

**MAGNETIC AUTOCONTROL GMBH**



Grienmatt 20, 79650 Schopfheim  
 Phone 07622 695-5, Fax 07622 695-800  
 E-Mail [info@magnetic-germany.com](mailto:info@magnetic-germany.com)  
[www.magnetic-access.com](http://www.magnetic-access.com)

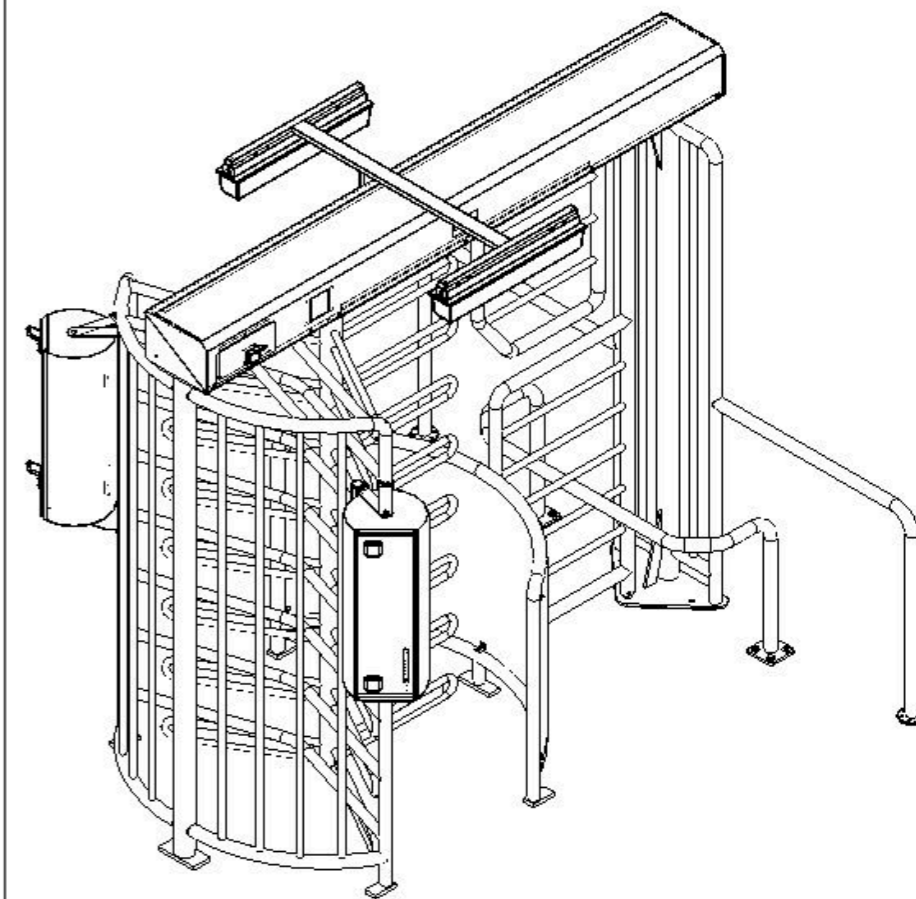


Document number

5527\_0092

Type

MPB 3xx with RIO44



Number of pages 31

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04	06.12.2023	TO	MEC37323	Creator	TO
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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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## 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

=A1	Function identifier	Supply
=B1	Function identifier	Control
=C1	Function identifier	Drive
=D1	Function identifier	Light
=E1	Function identifier	Lock
=F1	Function identifier	Monitor
=G1	Function identifier	Capture
=I1	Function identifier	Inform / visualize

+A1	Location identifier	mounting plate MGC
+B1	Location identifier	Locking Turnstile
+C	Location identifier	options
+C.1	Location identifier	lighting with twilight switch
+C.2	Location identifier	Permanent light
+C.3	Location identifier	Passage indicator
+C.4	Location identifier	push button
+C.4.1	Location identifier	Pushbutton Turnstile
+C.4.2	Location identifier	Pushbutton Revolving gate

Structure identifier	Labeling	Structure description
+C.5	Location identifier	Buzzer
+C.6	Location identifier	Laser scanner Revolving gate
+C.6.1	Location identifier	LSC Variant left
+C.6.2	Location identifier	LSC Variant right
+A2	Location identifier	mounting plate RIO
+A3	Location identifier	mounting plate MBC
+A4	Location identifier	mounting plate MMC
+B2	Location identifier	Drive + Locking Revolving gate
+Z	Location identifier	Connection cable

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Structure identifier

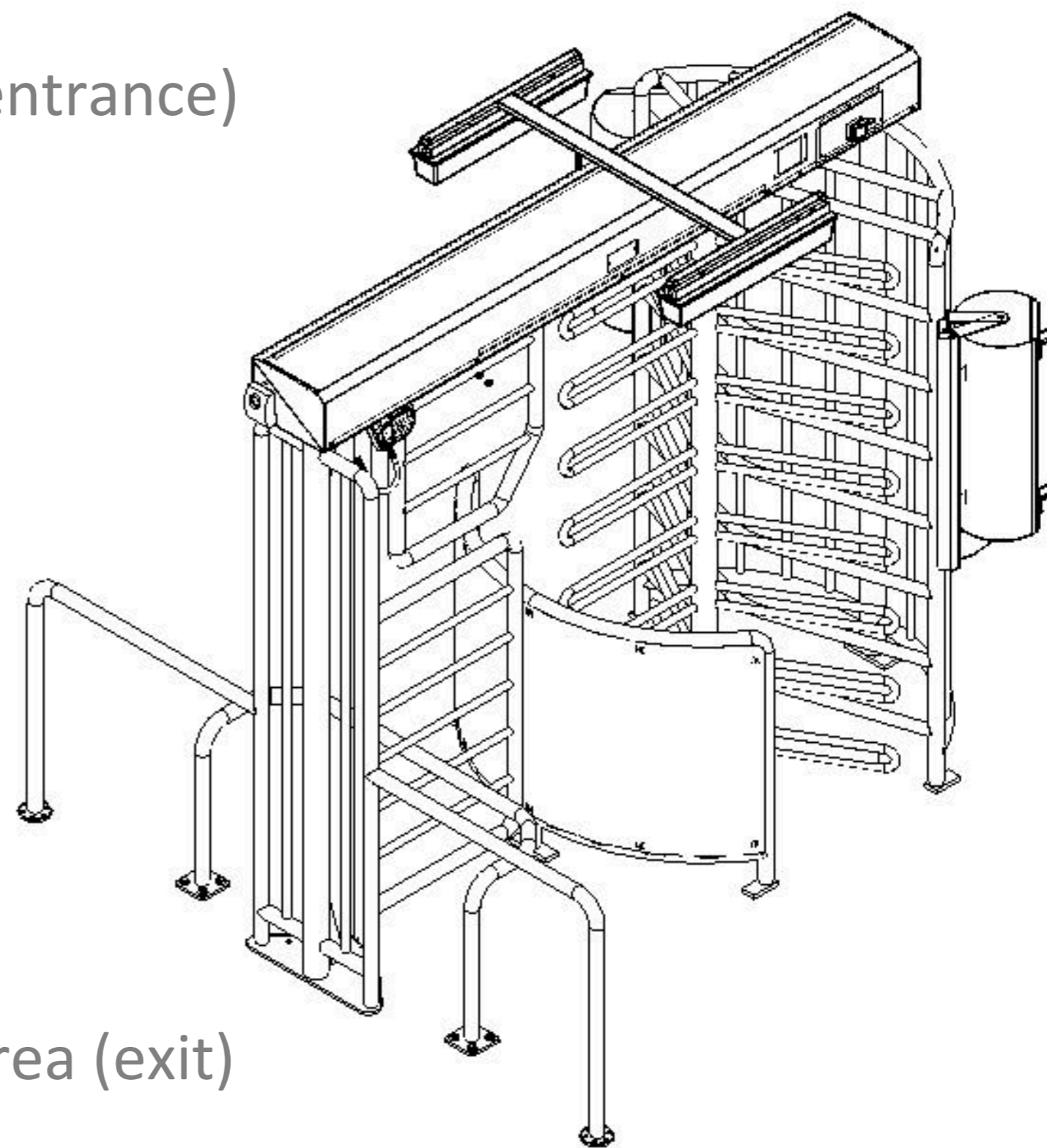
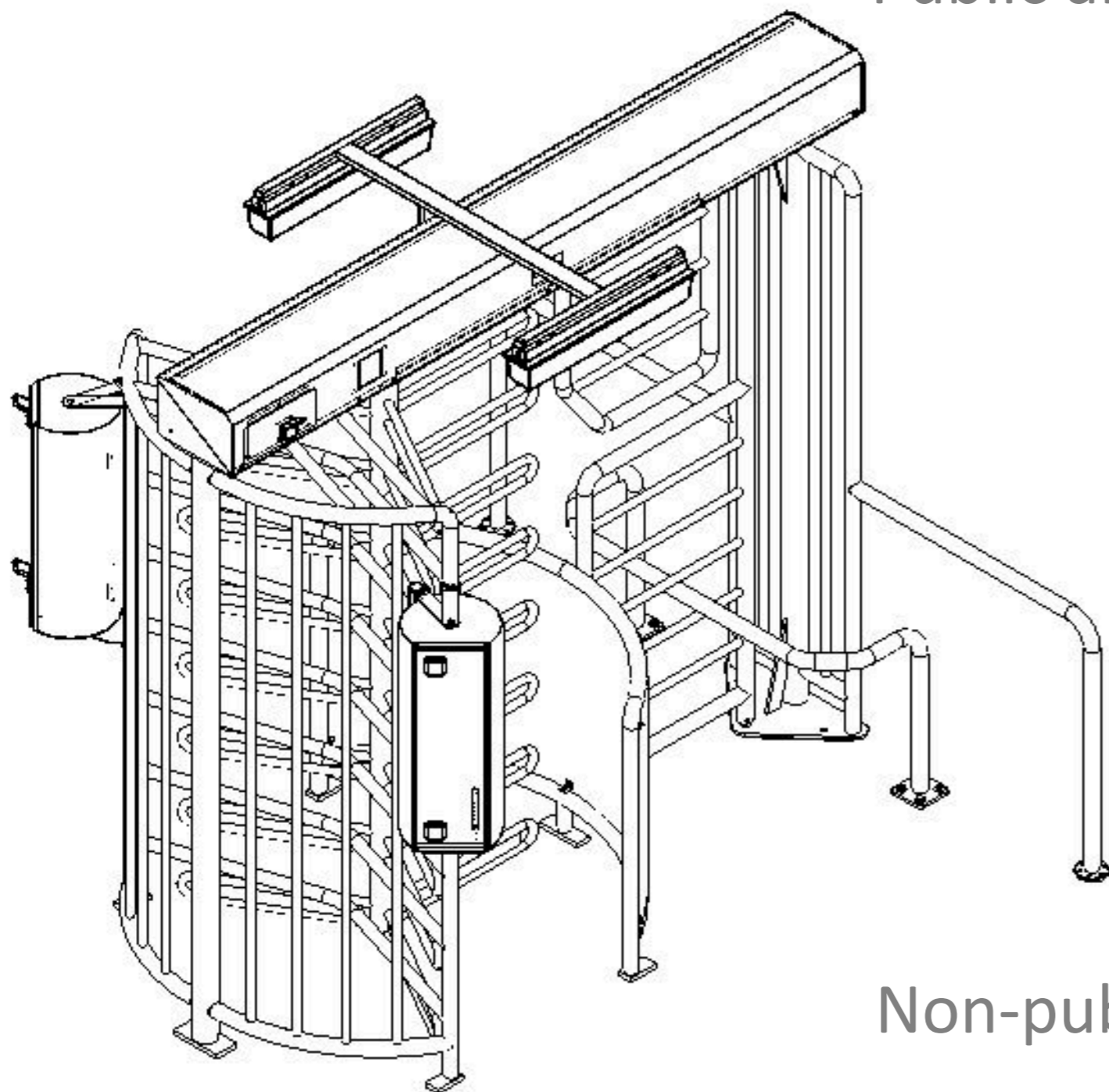
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# Variant left

# Variant right

Public area (entrance)



Non-public area (exit)

**information:**

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

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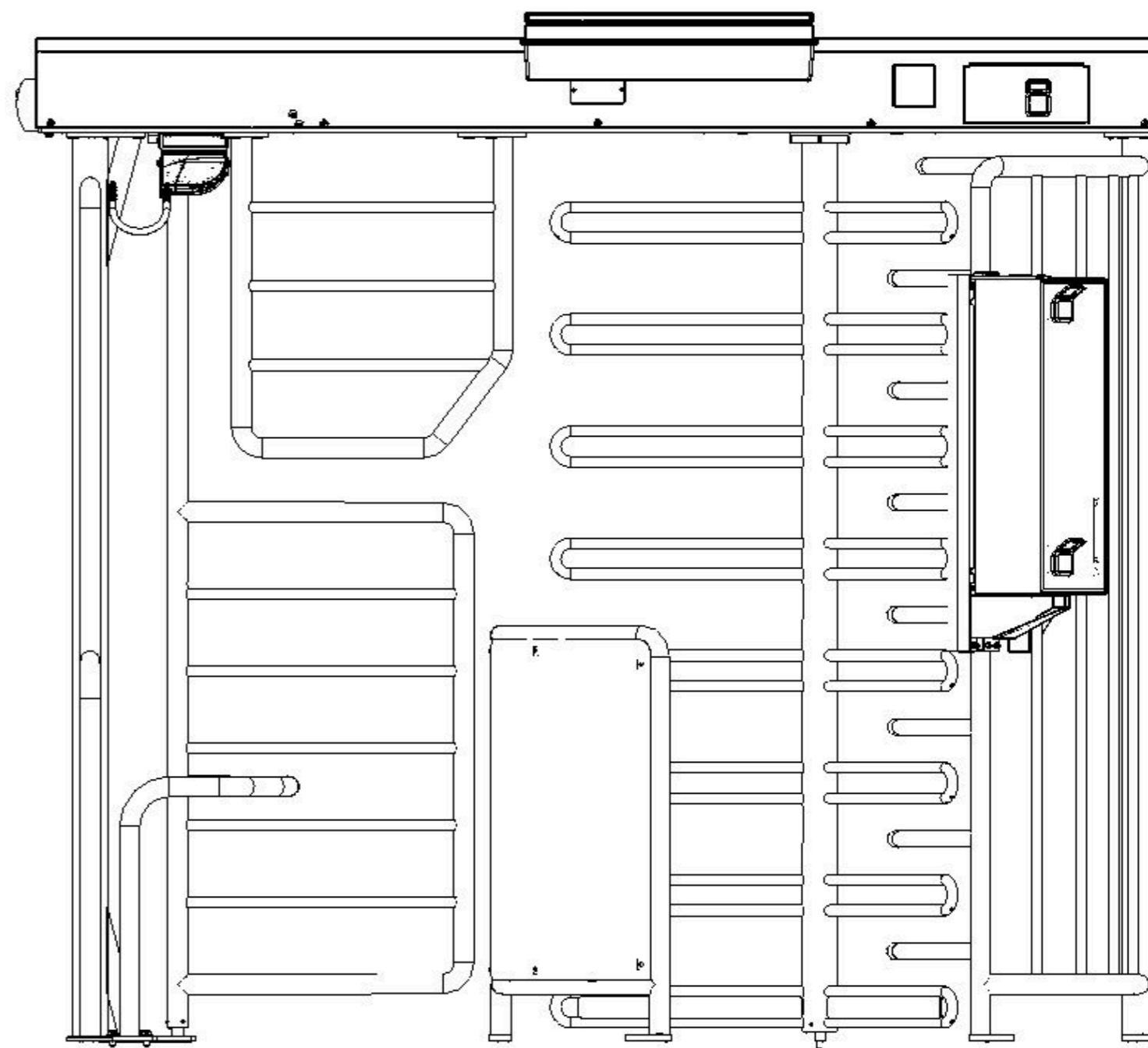
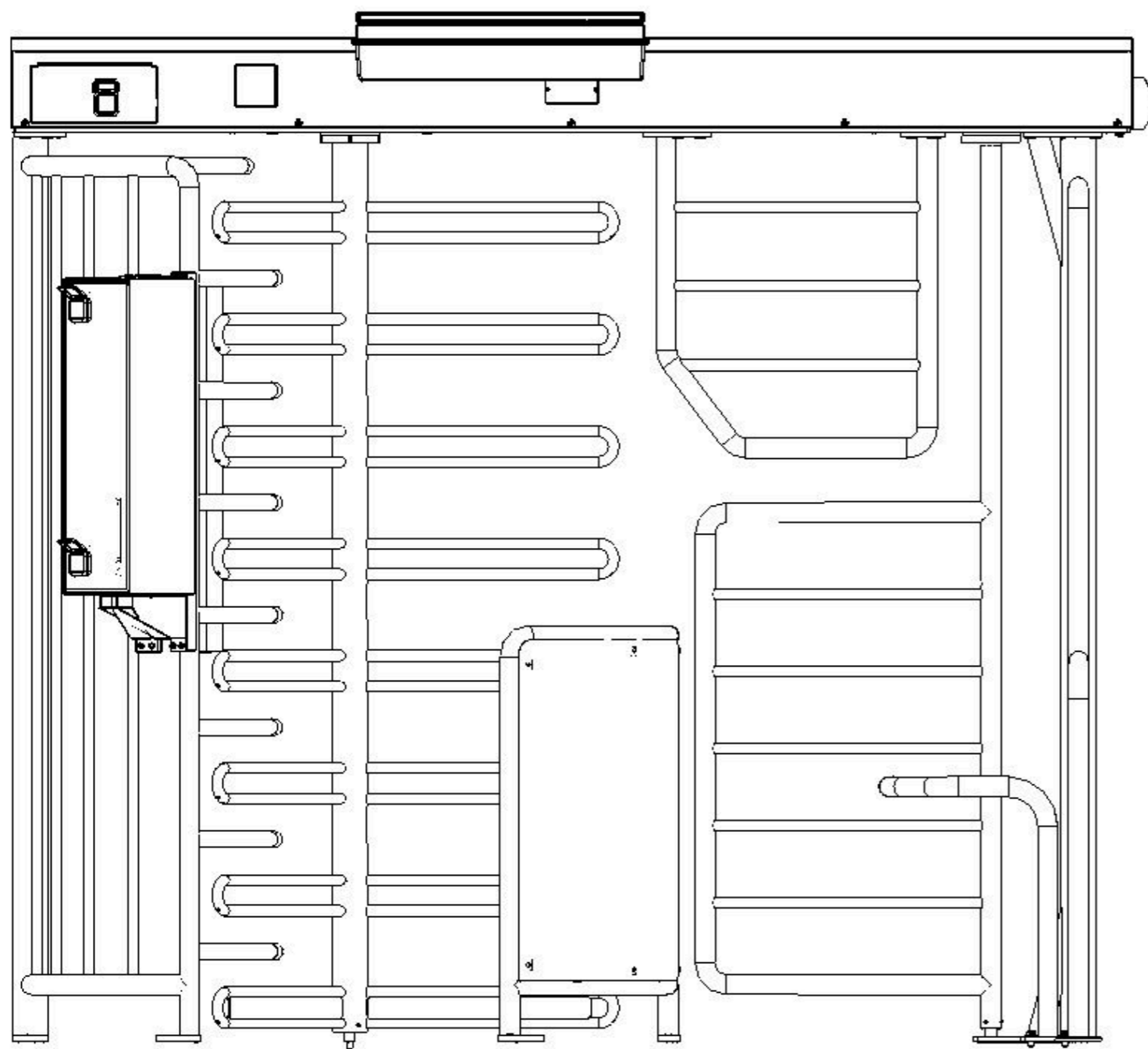
overview Versions

