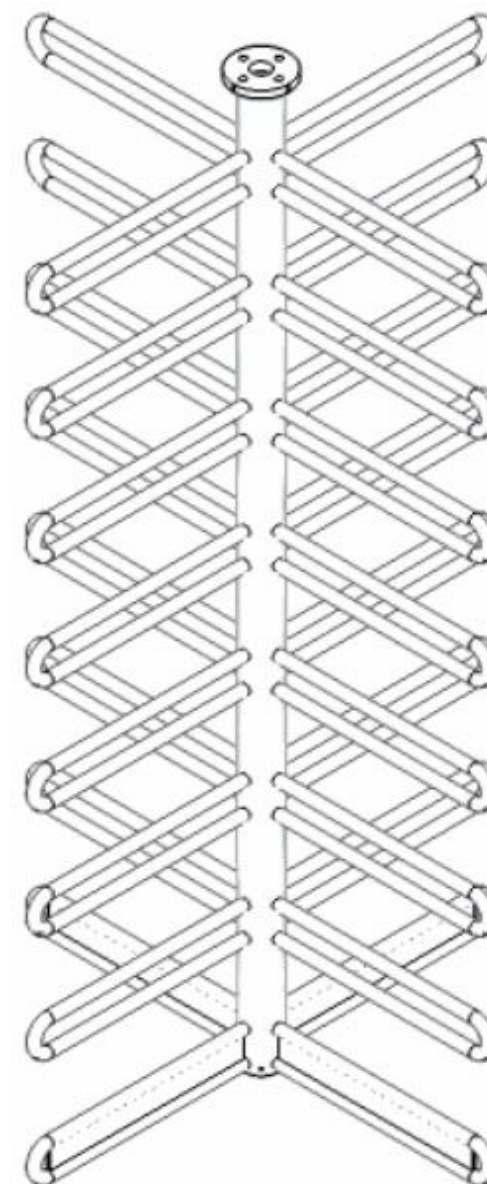
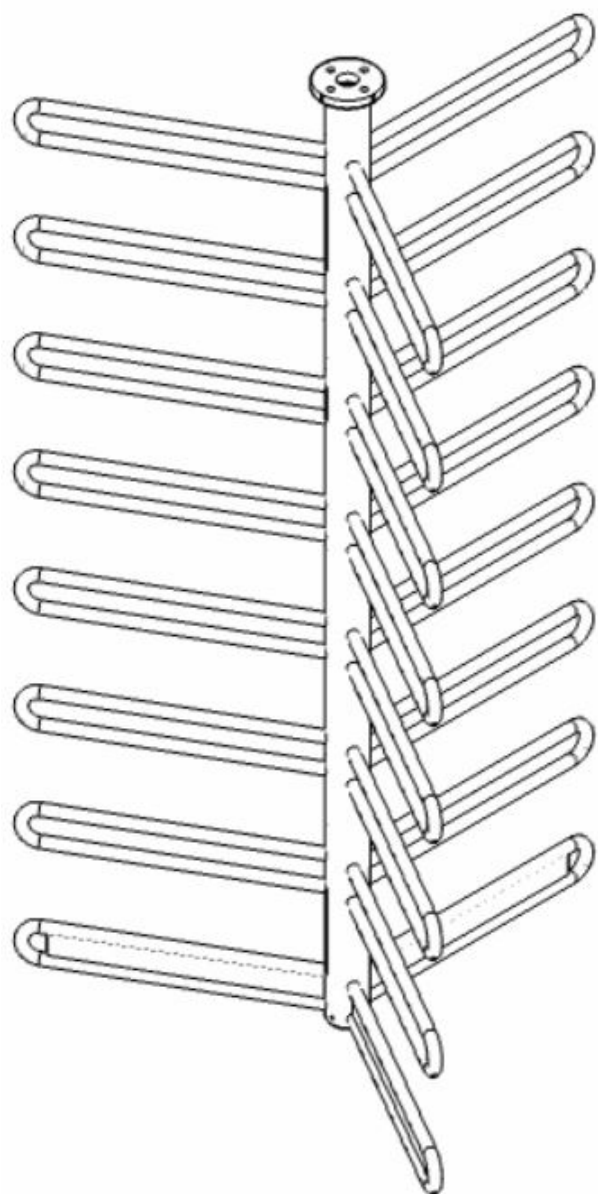
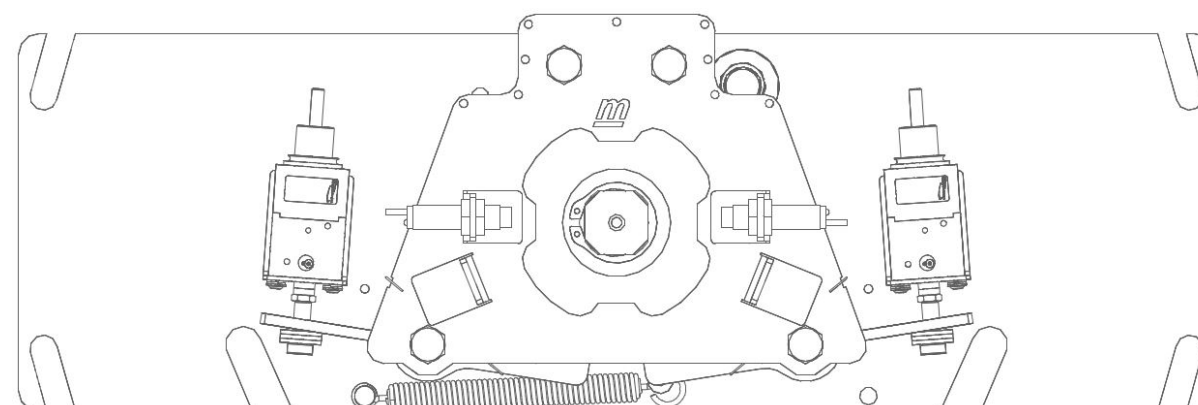
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Version Center column 3x120°