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# Variant left

# Variant right

## View of the exit side



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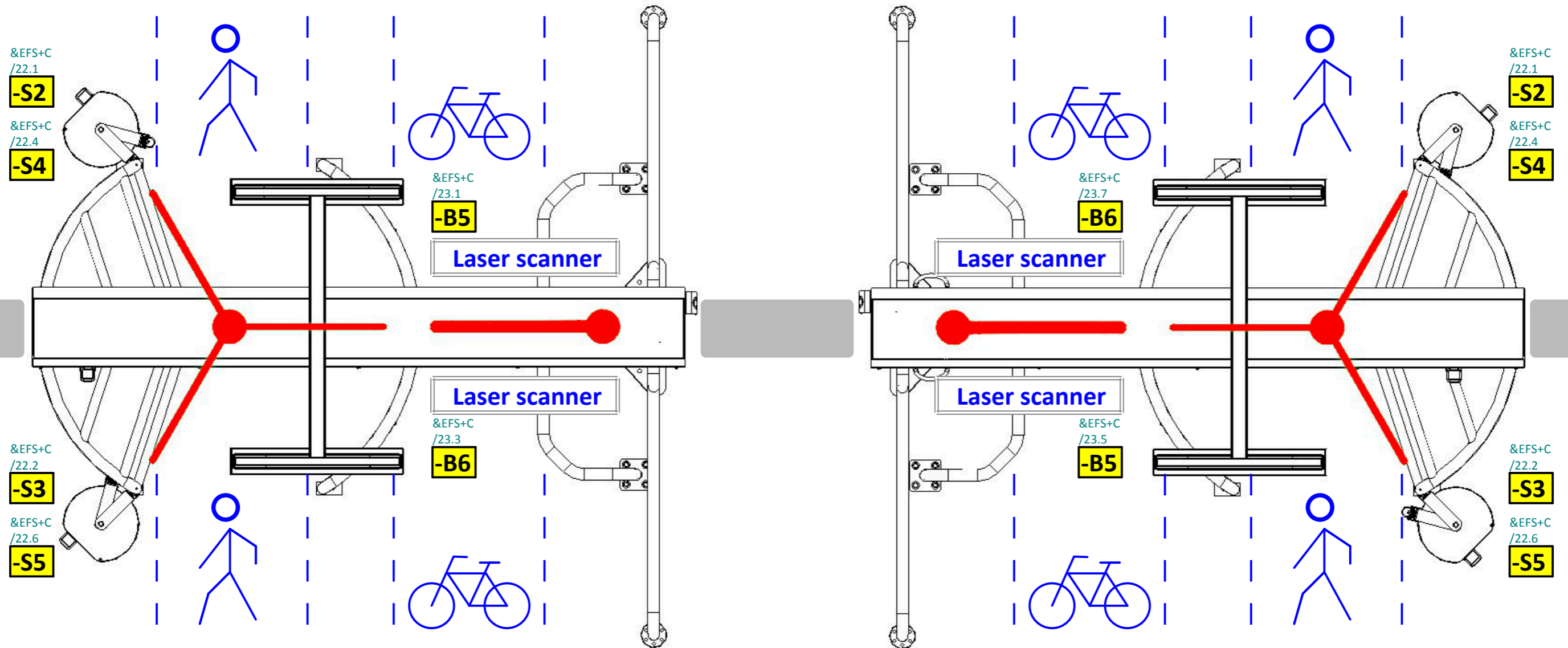
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# Variant left

# Variant right

## Public area (entrance)



## Non-public area (exit)

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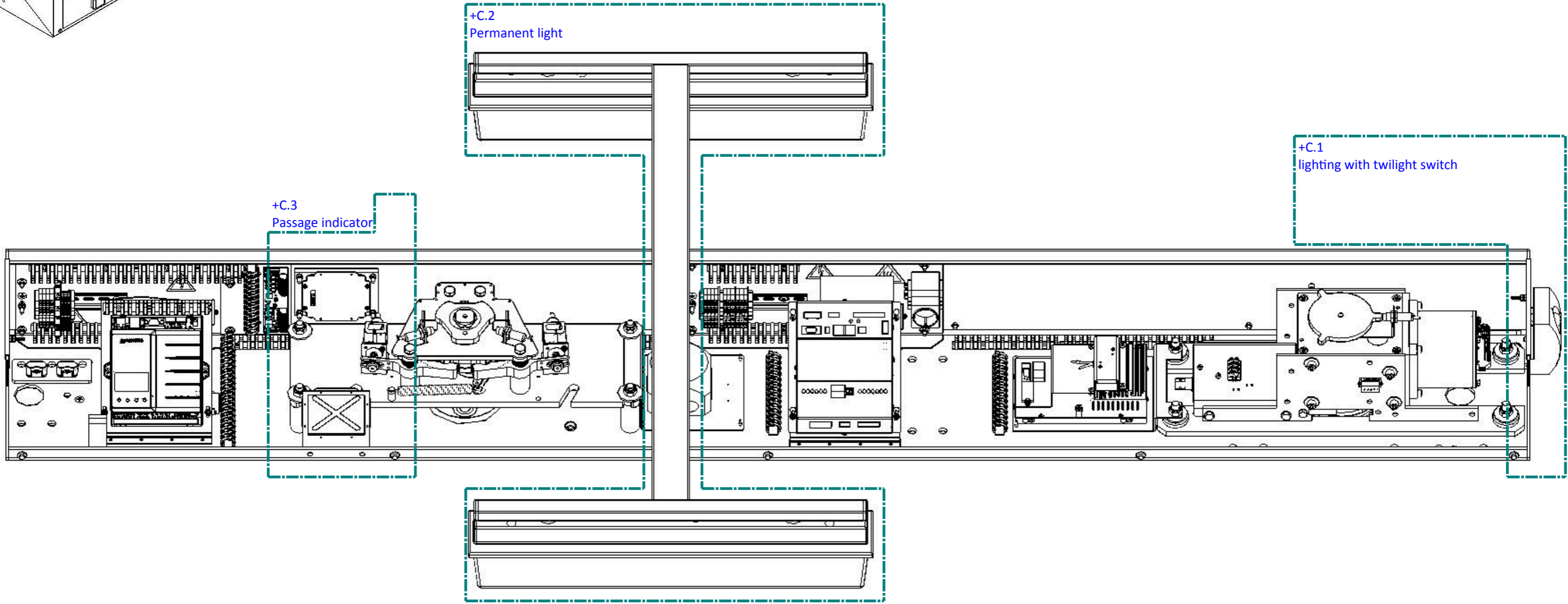
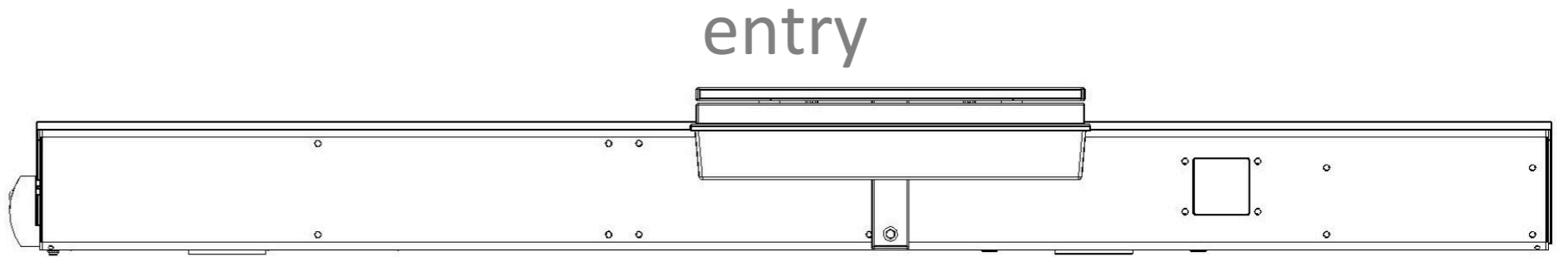
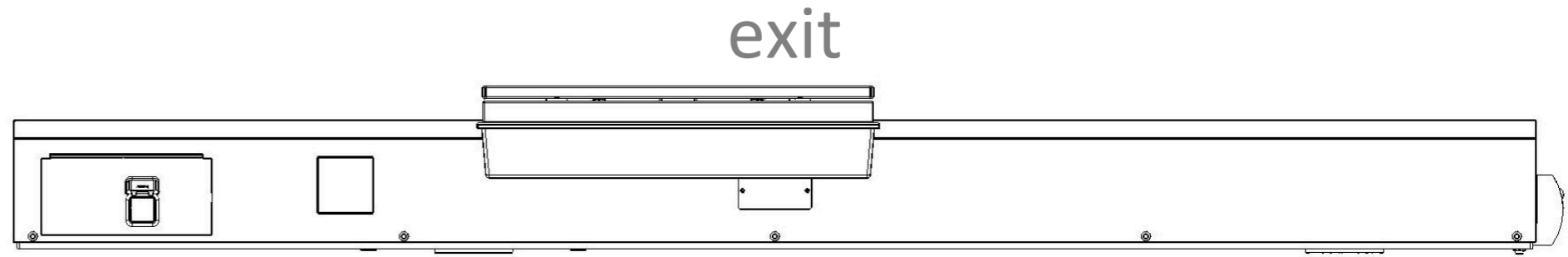
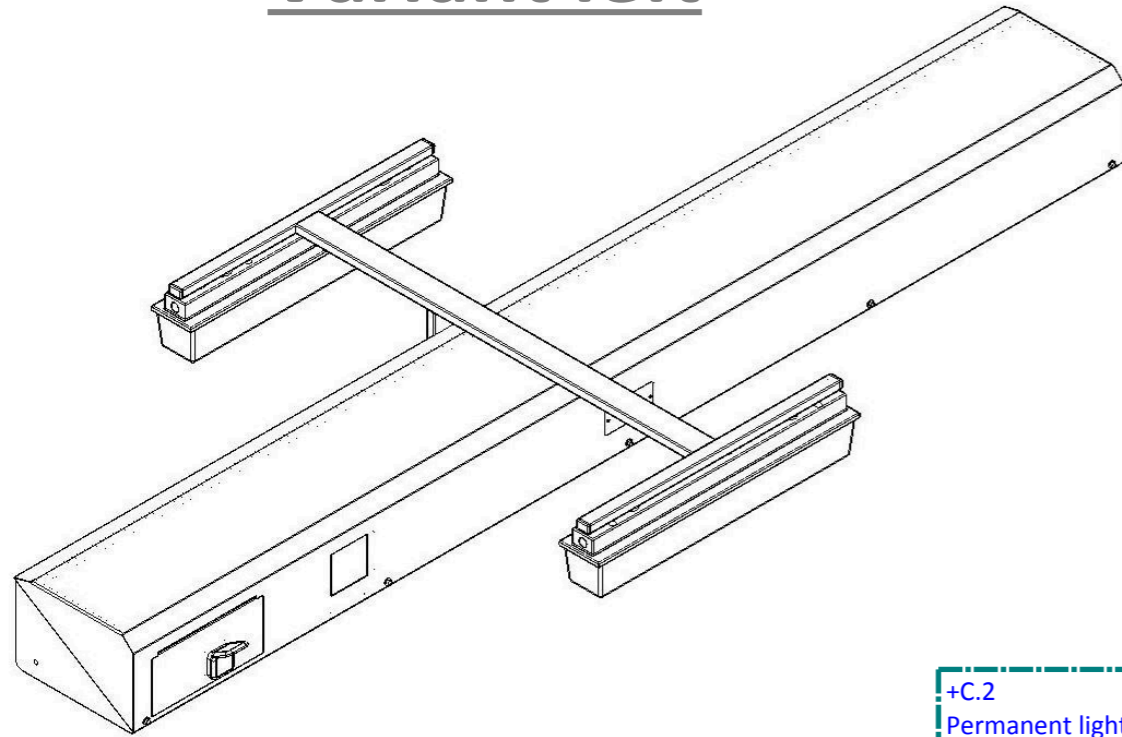


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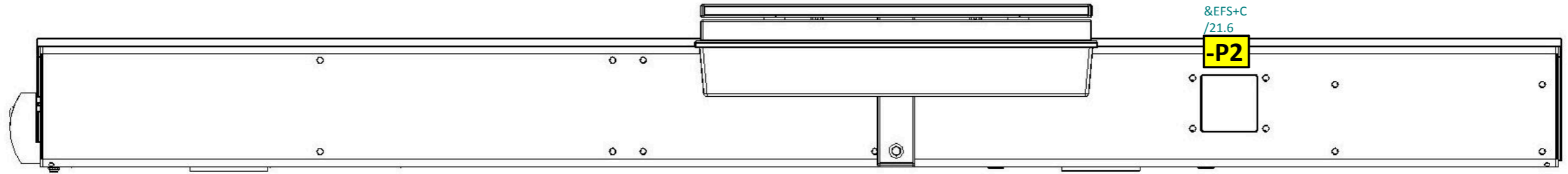


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Design left

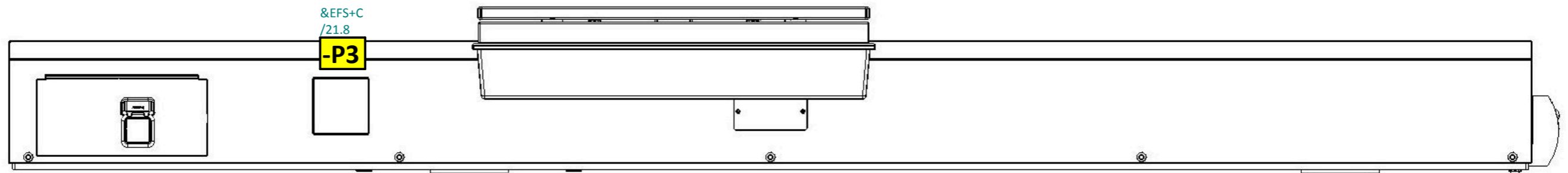
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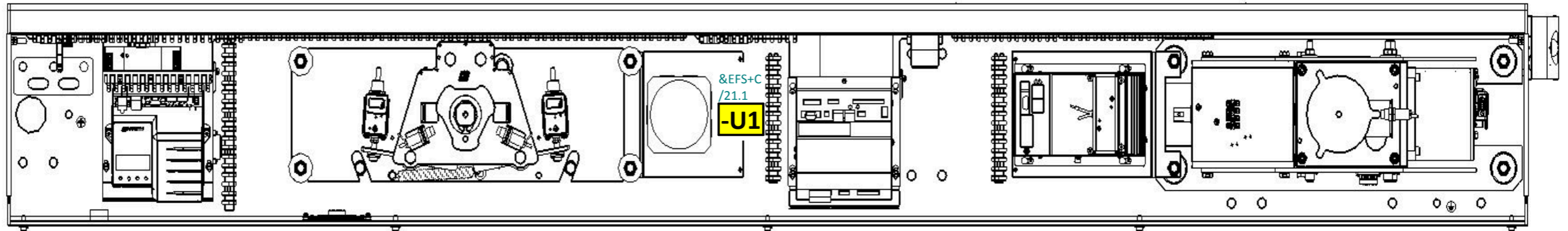
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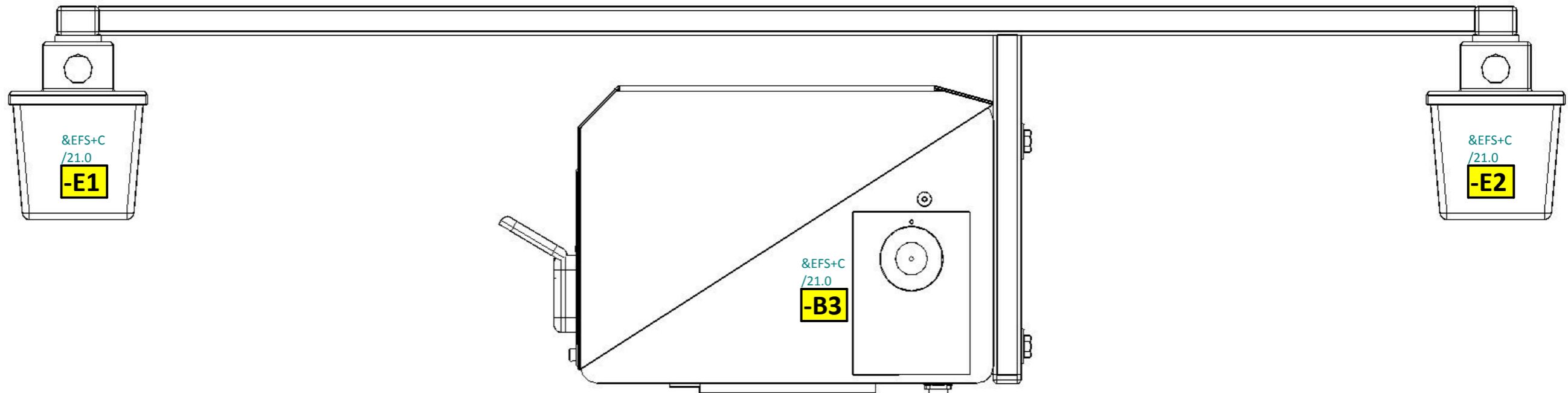
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right



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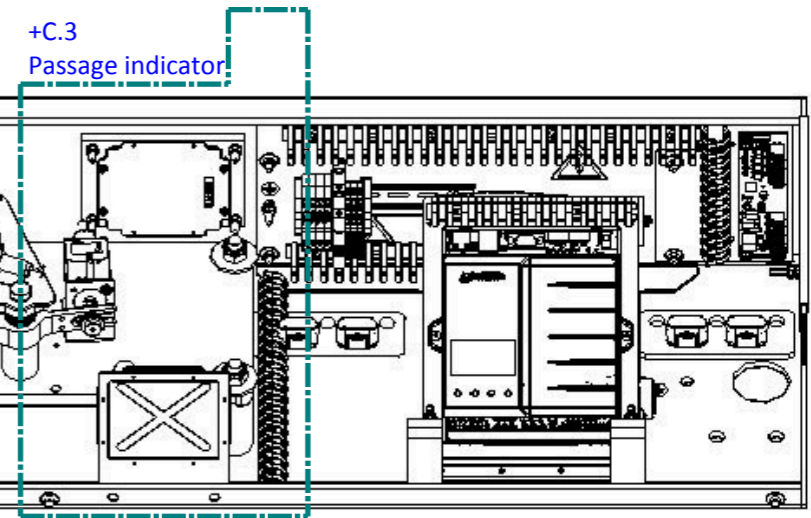
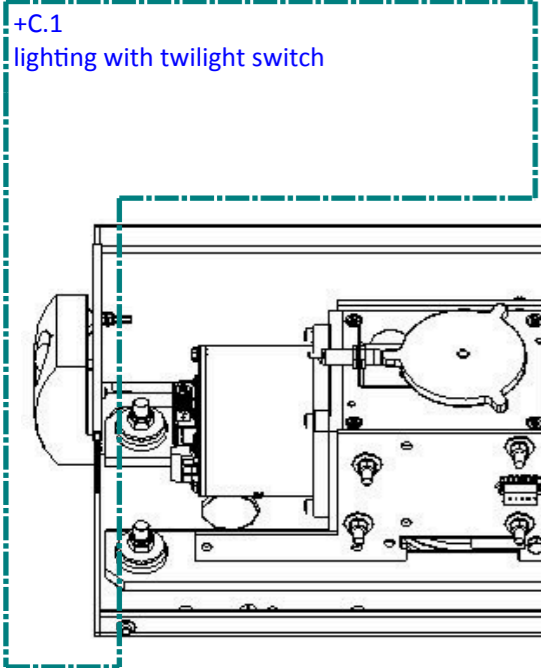
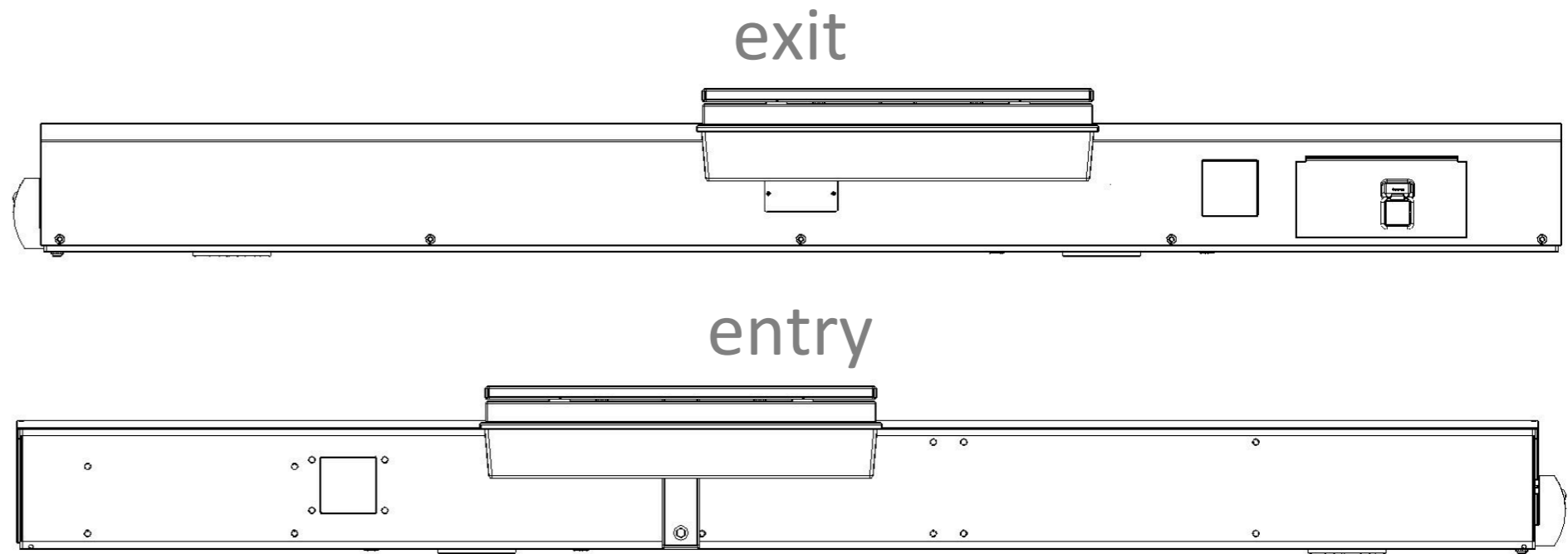
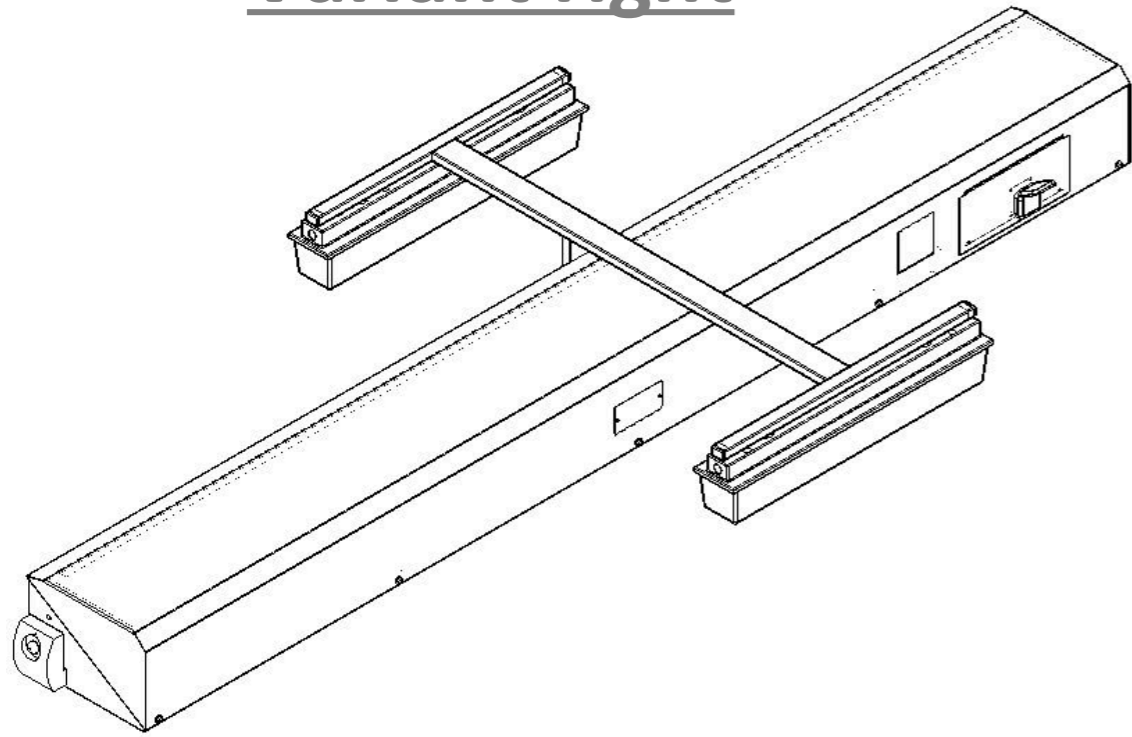
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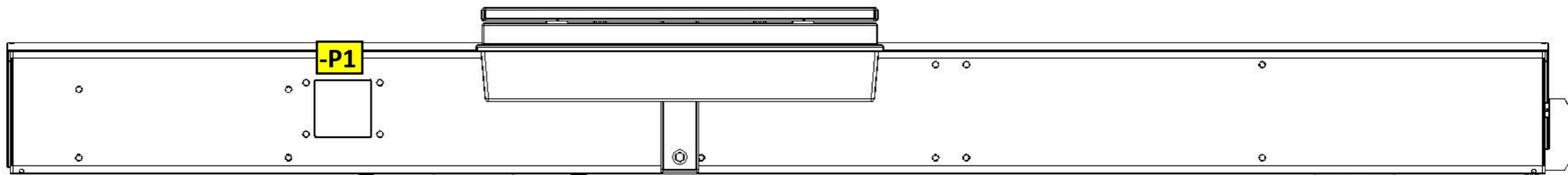
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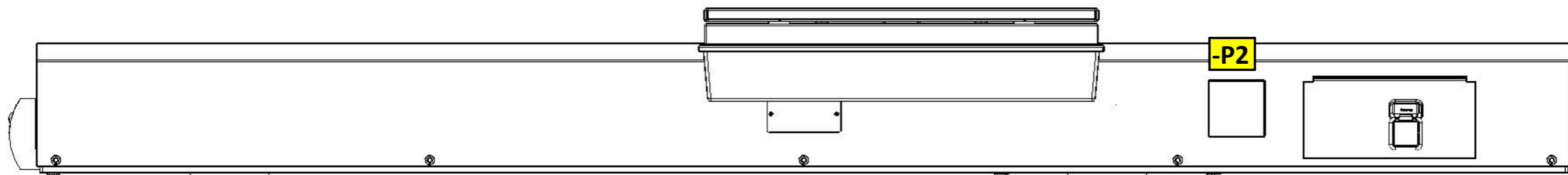


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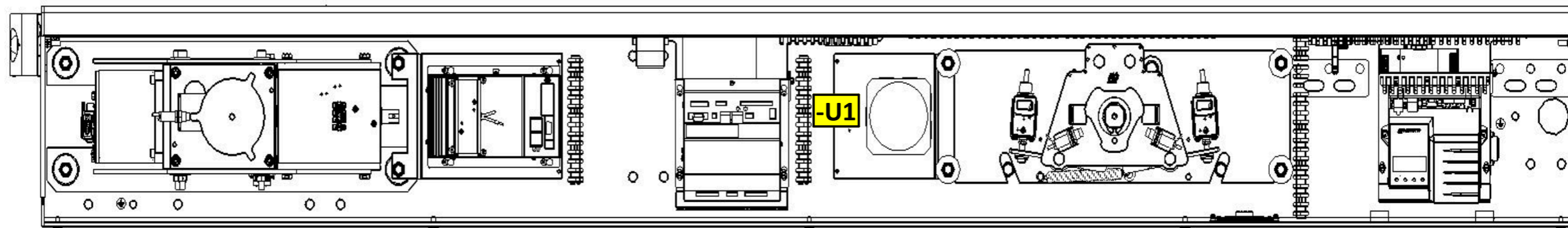
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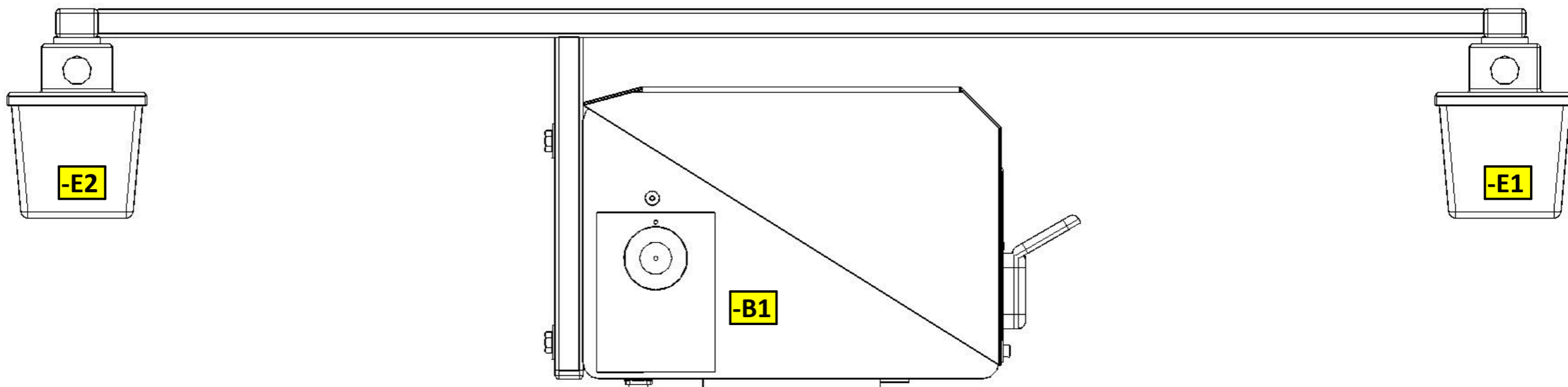
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left



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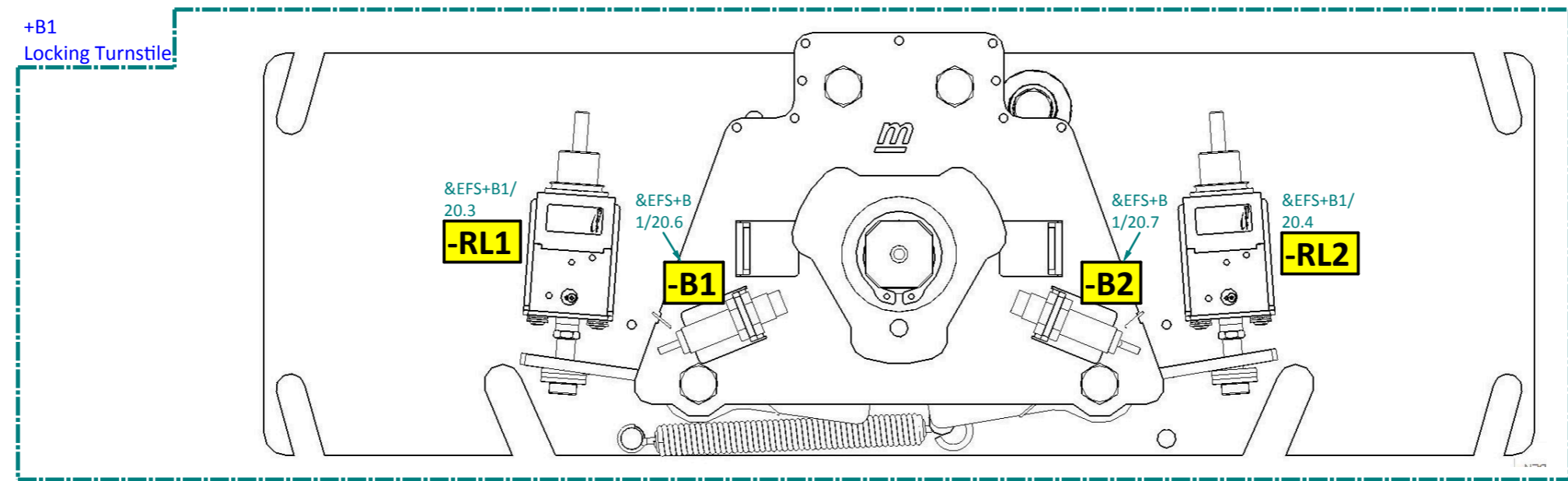
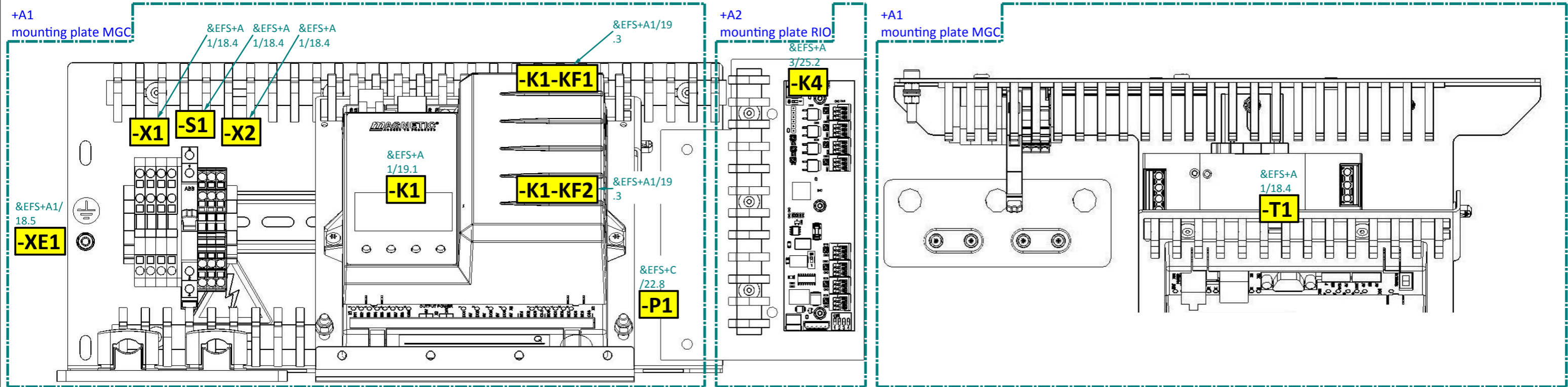
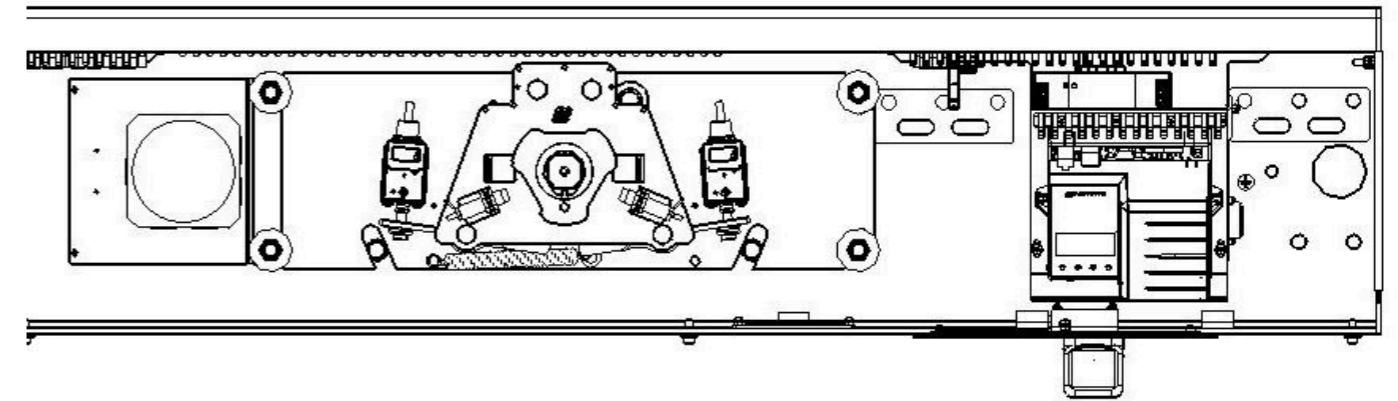
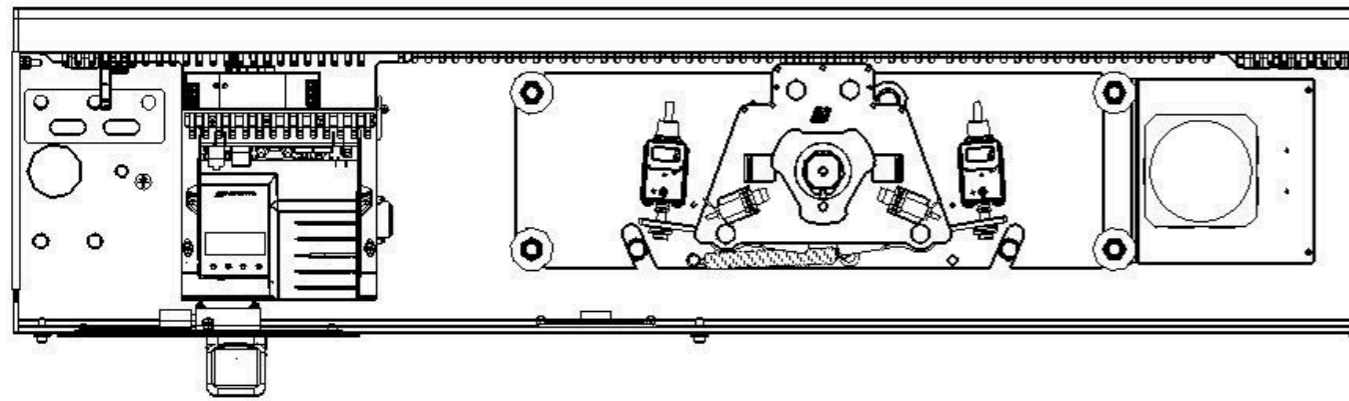
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# Turnstile