Version Center column 4x90°



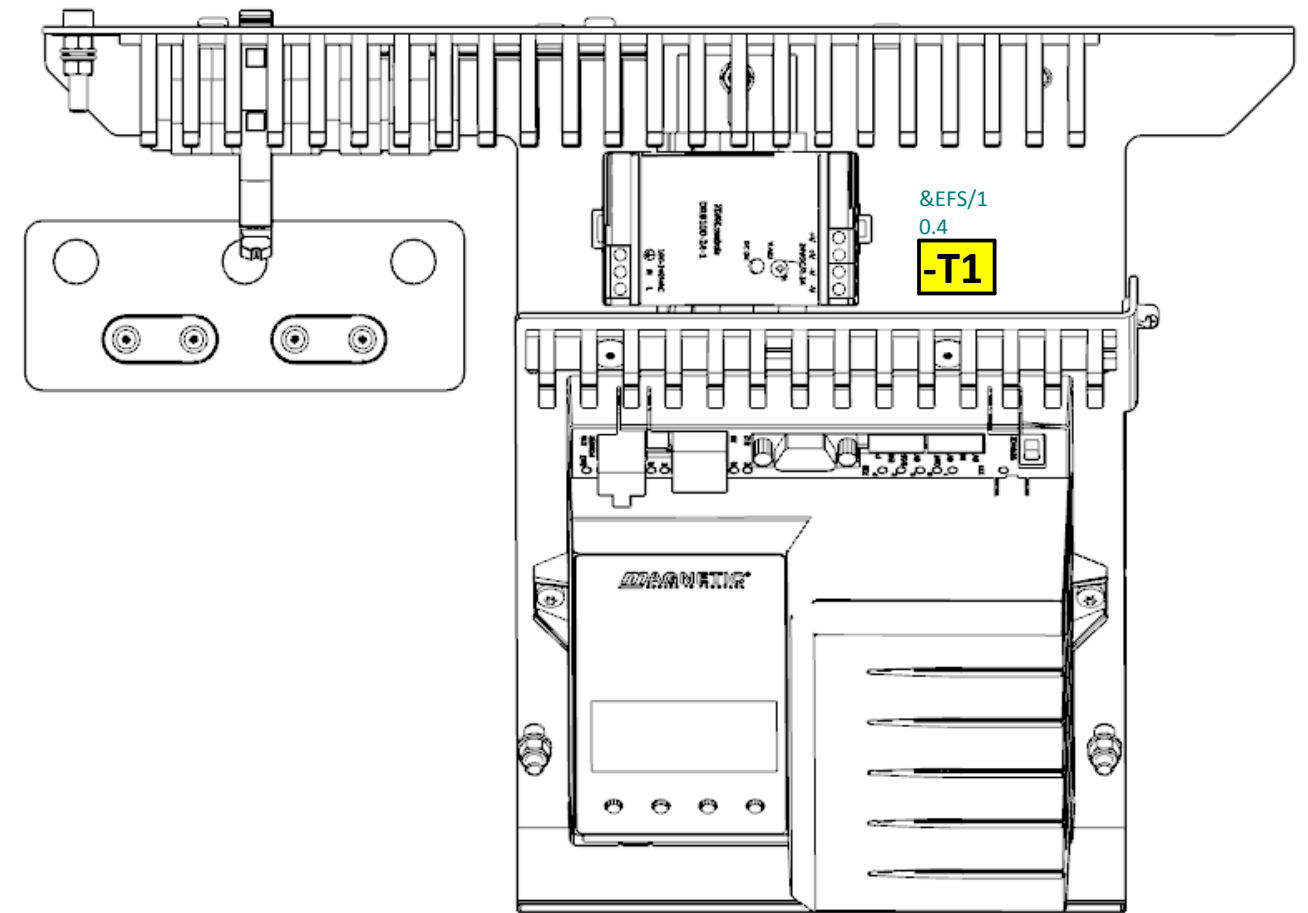
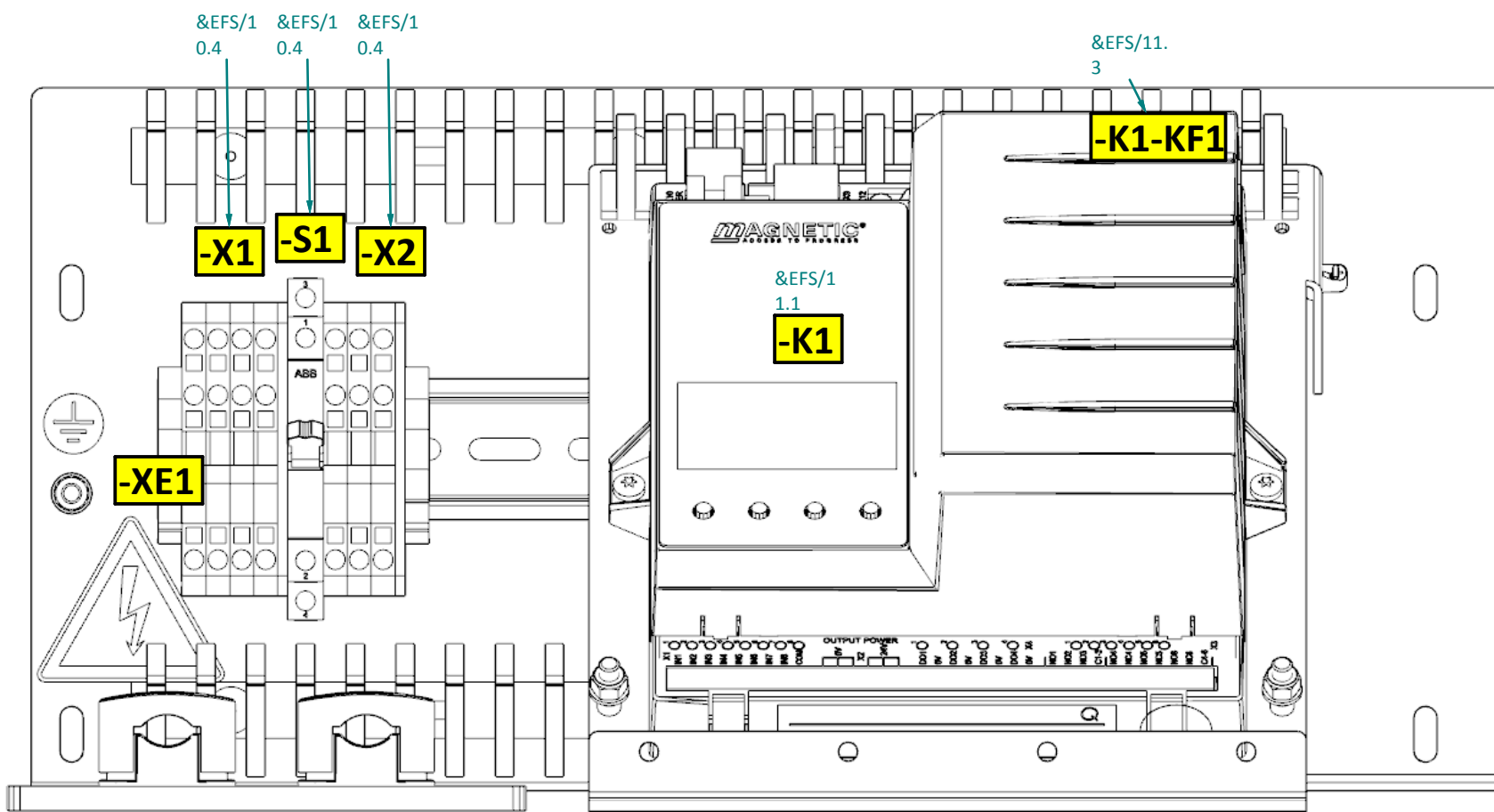
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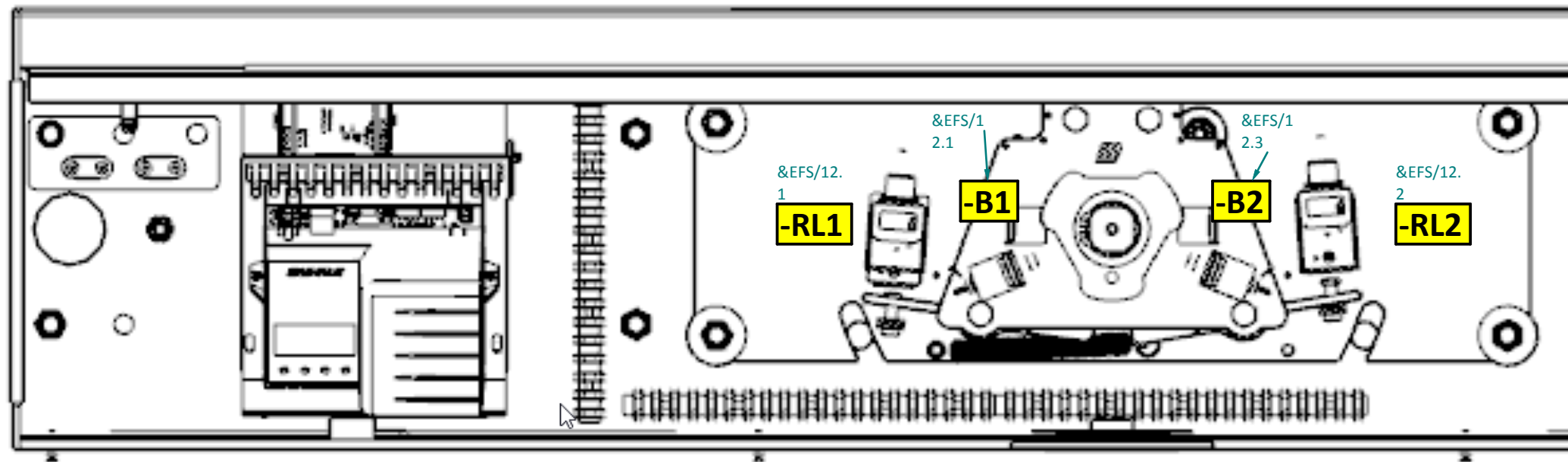