# Variant right



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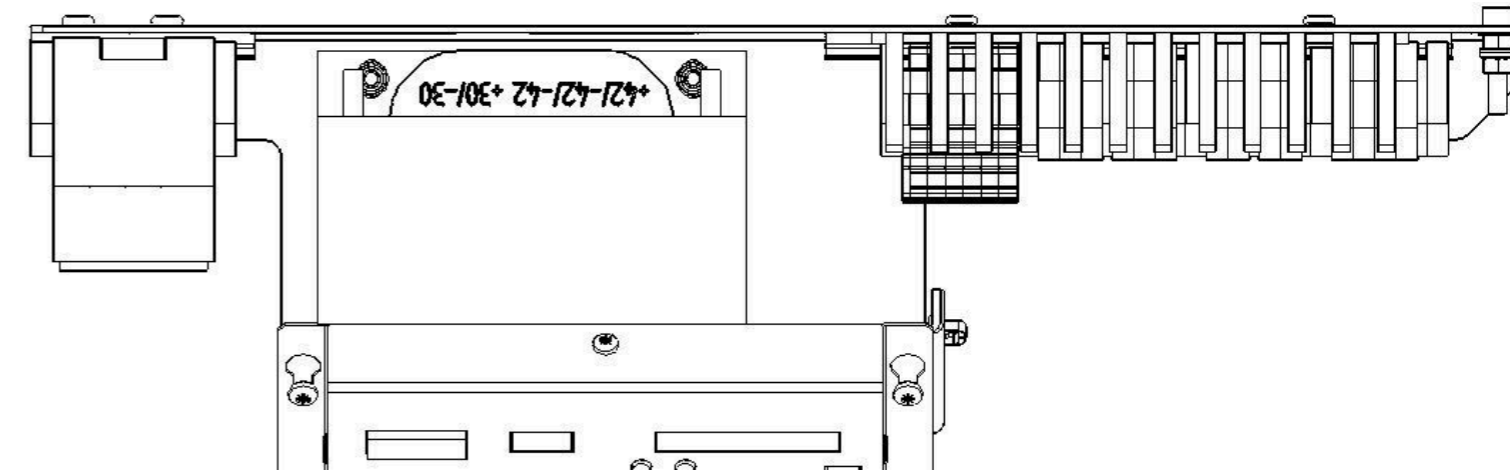
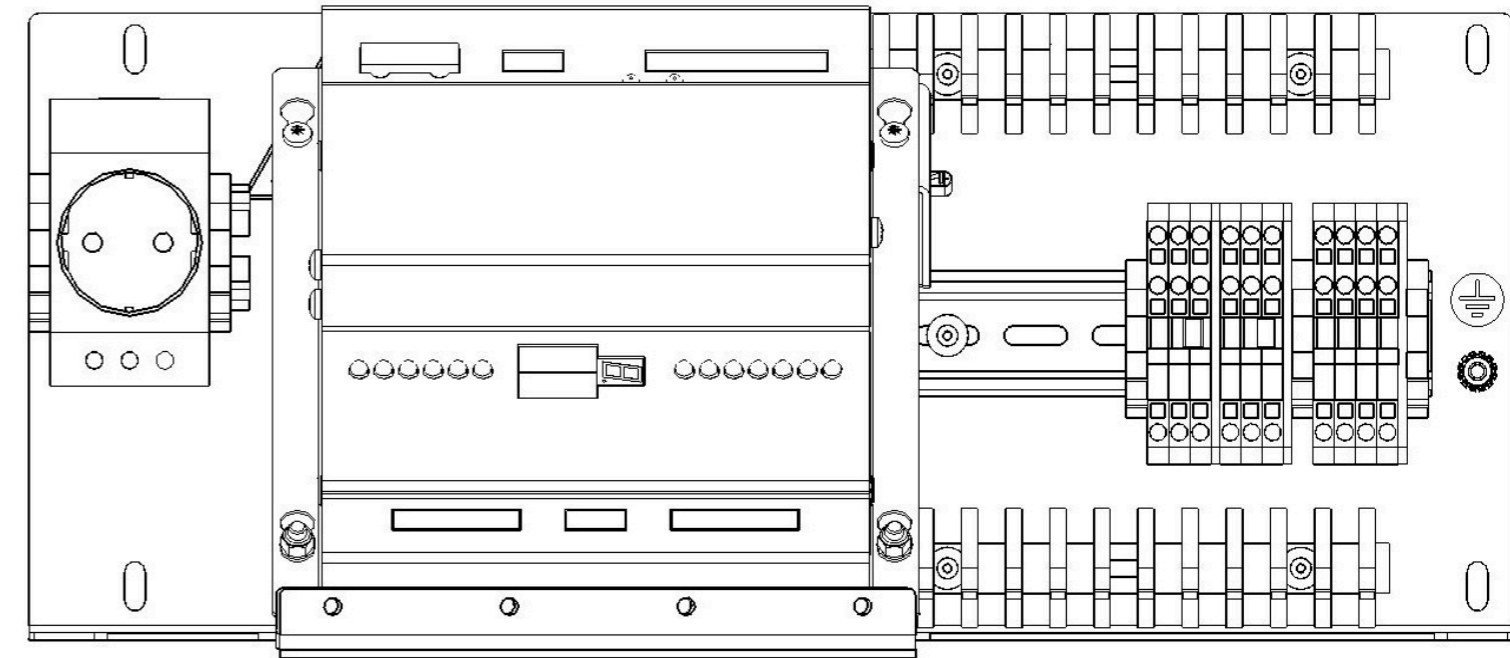
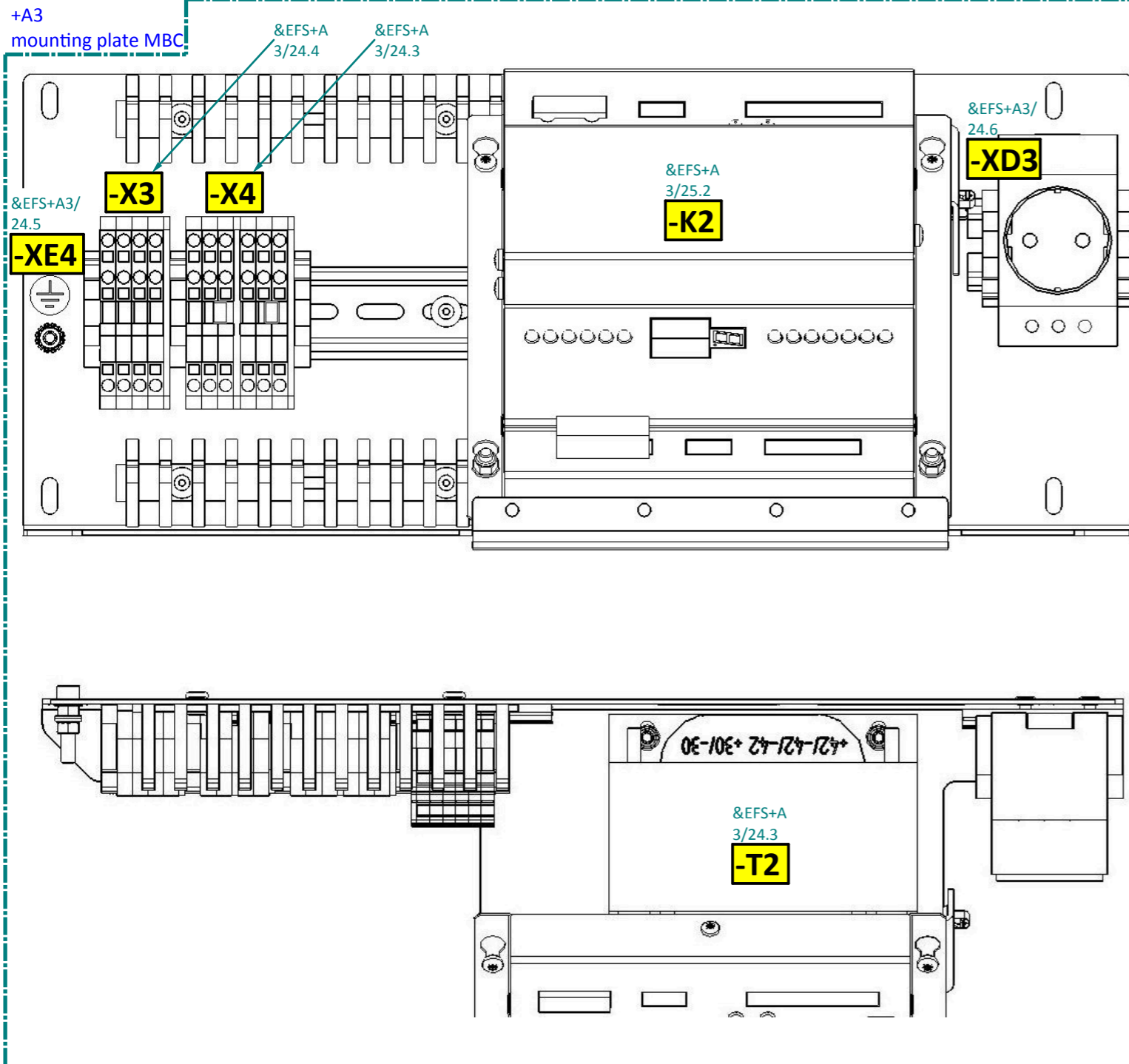
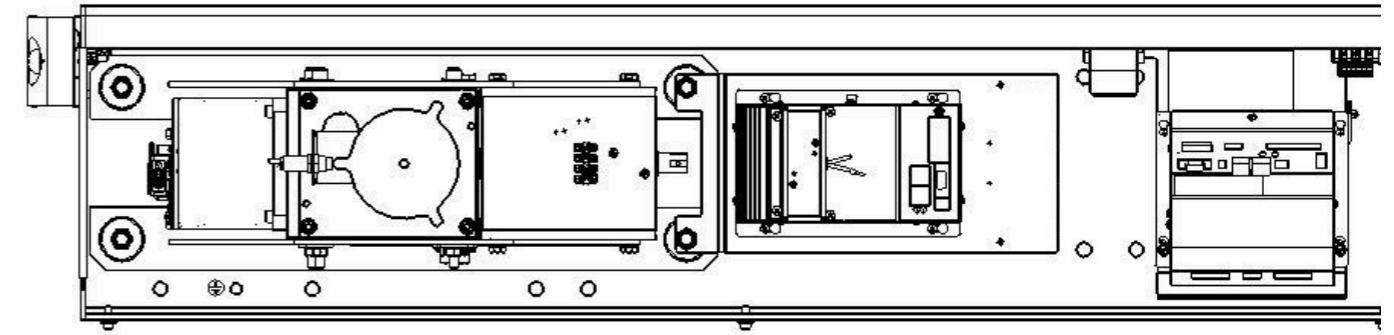
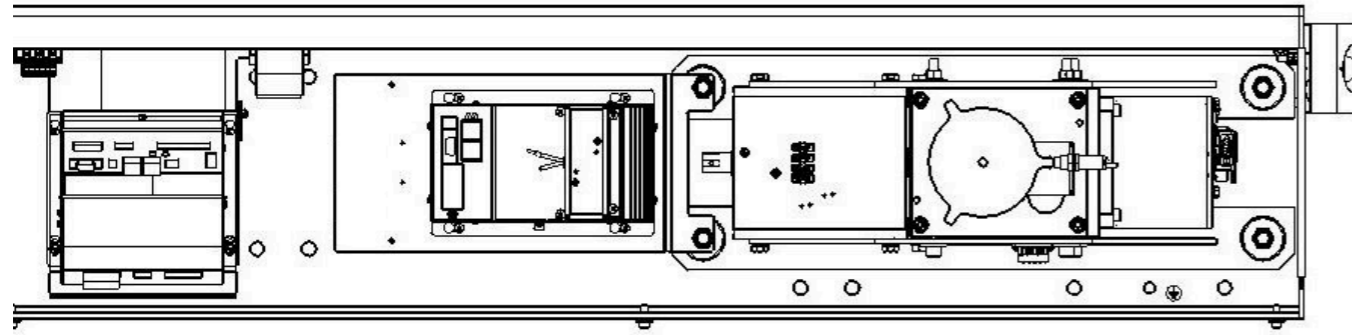
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# Variant left

# Revolving gate

# Variant right



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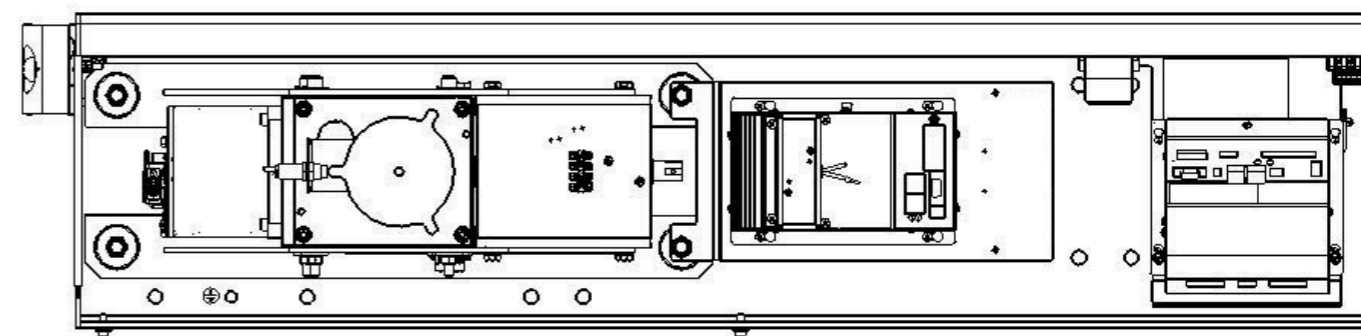
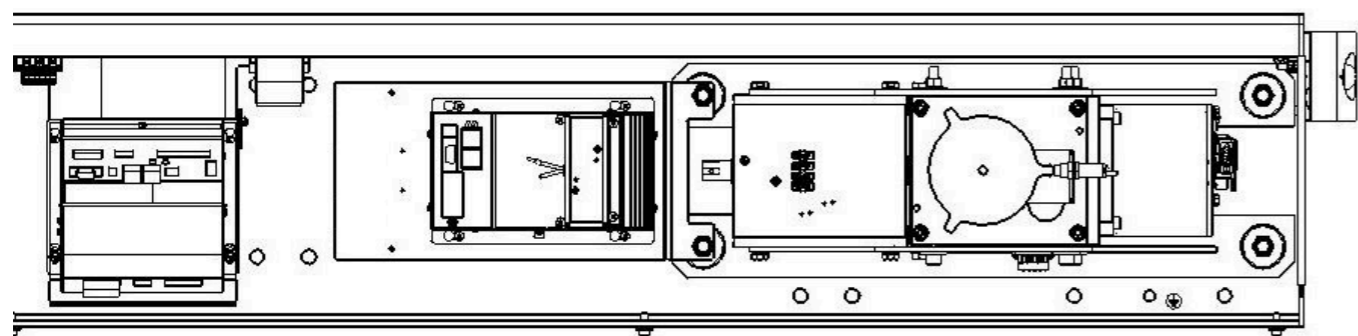
System Overview Revolving gate

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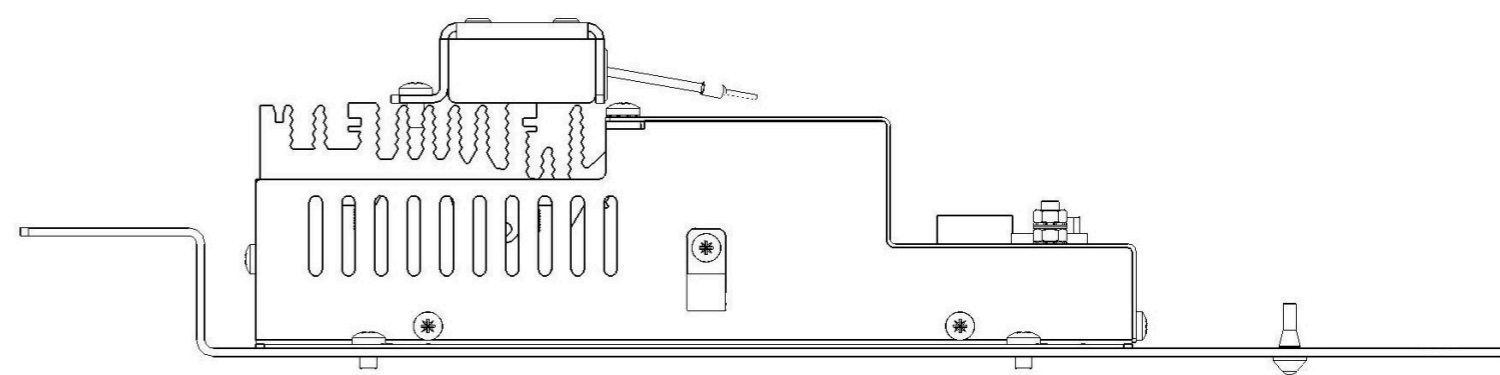
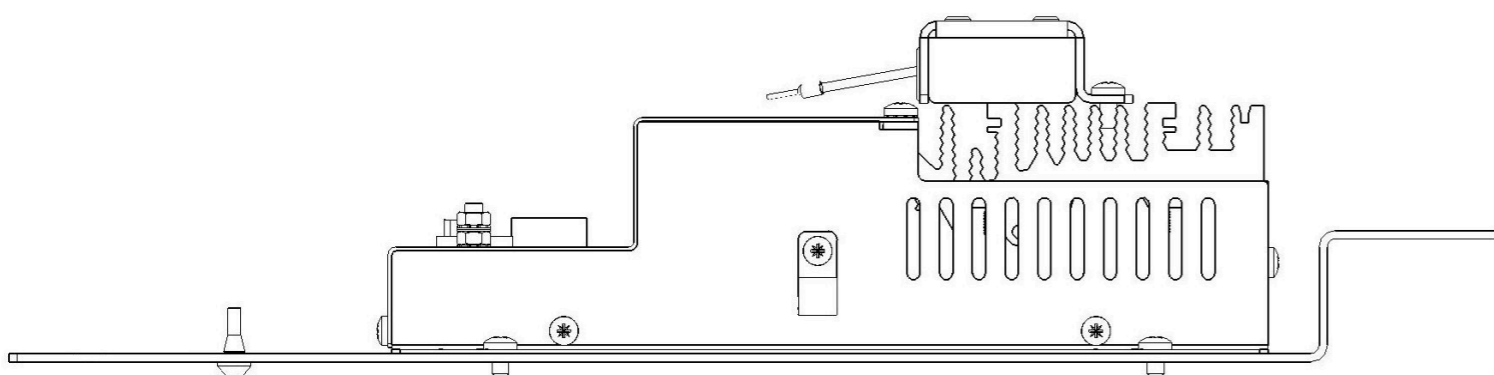
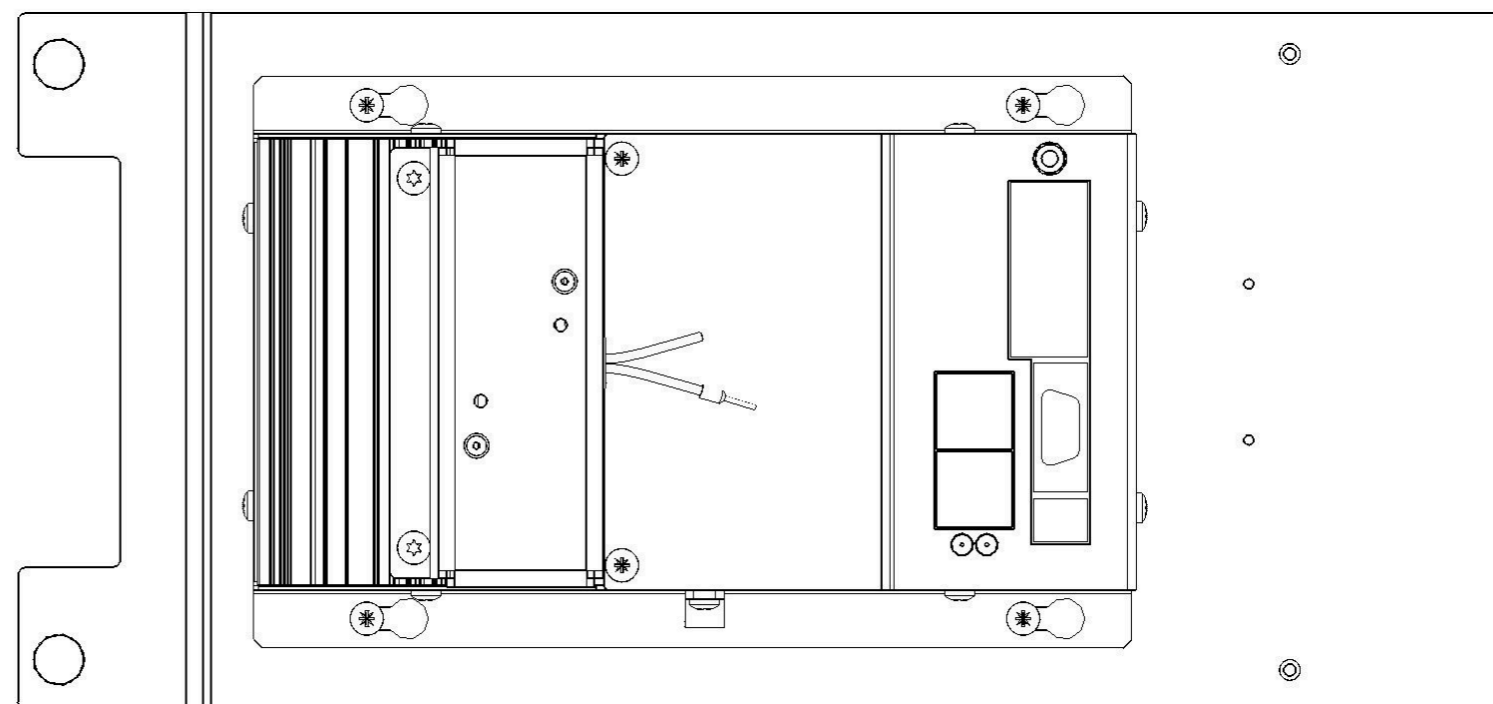
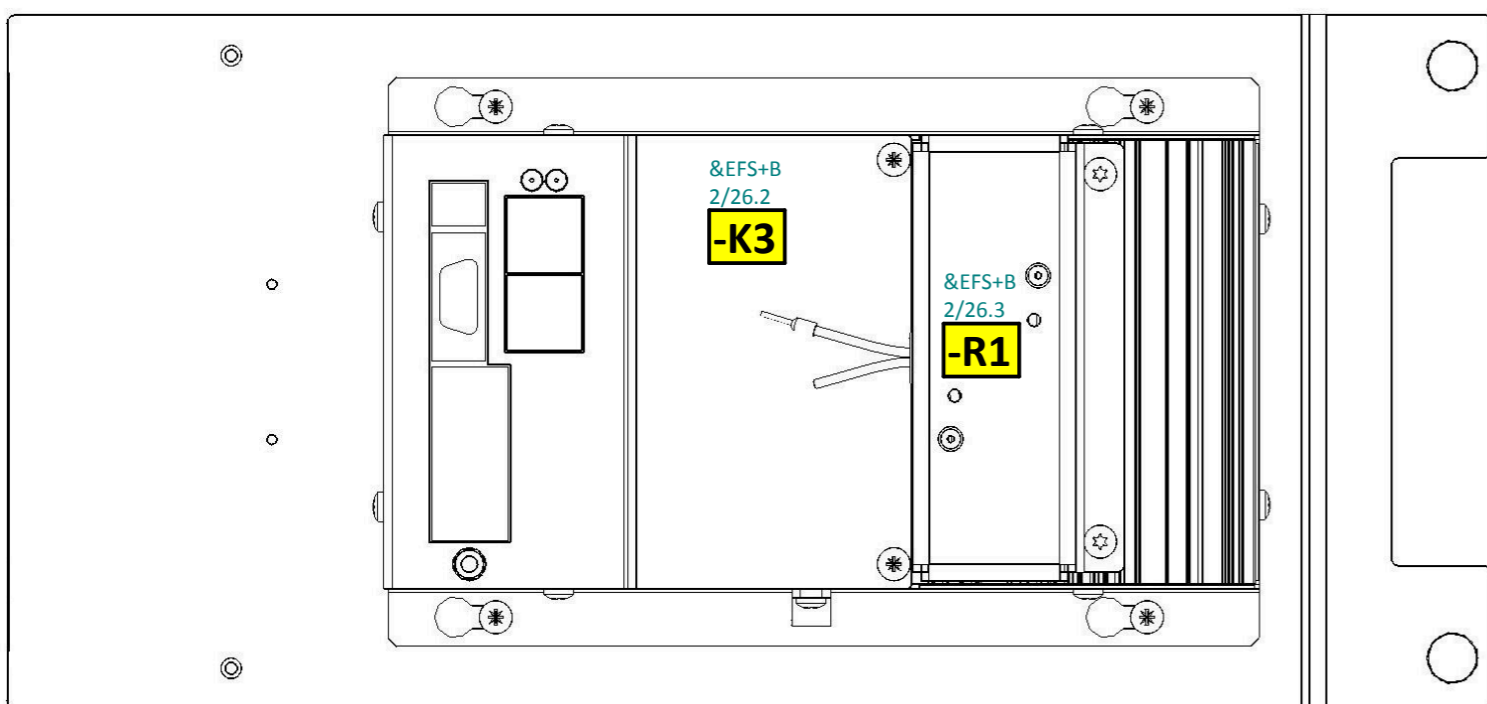
# Variant left

# Revolving gate

# Variant right



+A4  
mounting plate MMC



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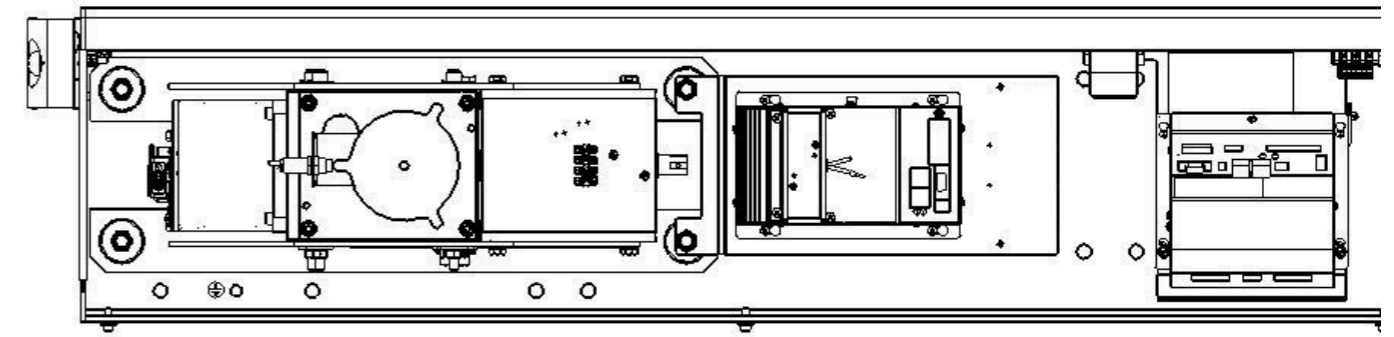
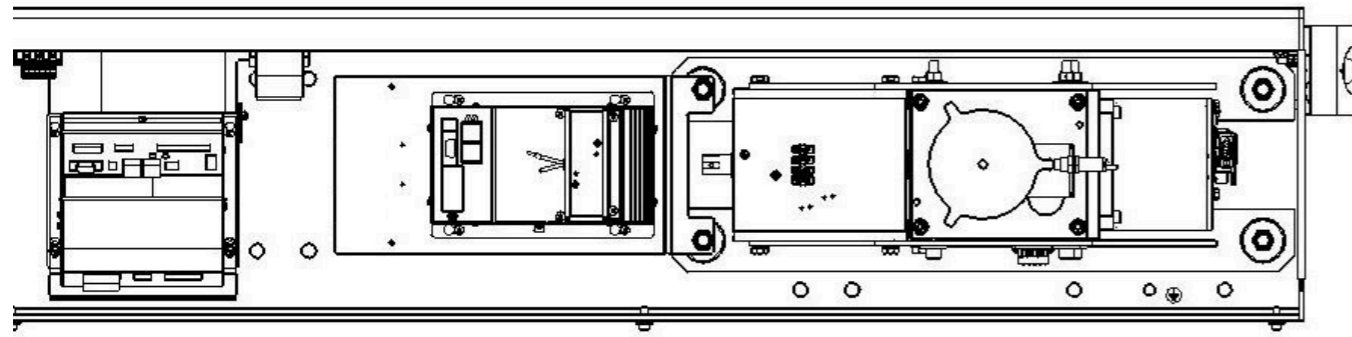
System Overview Revolving gate

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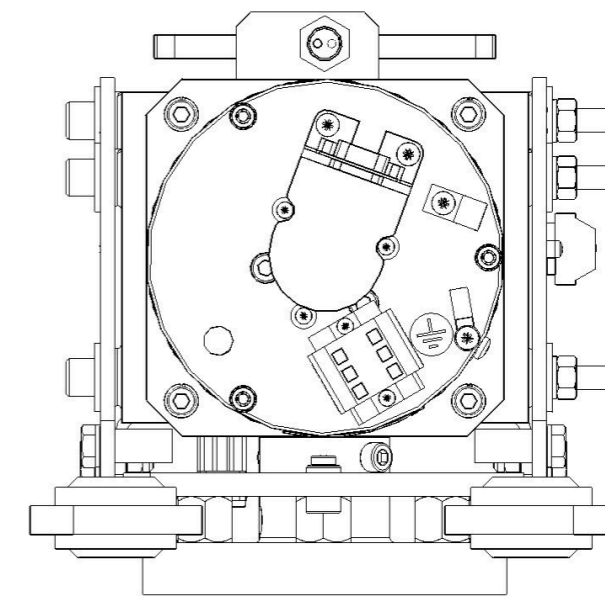
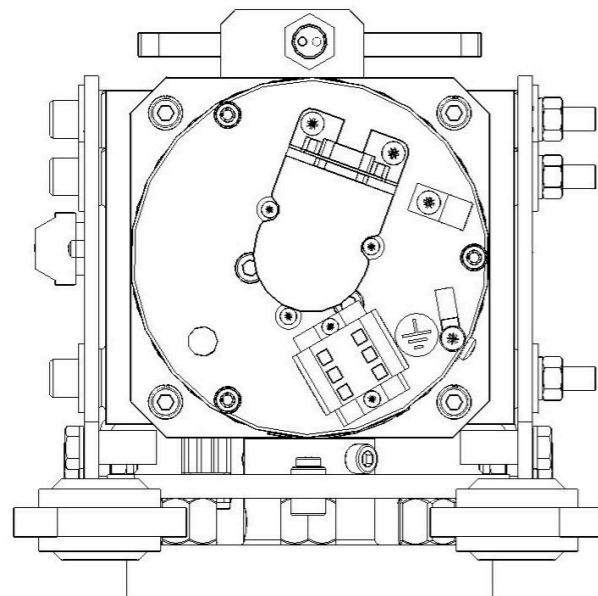
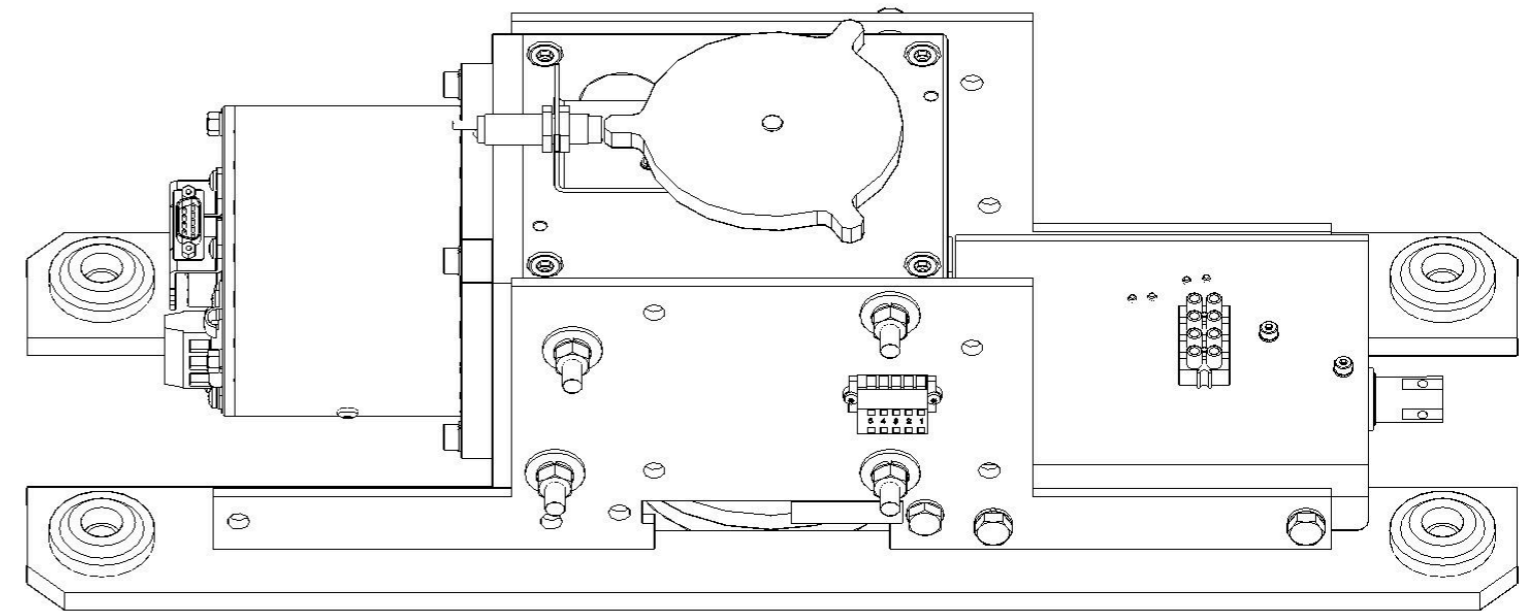
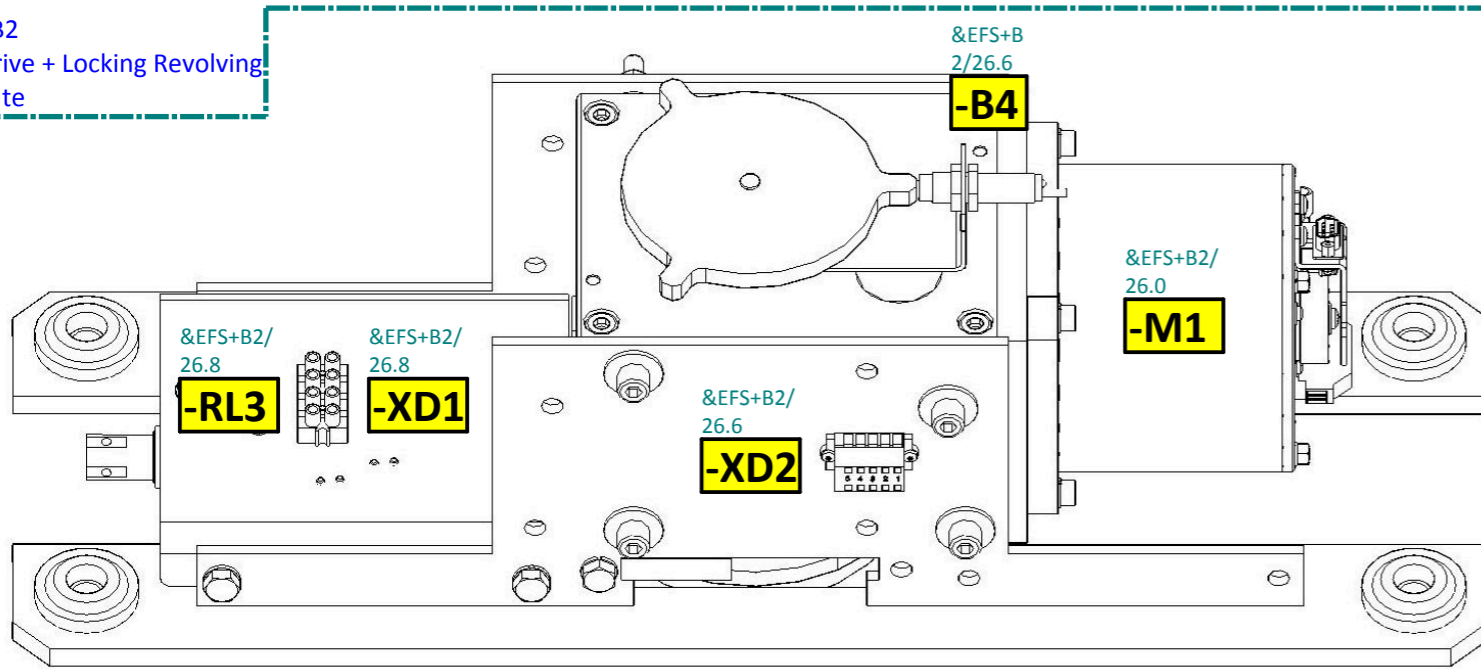
# Variant left