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Public area (entrance)



Non-public area (exit)

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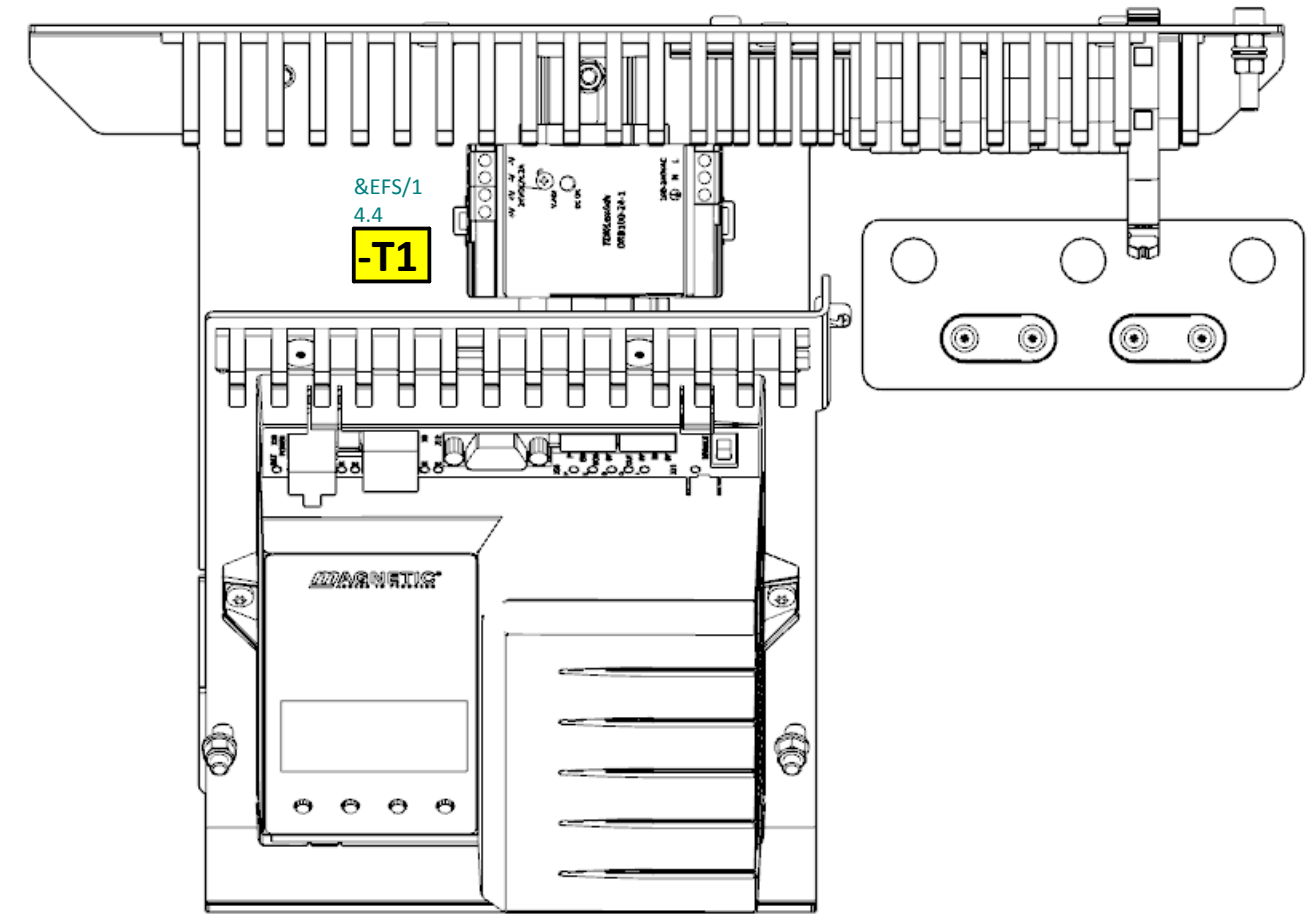
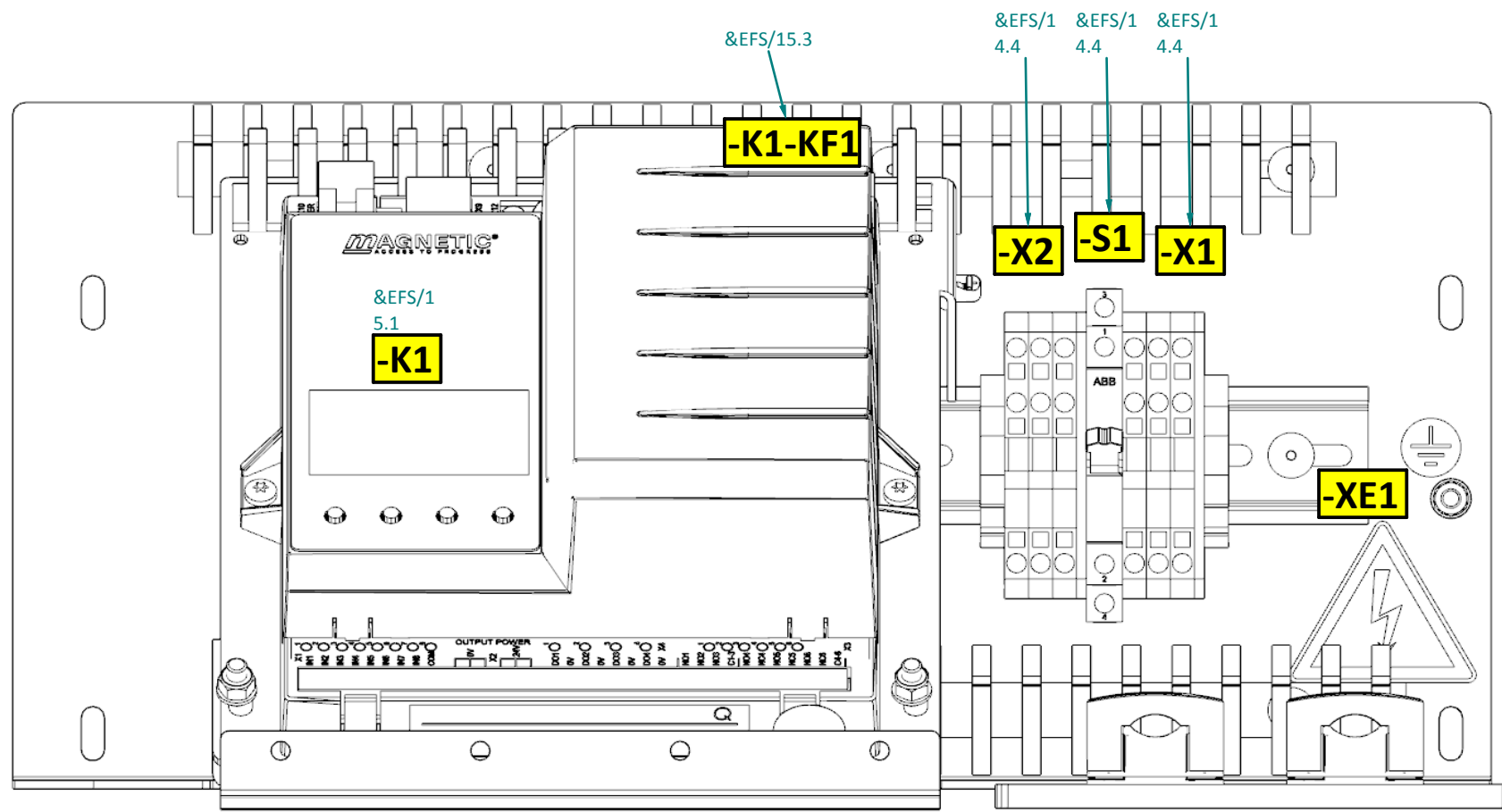
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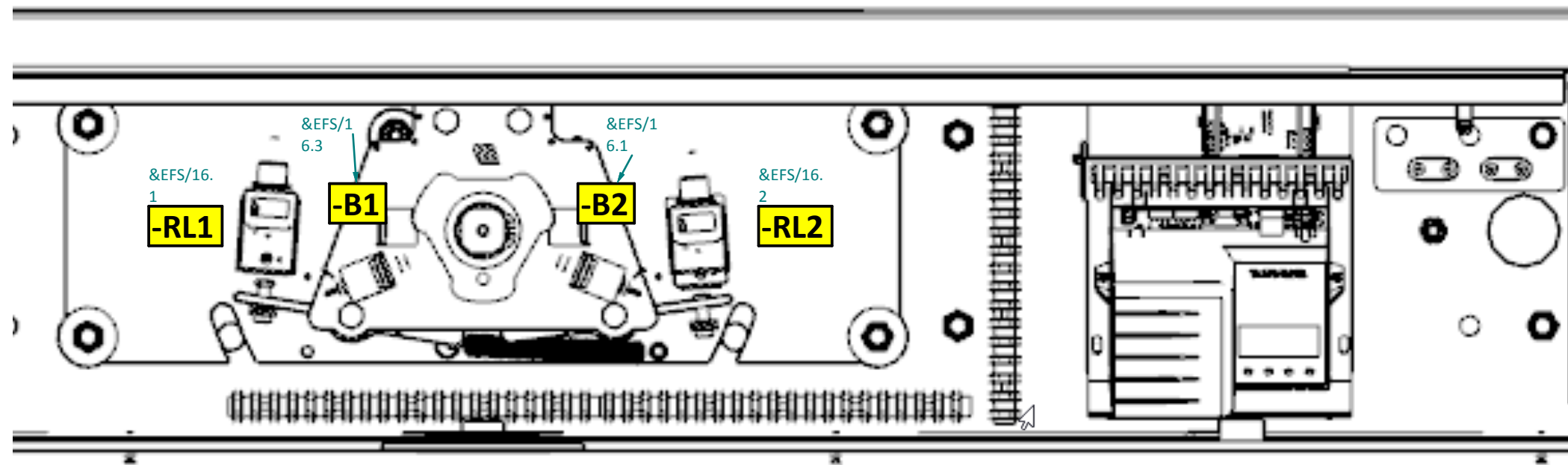
overview Unit left

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Public area (entrance)



Non-public area (exit)

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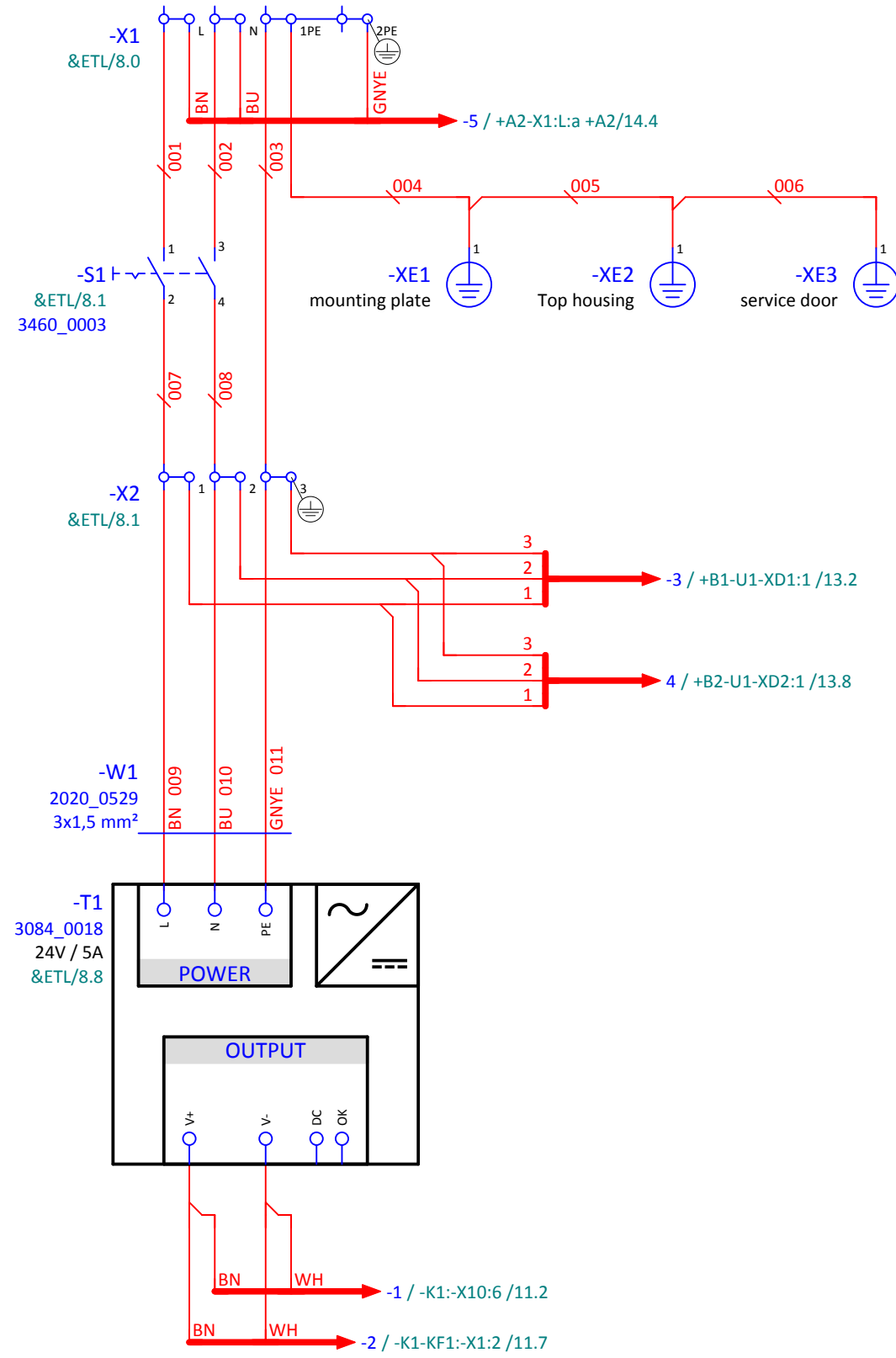
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overview Unit right