# Revolving gate

# Variant right



+B2  
Drive + Locking Revolving  
gate



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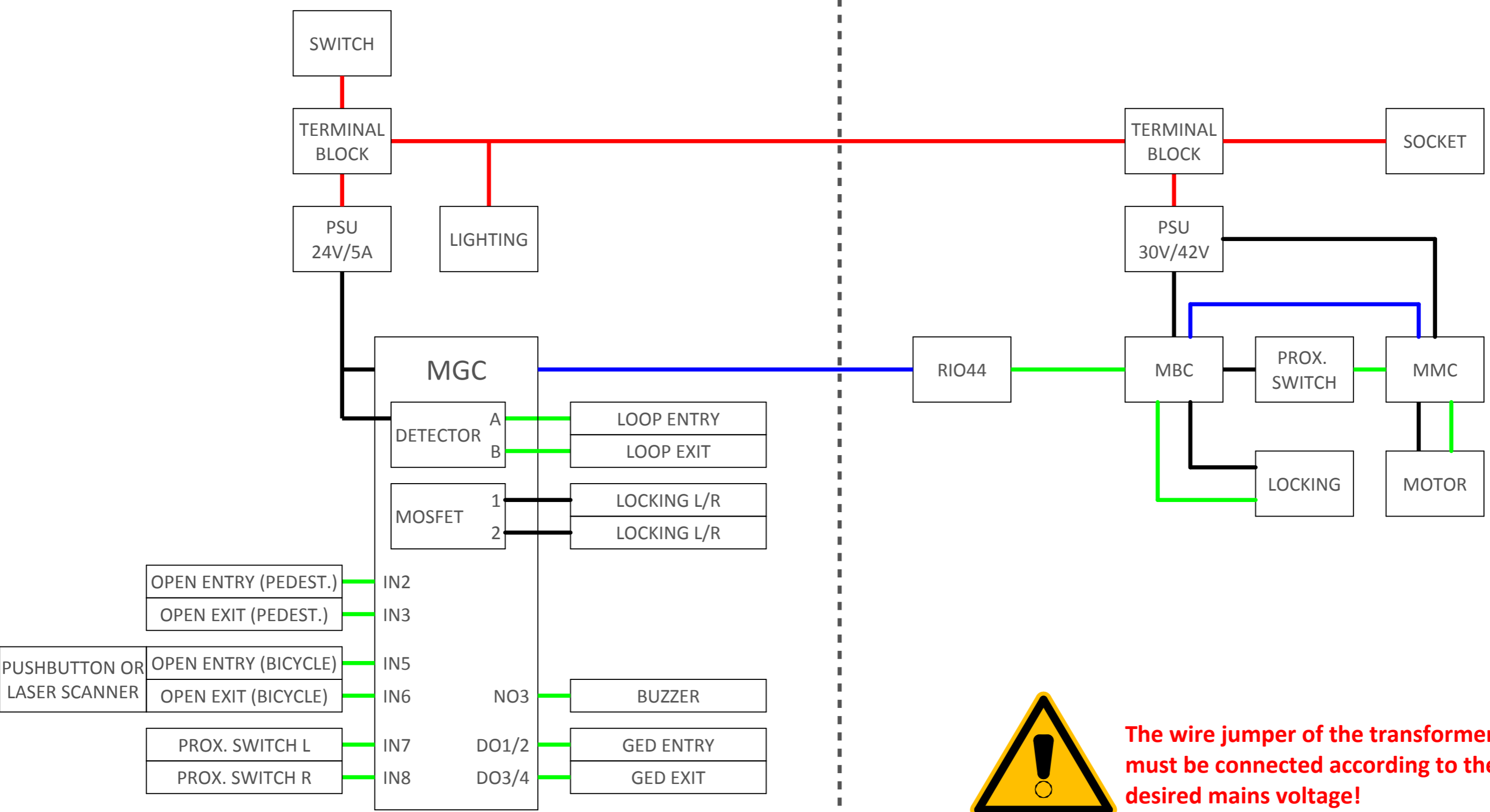
# Turnstile

# Revolving gate

**Legend**

- mains voltage
- low voltage
- signals
- CAN
- Ethernet

mains supply  
115-230V / 50-60Hz



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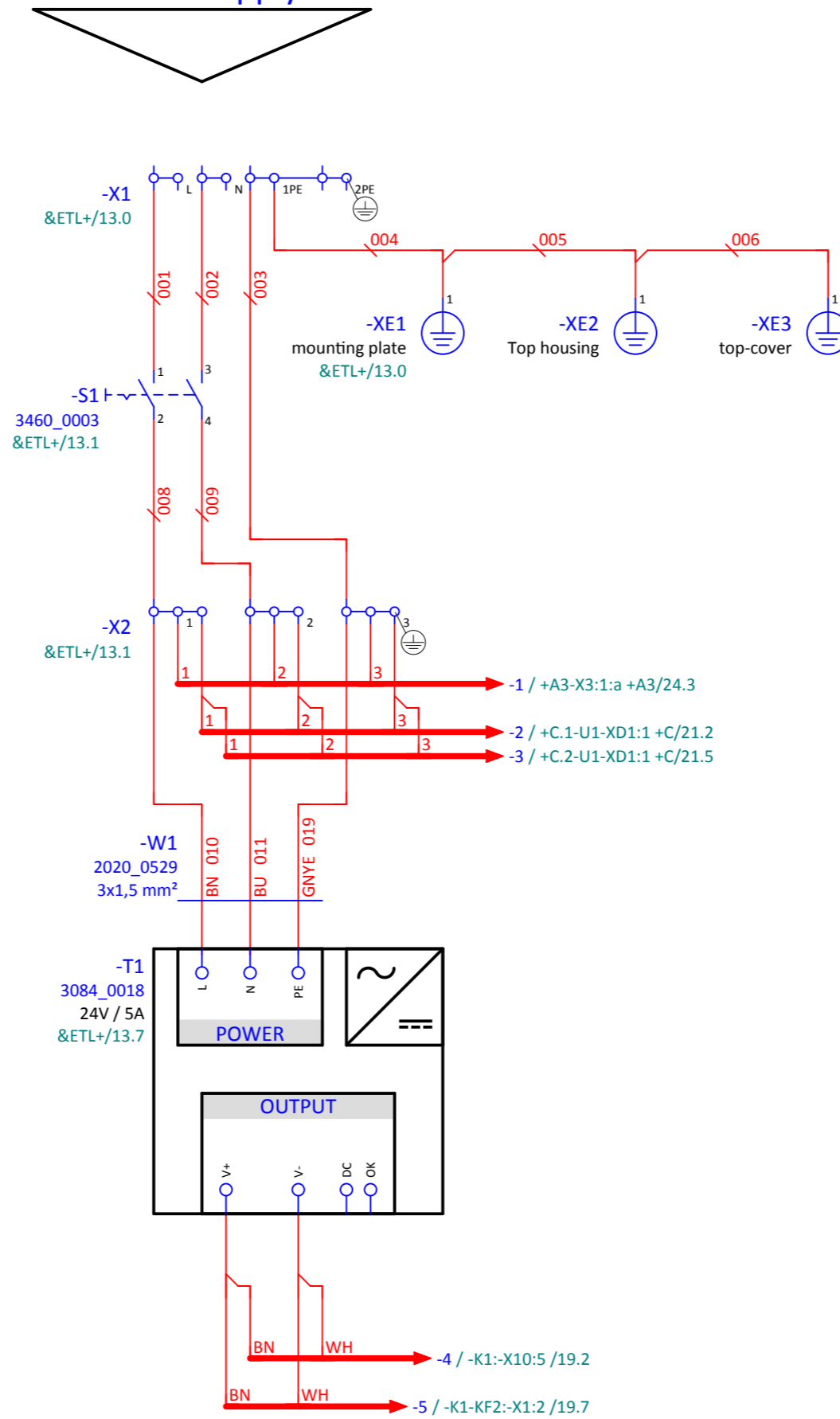


Schematic diagram

=	++	& EFA
		Schematic diagram
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mains supply



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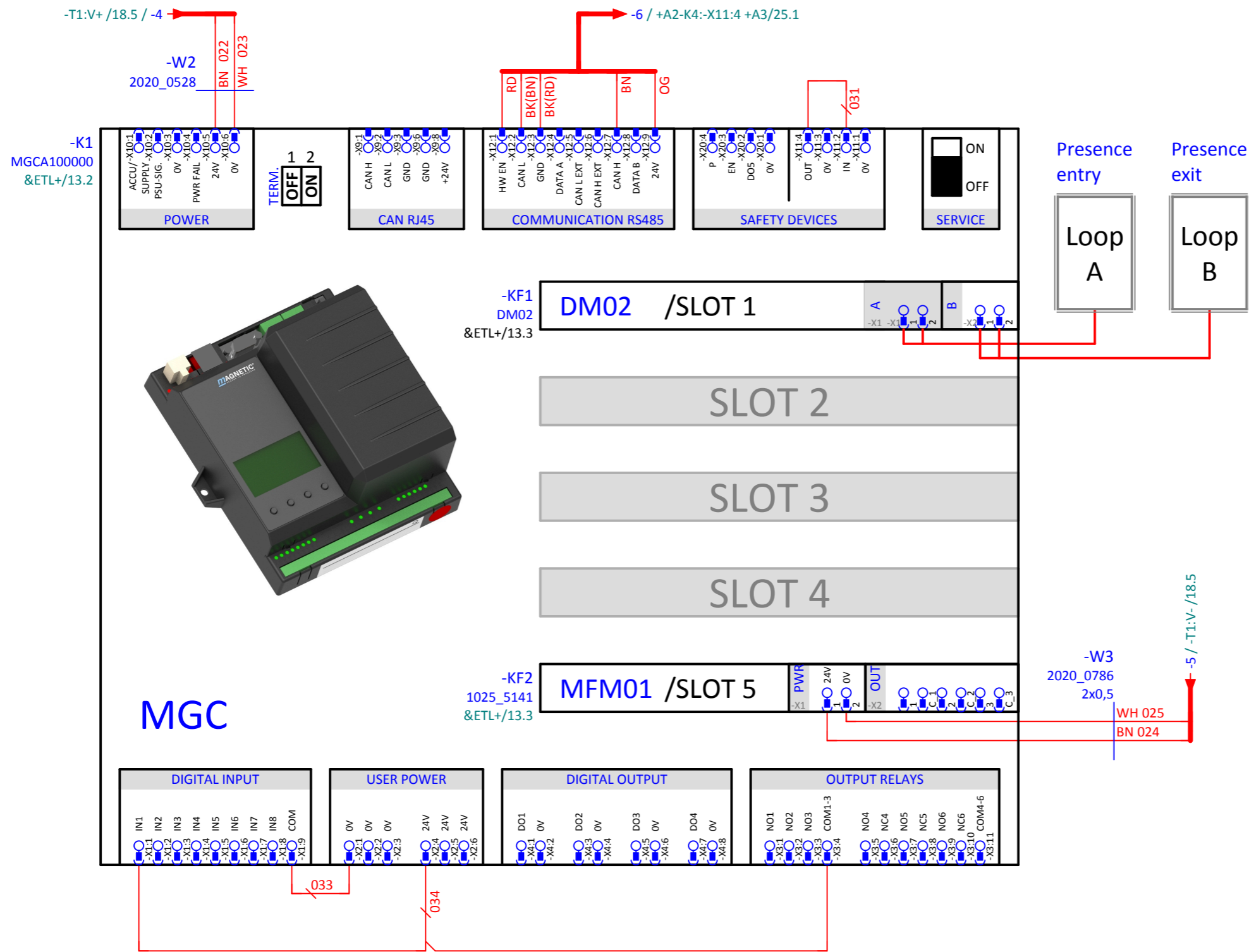
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mains supply

= A1	++	& EFS
Supply		Schematic
5527_0092	+ A1	Page 18
	mounting plate MGC	from 31





Contact assignment MGC	
Contact	Functions / assignments
IN1	Emergency open
IN2	open on the entry side
IN3	open on the output side
IN4	n.c.
IN5	Sensor / Pushbutton entry
IN6	Sensor / Pushbutton exit
IN7	Sensor B1
IN8	Sensor B2
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	Buzzer / Siren (alarm)
COM 1-3	Common Contact from Customer
NO4	passage free (entry)
NC4	passage free (entry)
NO5	passage free (exit)
NC5	passage free (exit)
NO6	error
NC6	error
COM 4-6	Common Contact from Customer

SLOT 5	
Locking	
OUT 1	Locking magnet left
OUT 2	Locking magnet right
OUT 3	n.c.

**Information: IN5 / IN6**

At these inputs you connect e.g. a pushbutton for opening the bicycle passage from the respective passage side.