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# mains supply



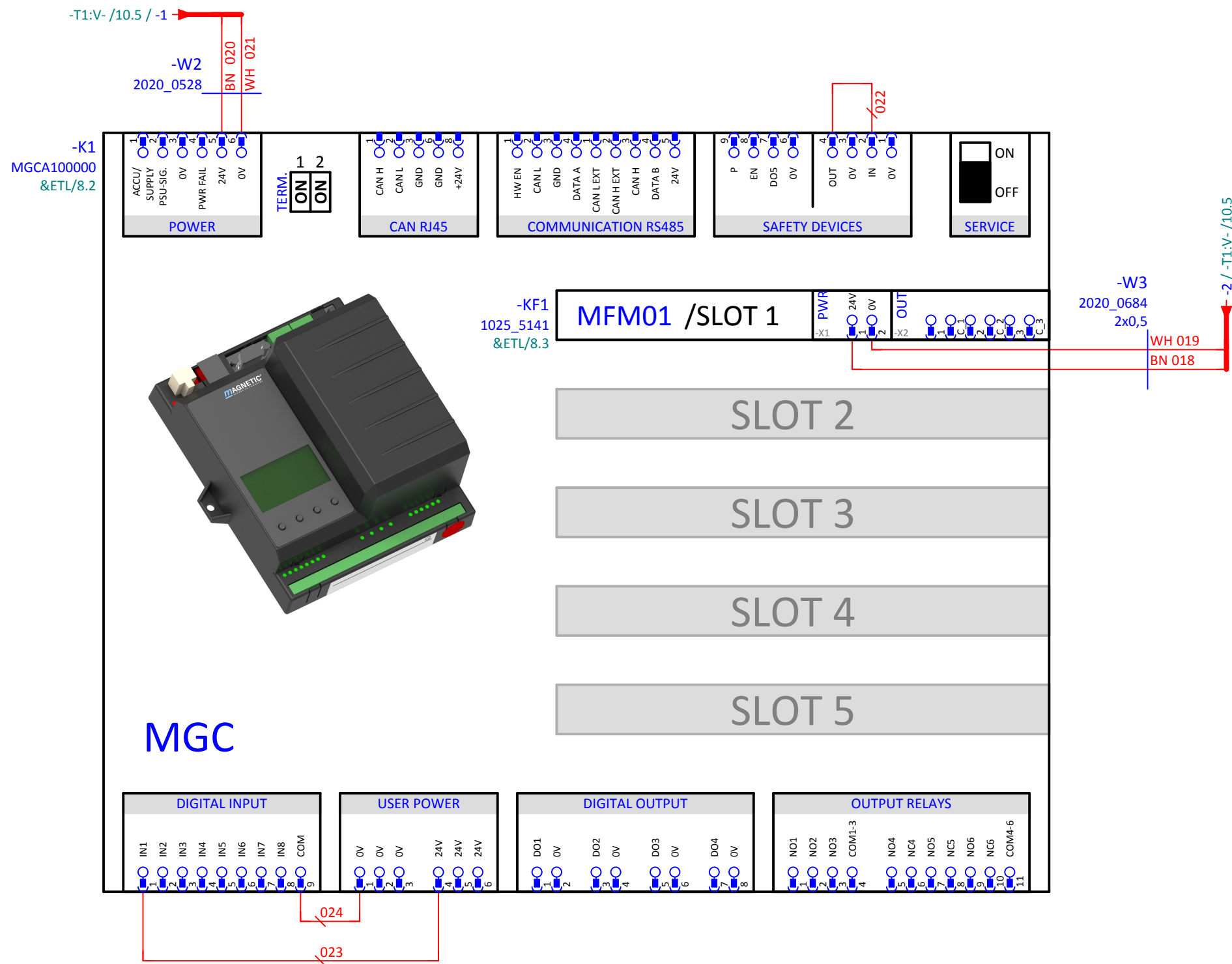
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mains supply

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Contact assignment MGC	
Contact	Functions / assignments
IN1	Emergency open
IN2	open on the entry side
IN3	open on the output side
IN4	random function
IN5	Confirm warnings
IN6	n.c.
IN7	Limit switch left
IN8	Limit switch right
DO1	GED red (entry)
DO2	GED green (entry)
DO3	GED red (exit)
DO4	GED green (exit)
NO1	passage pulse (entry)
NO2	passage pulse (exit)
NO3	n.c.
COM 1-3	Common Contact from Customer
NO4	passage free (entry)
NC4	passage free (entry)
NO5	passage free (exit)
NC5	passage free (exit)
NO6	Random hit
NC6	Random hit
COM 4-6	Common Contact from Customer
P	n.c.
EN	n.c.
DO5	n.c.
OV	n.c.
IN	n.c.
OUT	n.c.

Product-specific basic assignment, for products with MGC-Pro control unit the functions are freely parameterizable.

SLOT 1	
Locking	
OUT 1	Locking magnet left
OUT 2	Locking magnet right
OUT 3	n.c.

023 Connection is not required when the emergency opening contact is connected

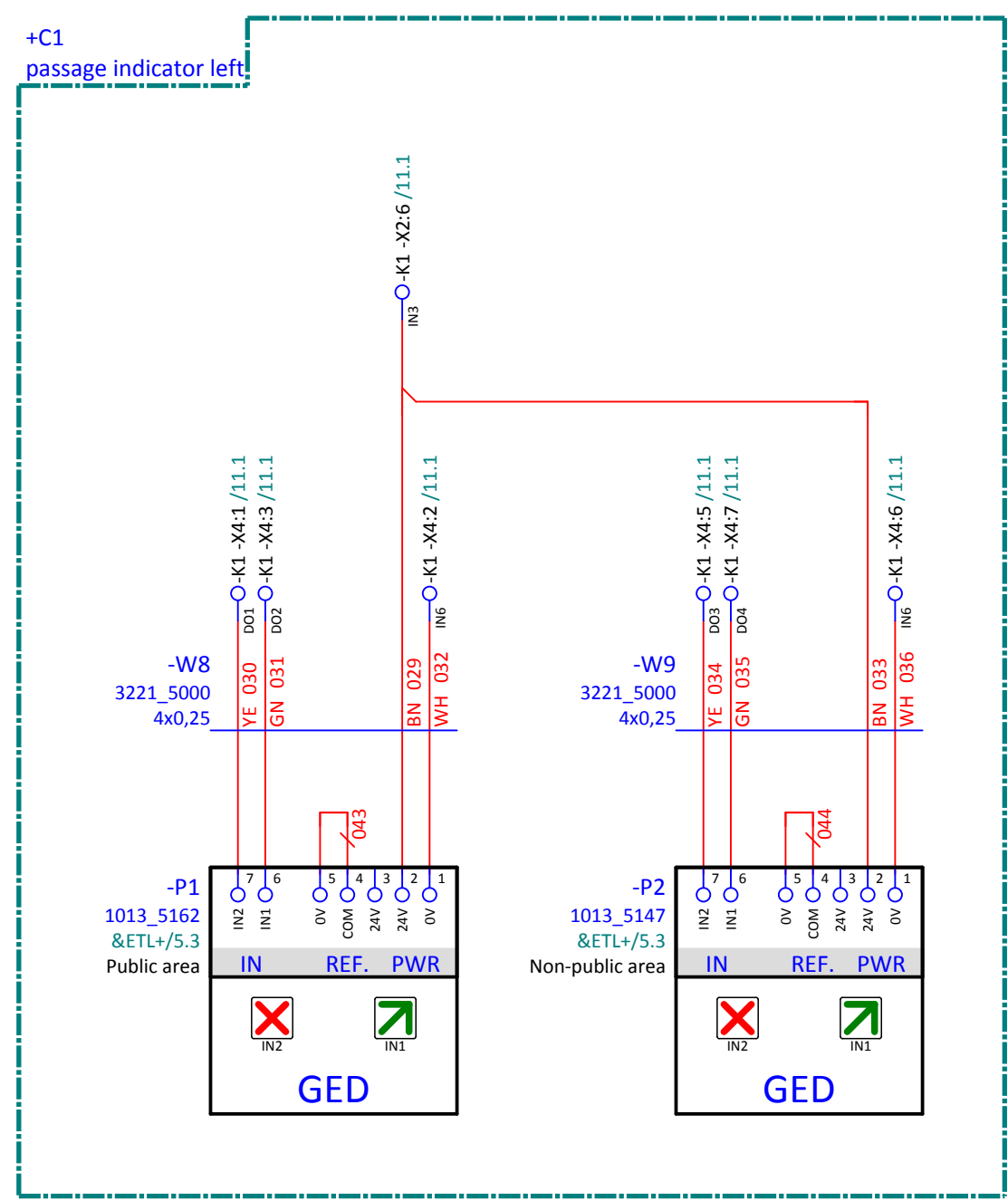
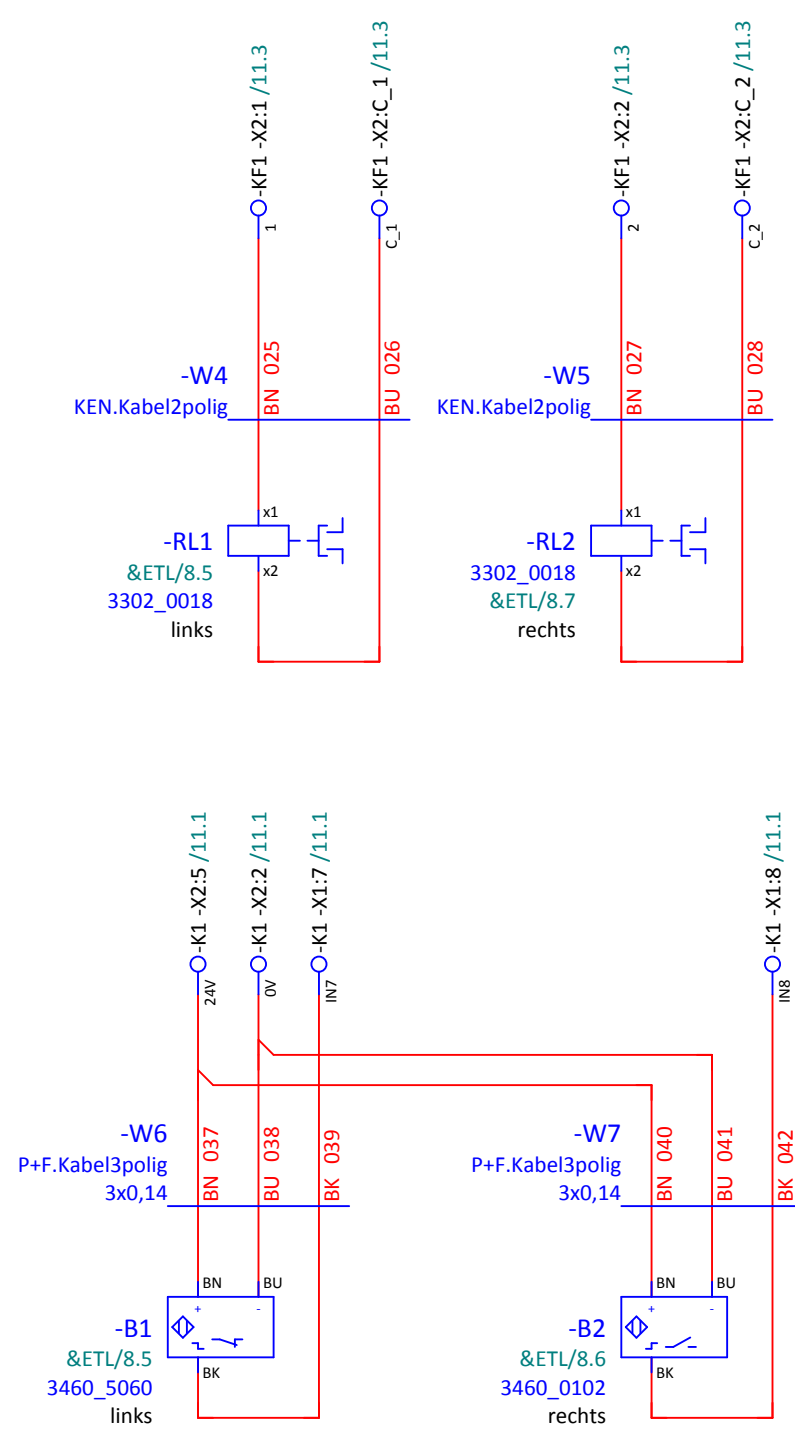
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controller