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

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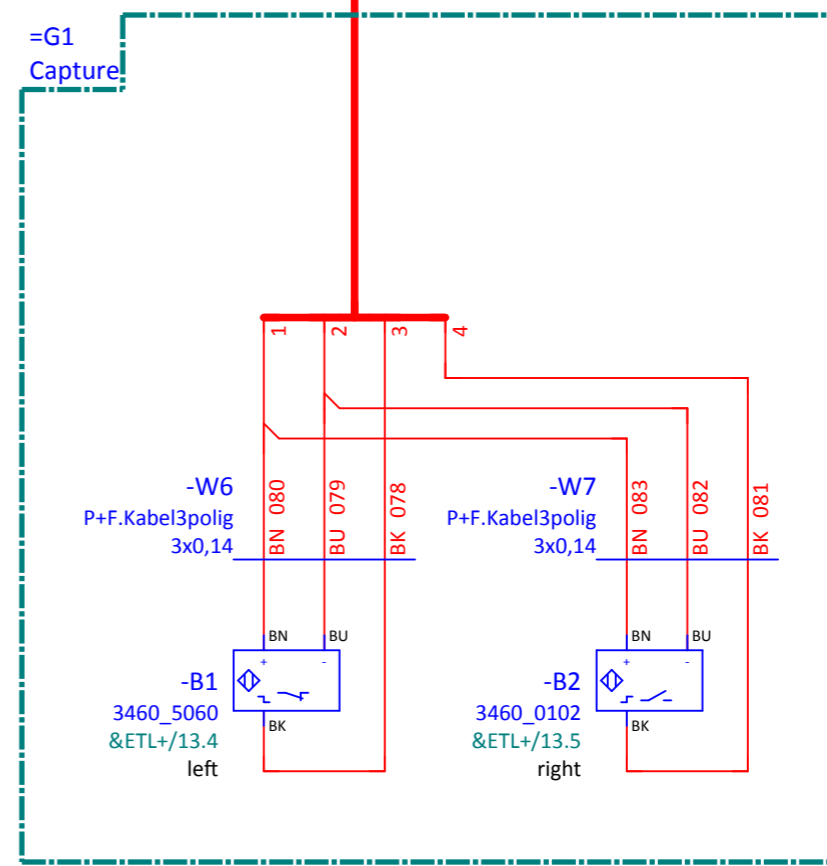
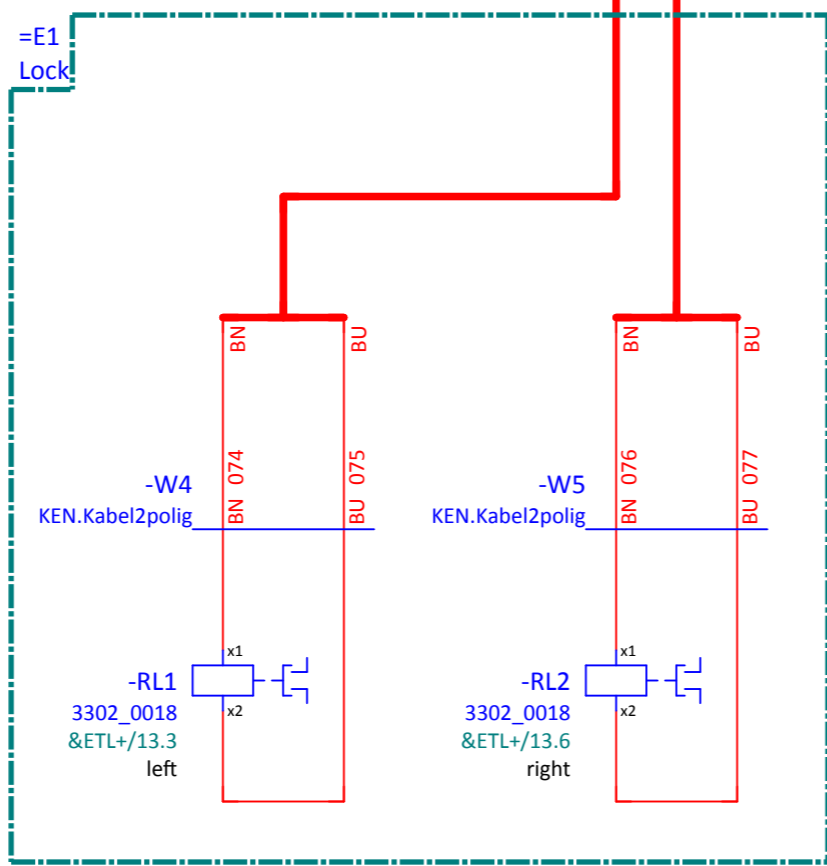
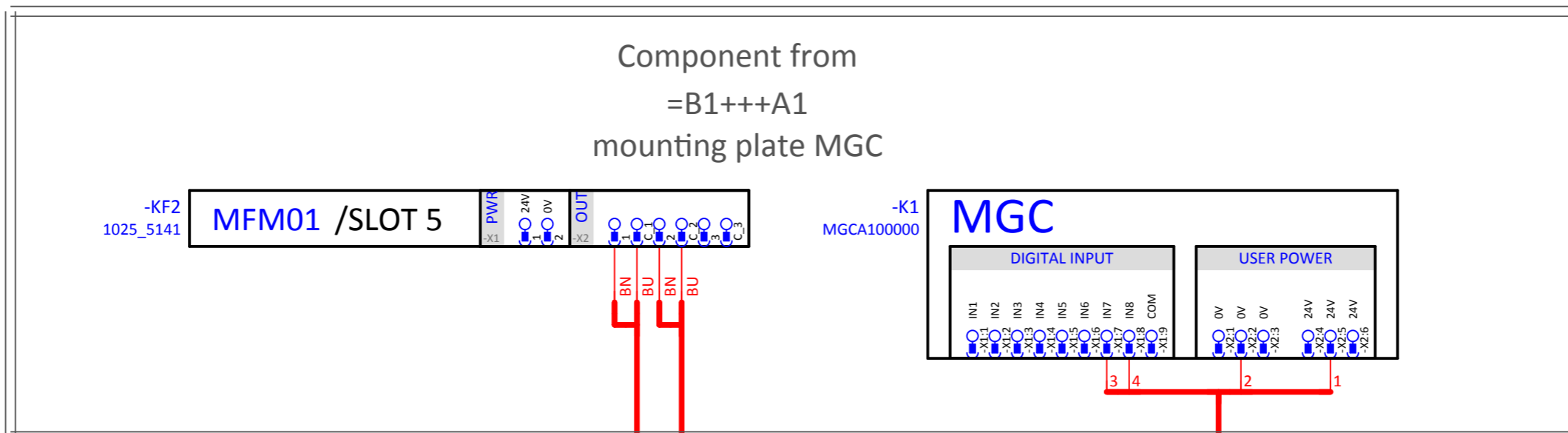
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controller

= B1	++	& EFS
Control		Schematic
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	mounting plate MGC	from 3

Component from  
=B1+++A1  
mounting plate MGC



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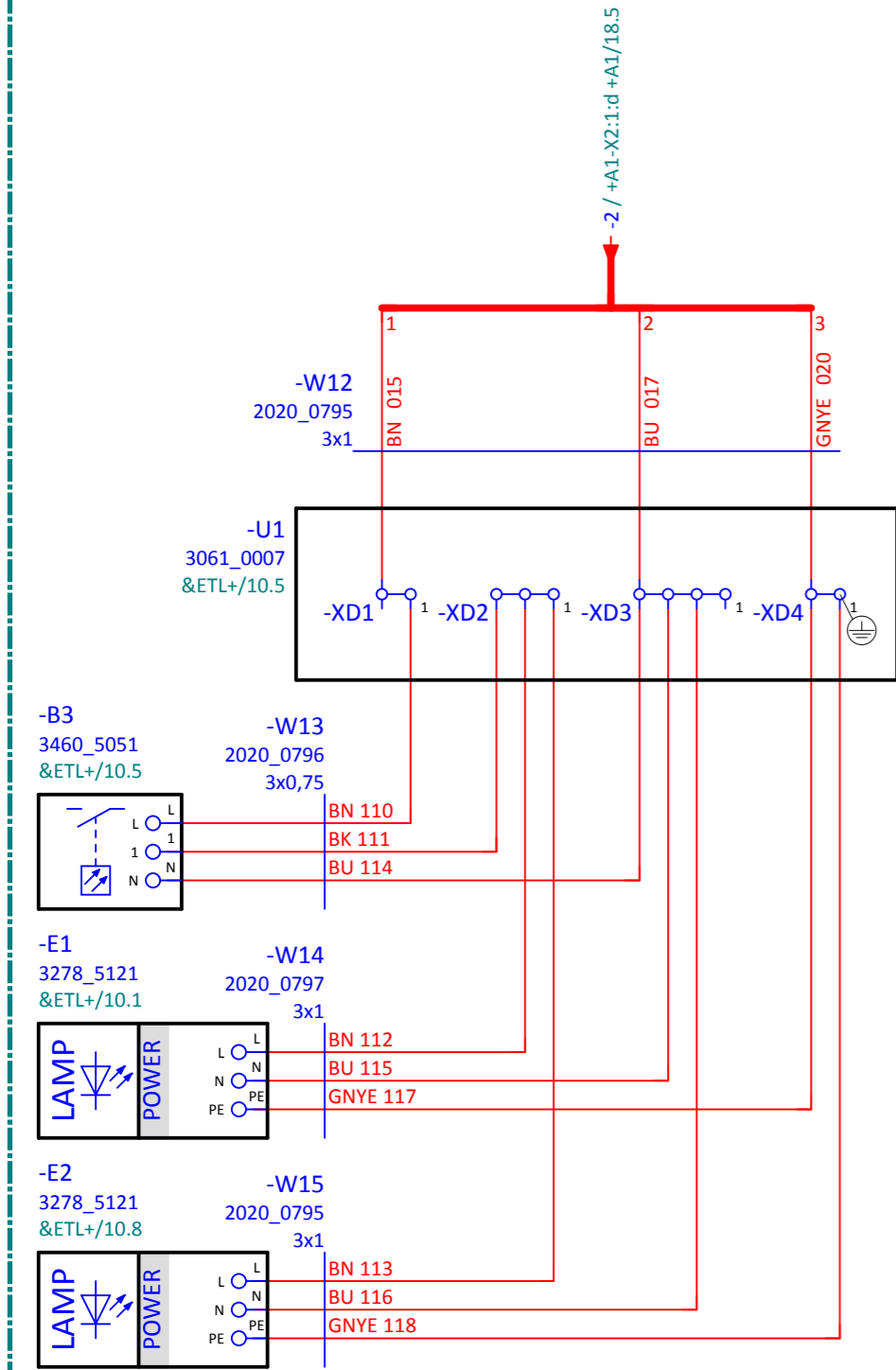
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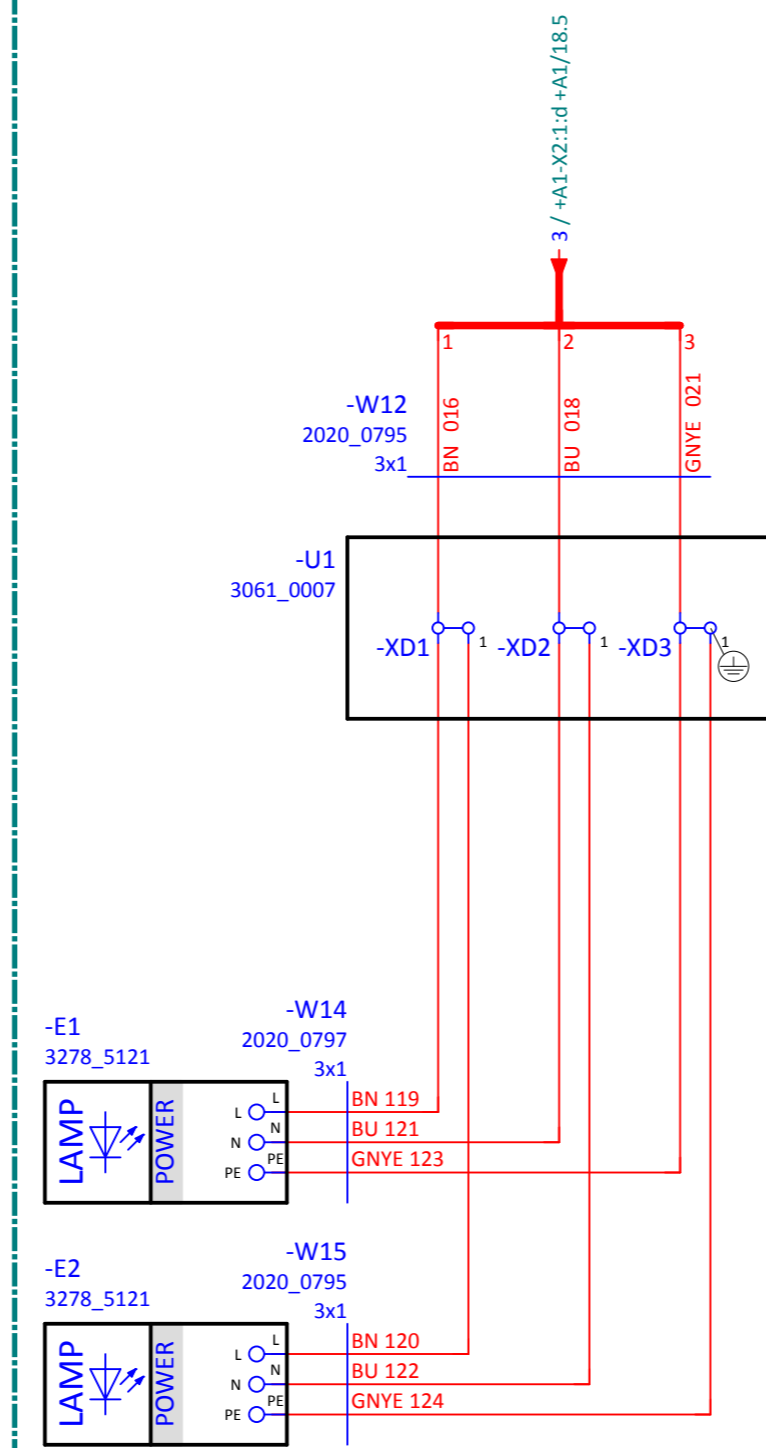
Locking

= E1	++	& EFS
Lock		Schematic
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	Locking Turnstile	from 31

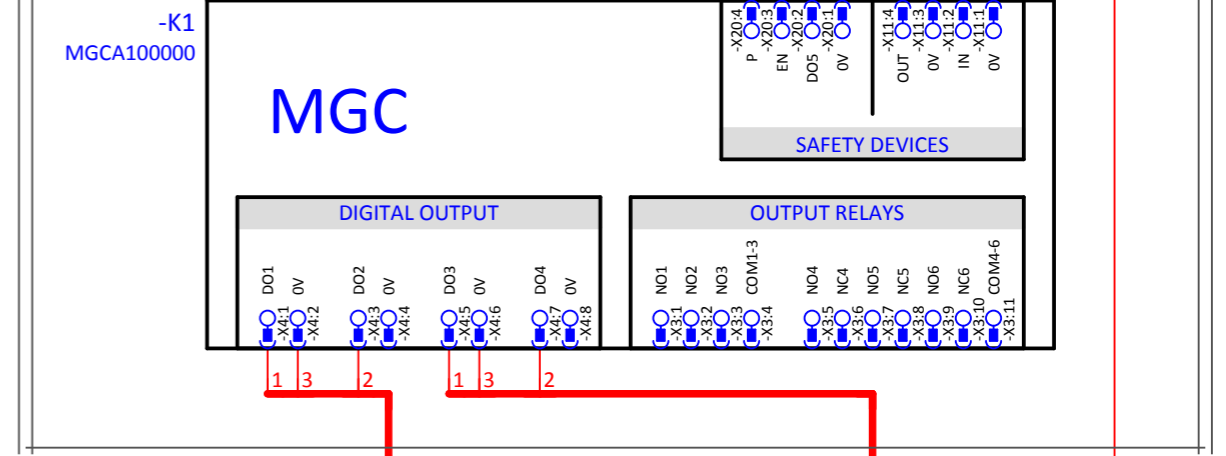
=D1+1  
Light  
lighting with twilight switch



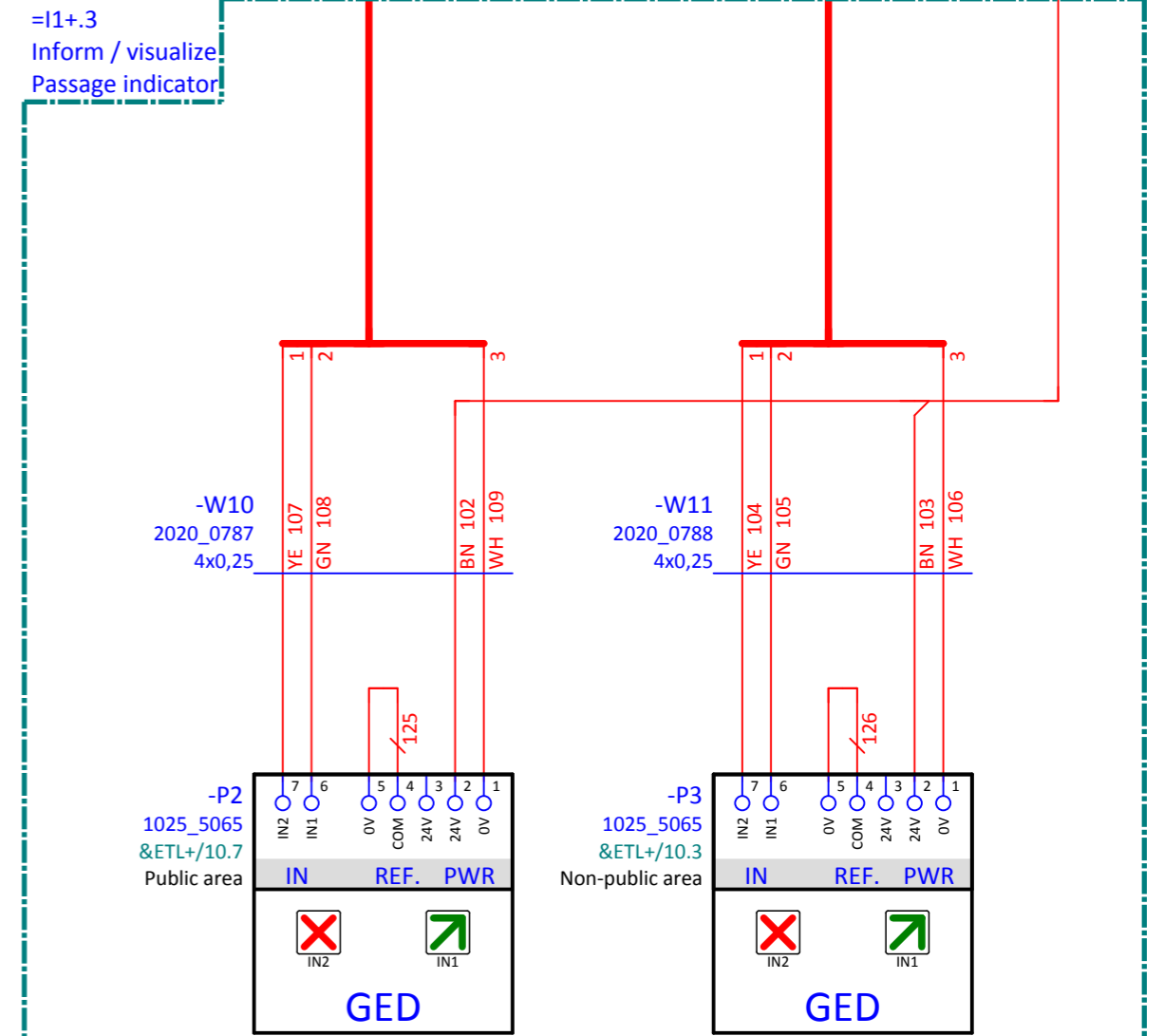
=D1+2  
Light  
Permanent light



Component from  
=B1+++A1  
mounting plate MGC



=I1+3  
Inform / visualize  
Passage indicator



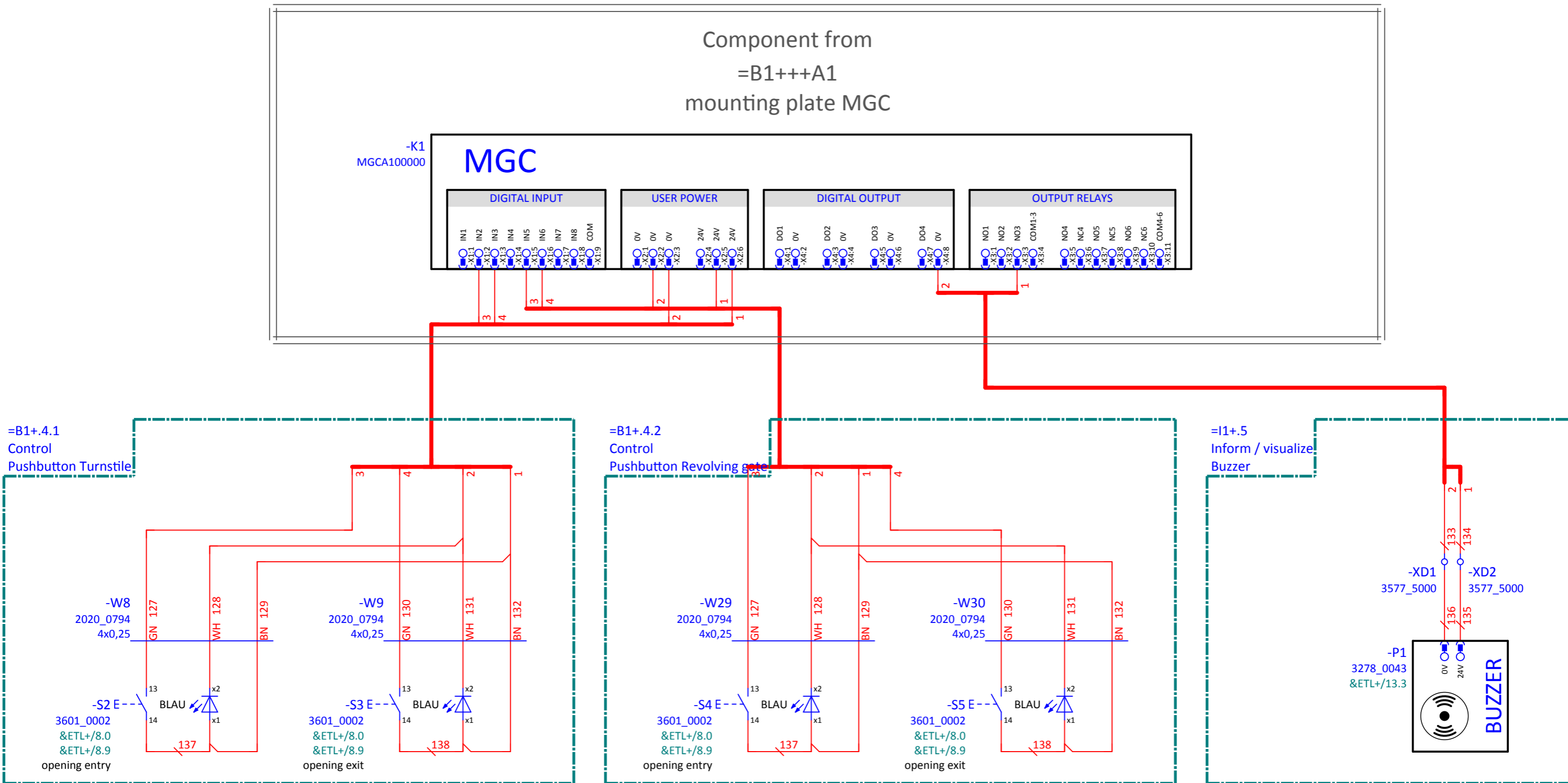
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options lighting & GED