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options

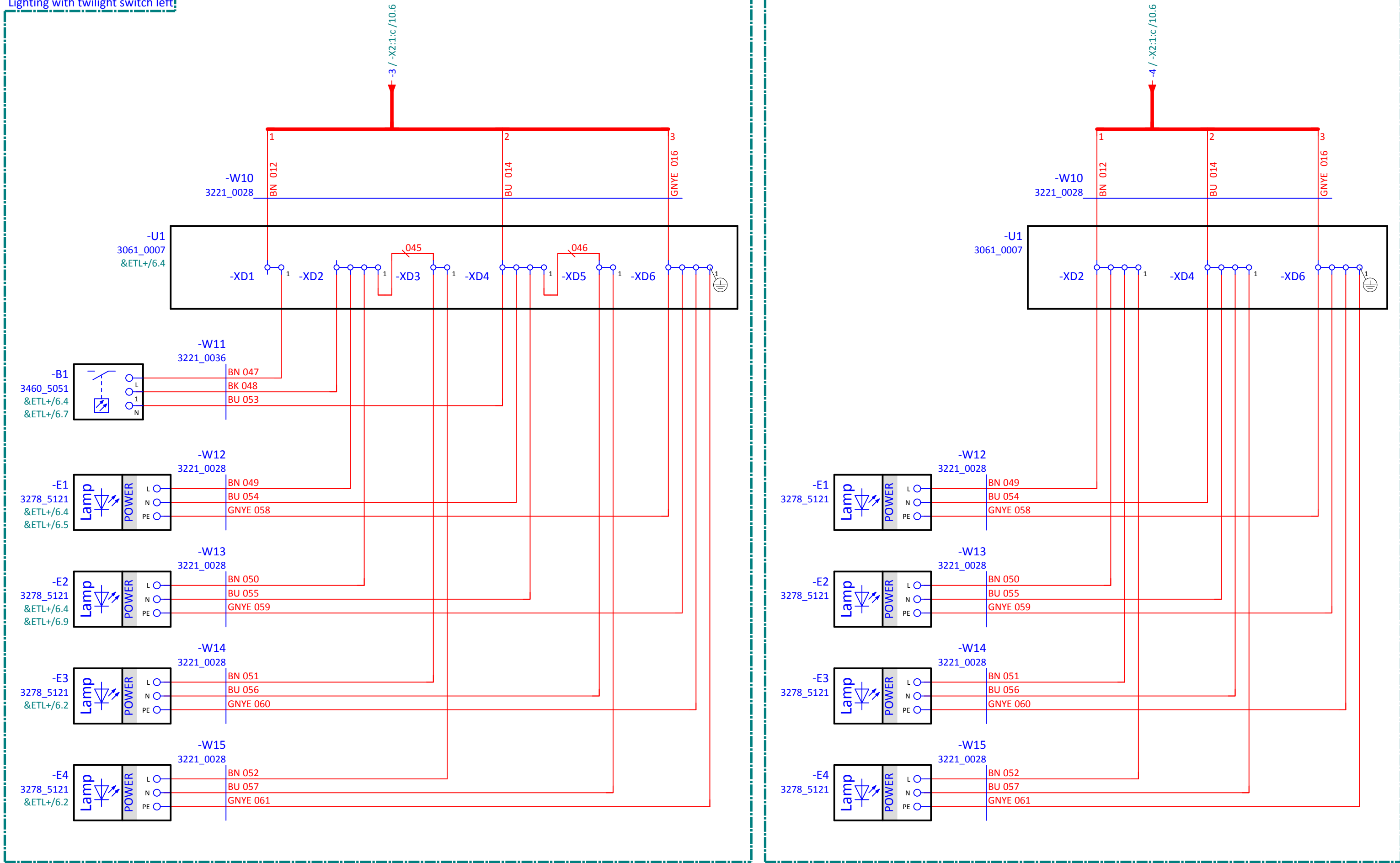
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+B1  
Lighting with twilight switch left

+B2  
Permanent light left

-3 / -X2:1:c/10.6

-4 / -X2:1:c/10.6



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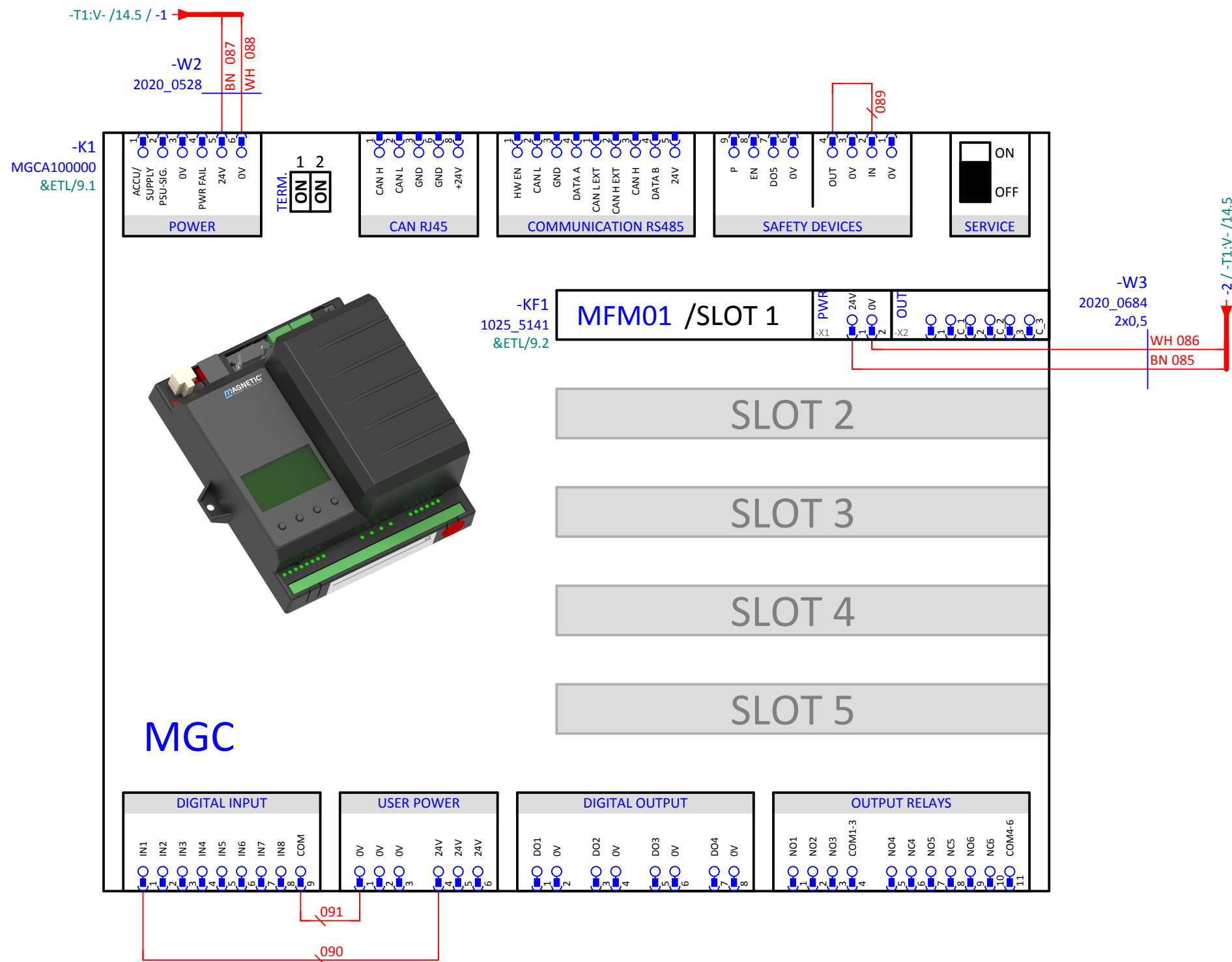


options

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Contact assignment MGC	
Contact	Functions / assignments
IN1	Emergency open
IN2	open on the entry side
IN3	open on the output side
IN4	random function
IN5	Confirm warnings
IN6	n.c.
IN7	Limit switch left
IN8	Limit switch right
DO1	GED red (entry)
DO2	GED green (entry)
DO3	GED red (exit)
DO4	GED green (exit)
NO1	passage pulse (entry)
NO2	passage pulse (exit)
NO3	n.c.
COM 1-3	Common Contact from Customer
NO4	passage free (entry)
NC4	passage free (entry)
NO5	passage free (exit)
NC5	passage free (exit)
NO6	Random hit
NC6	Random hit
COM 4-6	Common Contact from Customer
P	n.c.
EN	n.c.
DO5	n.c.
OV	n.c.
IN	n.c.
OUT	n.c.

Product-specific basic assignment, for products with MGC-Pro control unit the functions are freely parameterizable.

SLOT 1	Locking	
	OUT 1	Locking magnet left
	OUT 2	Locking magnet right
	OUT 3	n.c.

090 Connection is not required when the emergency opening contact is connected

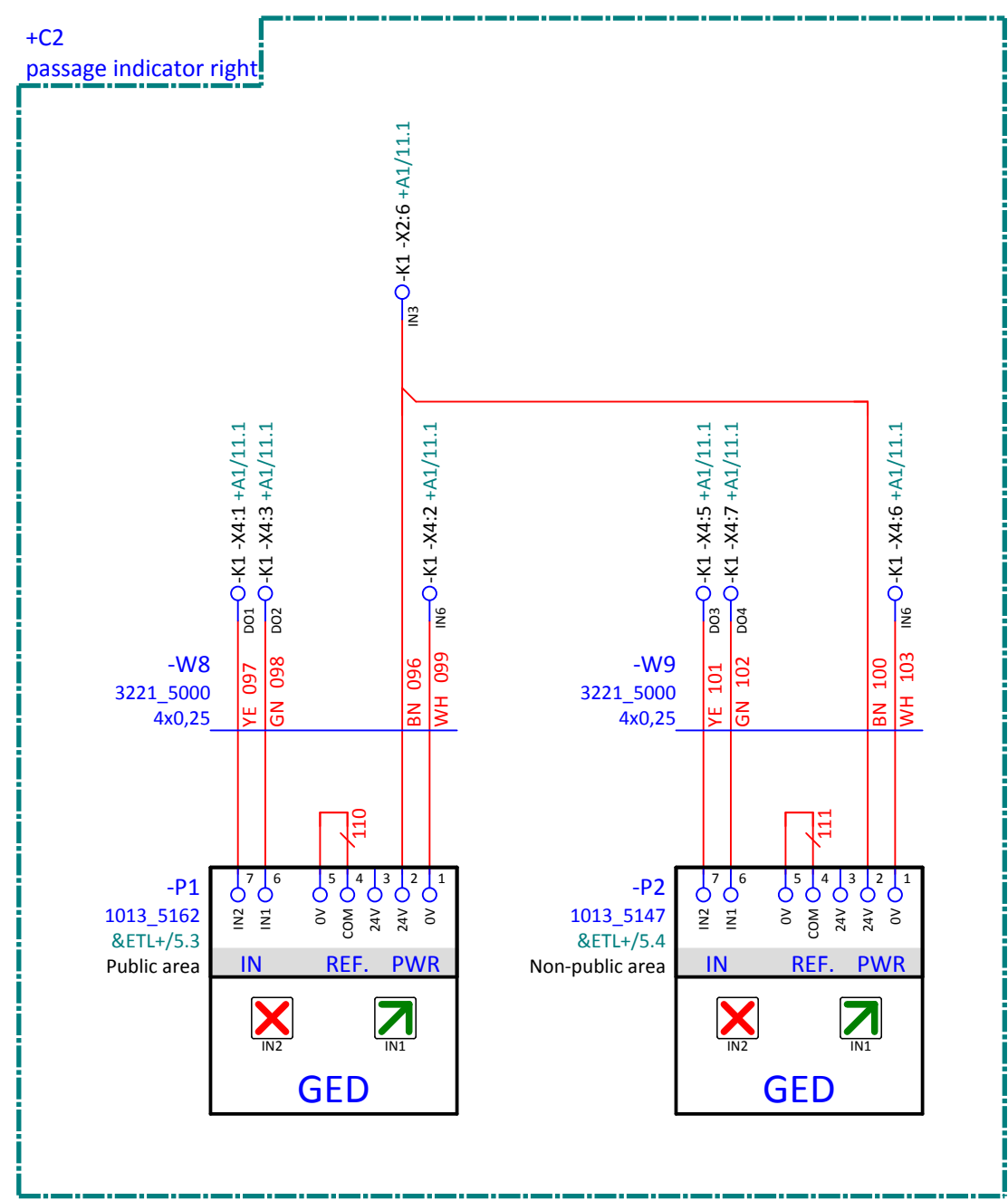
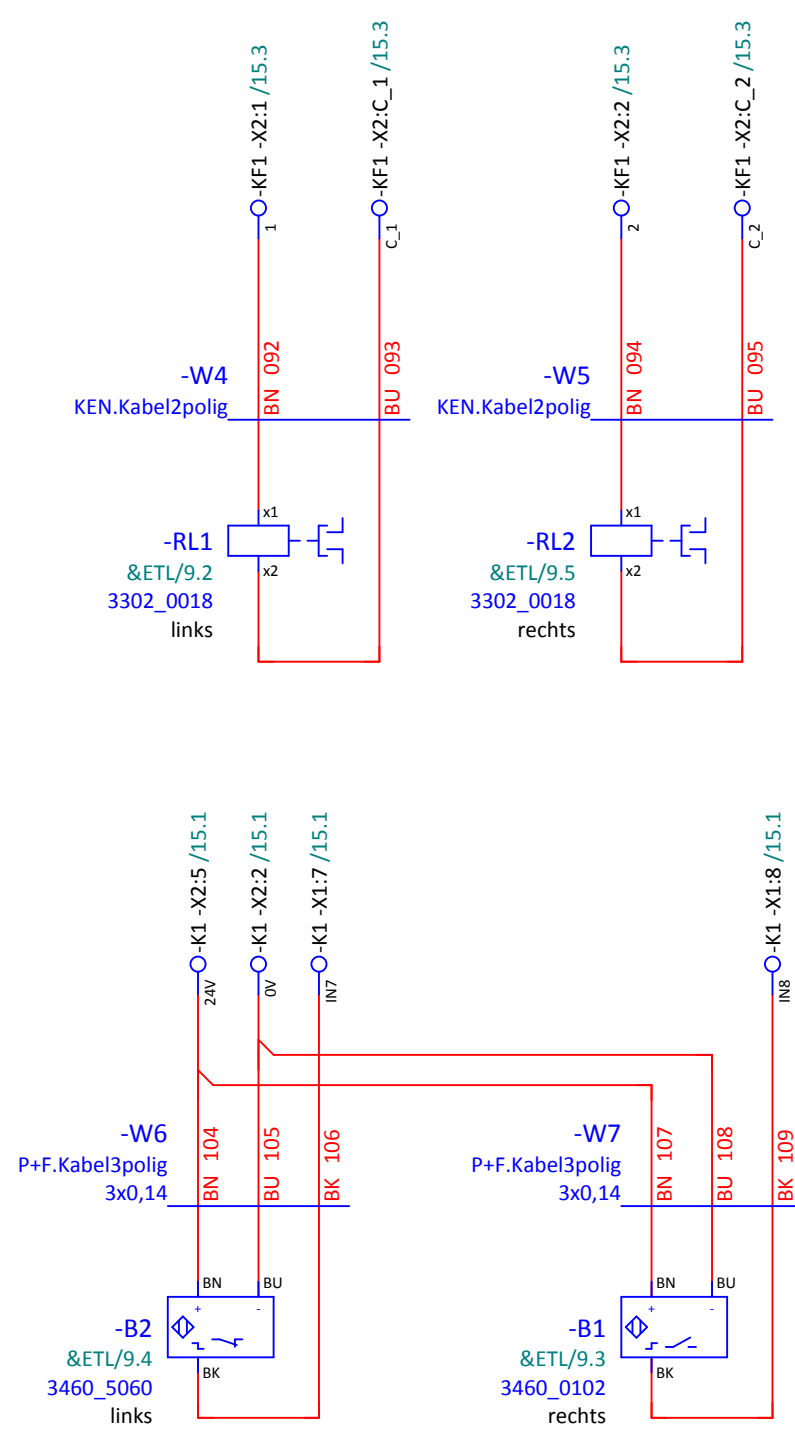
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controller

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options

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## Summarized parts list

Part number	Quantity	Designation	Device tag
<b>+A1 / +MPT Unit left</b>			
3460_5060	1	Proximity sensor, NC contact	-B1
3460_0102	1	Proximity switch (NO contact)	-B2
MGCA100000	1	MGC-A-100-0000	-K1
1025_5141	1	MOSFET Modul / MFM01	-K1-KF1
3302_0018	2	High performance single stroke solenoid with return spring	-RL1;-RL2
3460_0003	1	ABB Breaker 2-pole 400V 16A	-S1
3084_0018	1	power supply unit 24V,5A,120W	-T1
2020_0529	1	Cable 3G1,5mm <sup>2</sup>	-W1
2020_0528	1	Cable 2x0,5mm <sup>2</sup> , 400mm MGC supply	-W2
2020_0684	1	power cable for MFM01 350mm	-W3
KEN.Kabel2polig	2	Cable for solenoid MPT	-W4;-W5
P+F.Kabel3polig	2	Cable for Inductive limit switches	-W6;-W7
3219_0084	2	3-conductor terminal grey	-X1;-X2
3219_0088	2	end clamp	-X1;-X2
3219_0085	2	3-conductor terminal blue	-X1;-X2
3219_0083	3	3-wire grounded conductor terminal	-X1;-X2
3219_0086	2	End plate 3-pole; orange	-X1;-X2

<b>+B1 / +Lighting with twilight switch left</b>			
3460_5051	1	Twilight switch LUNA 128 star	-B1
3278_5121	4	LED moisture-proof light	-E1...-E4
3061_0007	1	Junction box 104x104x70 IP66	-U1
3219_5038	3	connection terminal 3 wire technology	-U1-XD1;-U1-XD3;-U1-XD5
3219_5036	3	connection terminal 5 wire technology	-U1-XD2;-U1-XD4;-U1-XD6
3221_0028	5	PVC control cable JB-500 3G1 mm <sup>2</sup> GR	-W10;-W12...-W15
3221_0036	1	PVC control cable JB-500 5G0.75 mm <sup>2</sup> GR	-W11

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Parts list

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## Summarized parts list

Part number	Quantity	Designation	Device tag
<b>+B2 / +Permanent light left</b>			
3278_5121	4	LED moisture-proof light	-E1...-E4
3061_0007	1	Junction box 104x104x70 IP66	-U1
3219_5036	3	connection terminal 5 wire technology	-U1-XD2;-U1-XD4;-U1-XD6
3221_0028	5	PVC control cable JB-500 3G1 mm² GR	-W10;-W12...-W15

<b>+C1 / +passage indicator left</b>			
1013_5162	1	GED top-cover MPT	-P1
1013_5147	1	GED Top housing MPT	-P2
3221_5000	2	Data- and computer cables TRONIC 4x0,25 mm² GY	-W8;-W9

<b>+A2 / +MPT Unit right</b>			
3460_0102	1	Proximity switch (NO contact)	-B1
3460_5060	1	Proximity sensor, NC contact	-B2
MGCA100000	1	MGC-A-100-0000	-K1
1025_5141	1	MOSFET Modul / MFM01	-K1-KF1
3302_0018	2	High performance single stroke solenoid with return spring	-RL1;-RL2
3460_0003	1	ABB Breaker 2-pole 400V 16A	-S1
3084_0018	1	power supply unit 24V,5A,120W	-T1
2020_0529	1	Cable 3G1,5mm²	-W1
2020_0528	1	Cable 2x0,5mm², 400mm MGC supply	-W2
2020_0684	1	power cable for MFM01 350mm	-W3
KEN.Kabel2polig	2	Cable for solenoid MPT	-W4;-W5
P+F.Kabel3polig	2	Cable for Inductive limit switches	-W6;-W7
3221_0094	1	Kabel 3G1,5mm² Ölflex Classic 100	-W20
3219_0084	2	3-conductor terminal grey	-X1;-X2
3219_0085	2	3-conductor terminal blue	-X1;-X2
3219_0083	2	3-wire grounded conductor terminal	-X1;-X2
3219_0086	2	End plate 3-pole; orange	-X1;-X2

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Parts list

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## Summarized parts list

Part number	Quantity	Designation	Device tag
<b>+A2 / +MPT Unit right</b>			
3219_0088	2	end clamp	-X1;-X2

<b>+C2 / +passage indicator right</b>			
1013_5162	1	GED top-cover MPT	-P1
1013_5147	1	GED Top housing MPT	-P2
3221_5000	2	Data- and computer cables TRONIC 4x0,25 mm <sup>2</sup> GY	-W8;-W9

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Parts list

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