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options		from 31



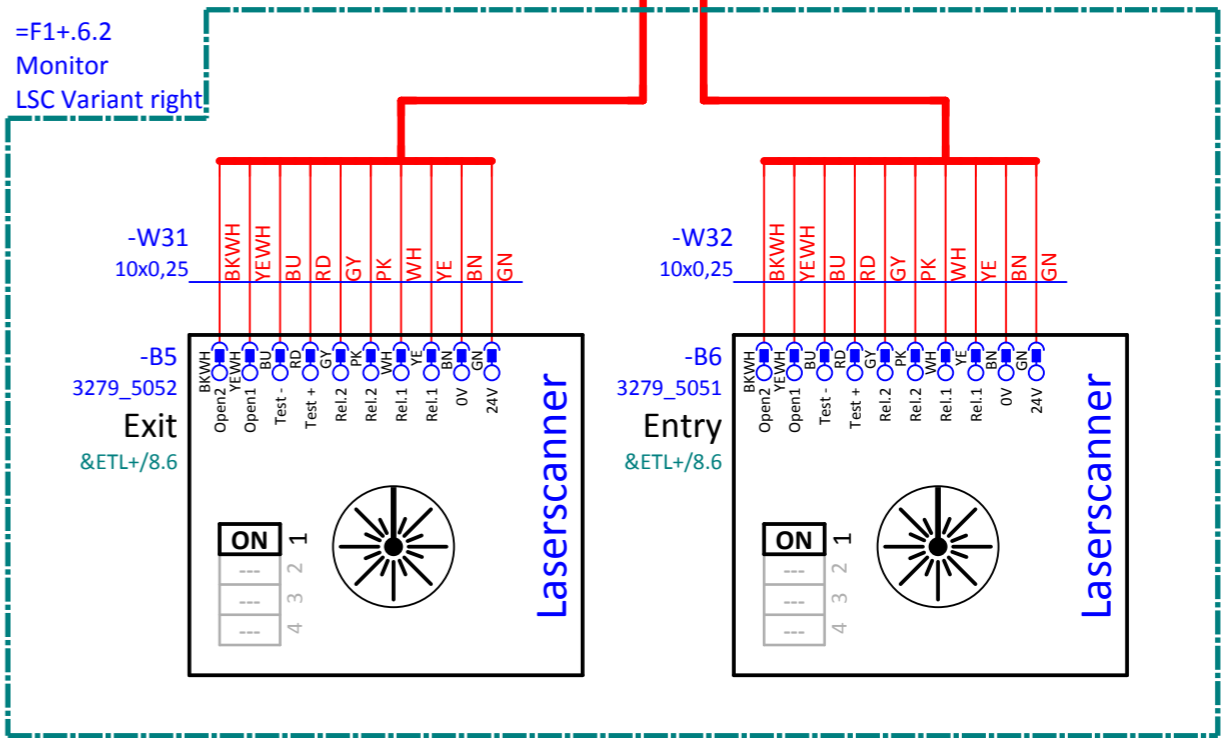
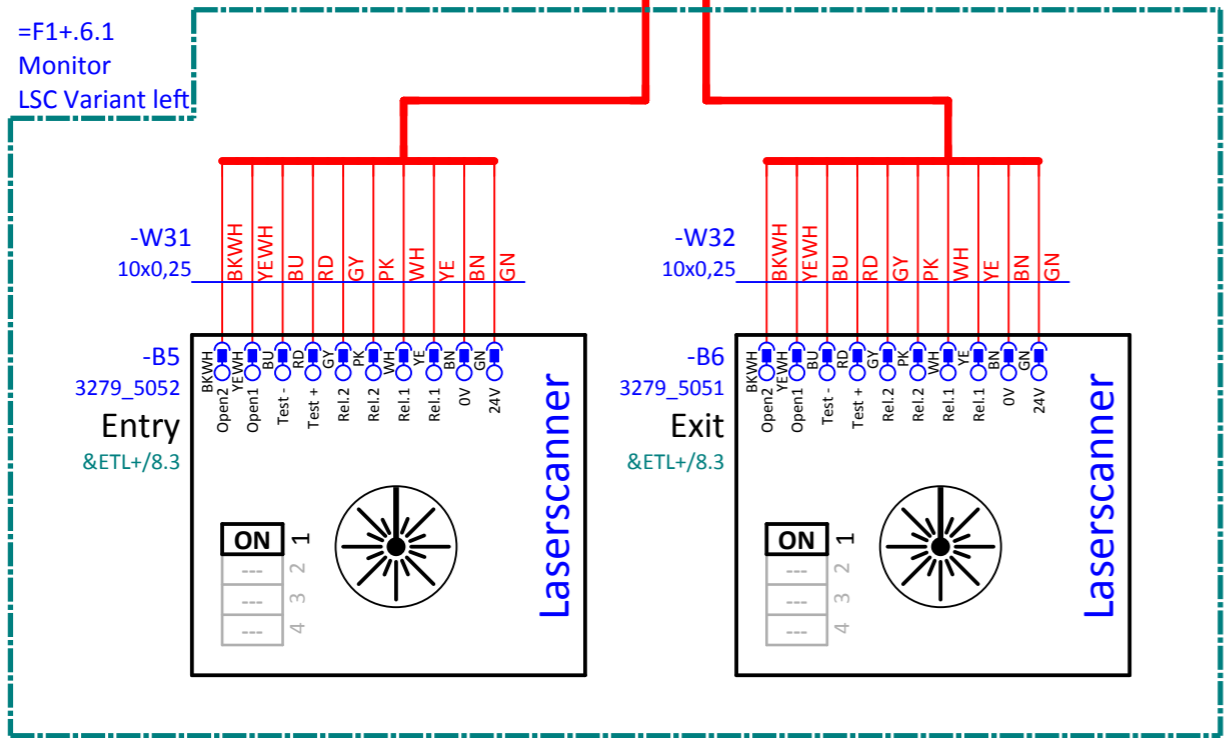
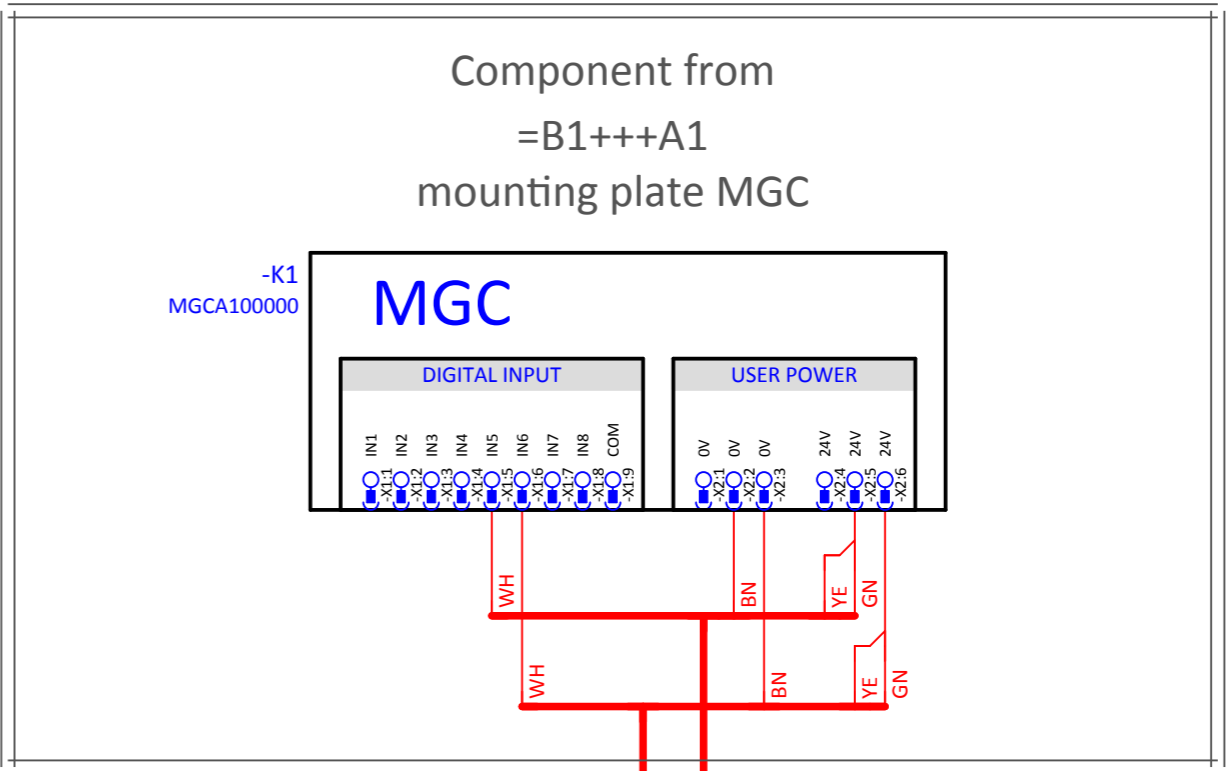
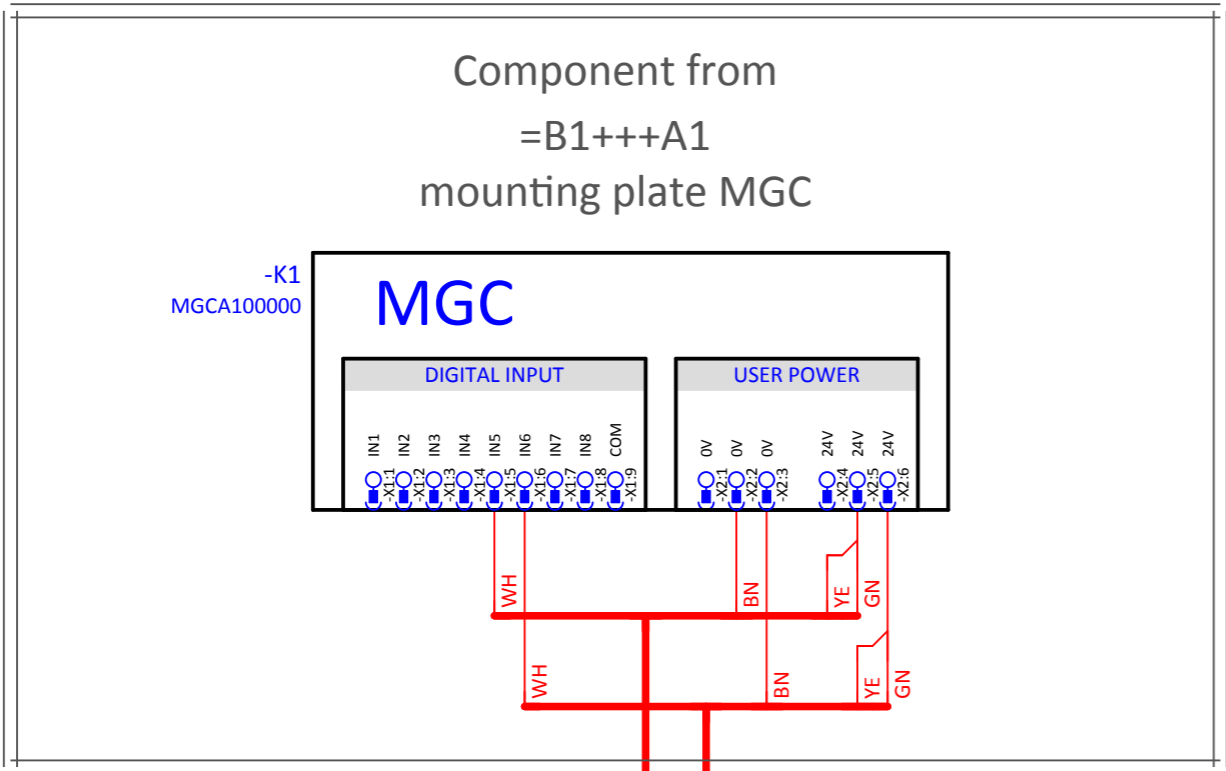
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options Pushbutton & Buzzer

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		Schematic
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**Note:** Sensors must not be connected to each other.

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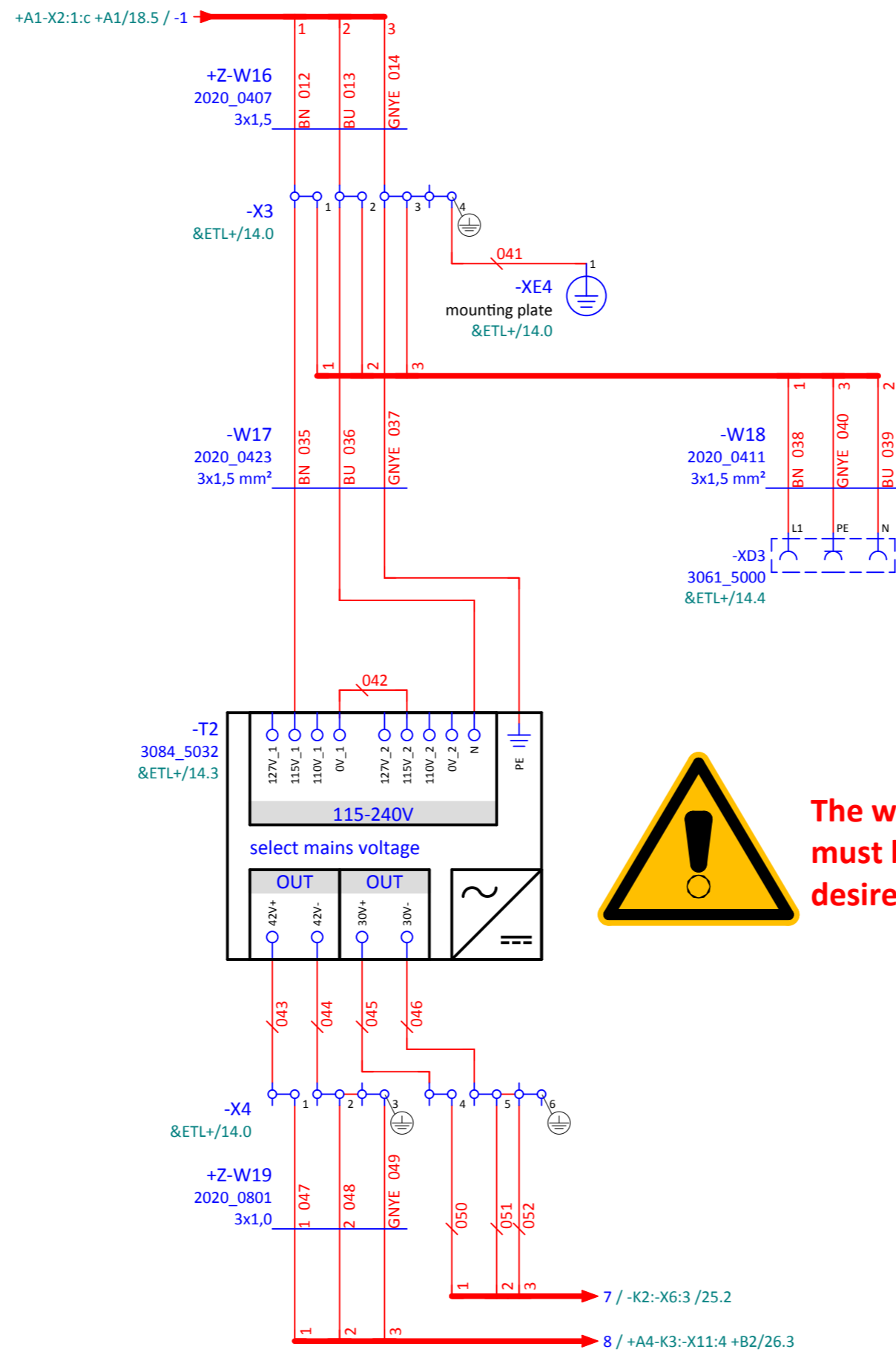
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options Laser scanner

=	++	& EFS
		Schematic
5527_0092	+ C	Page 23
	options	from





**The wire jumper of the transformer must be connected according to the desired mains voltage!**

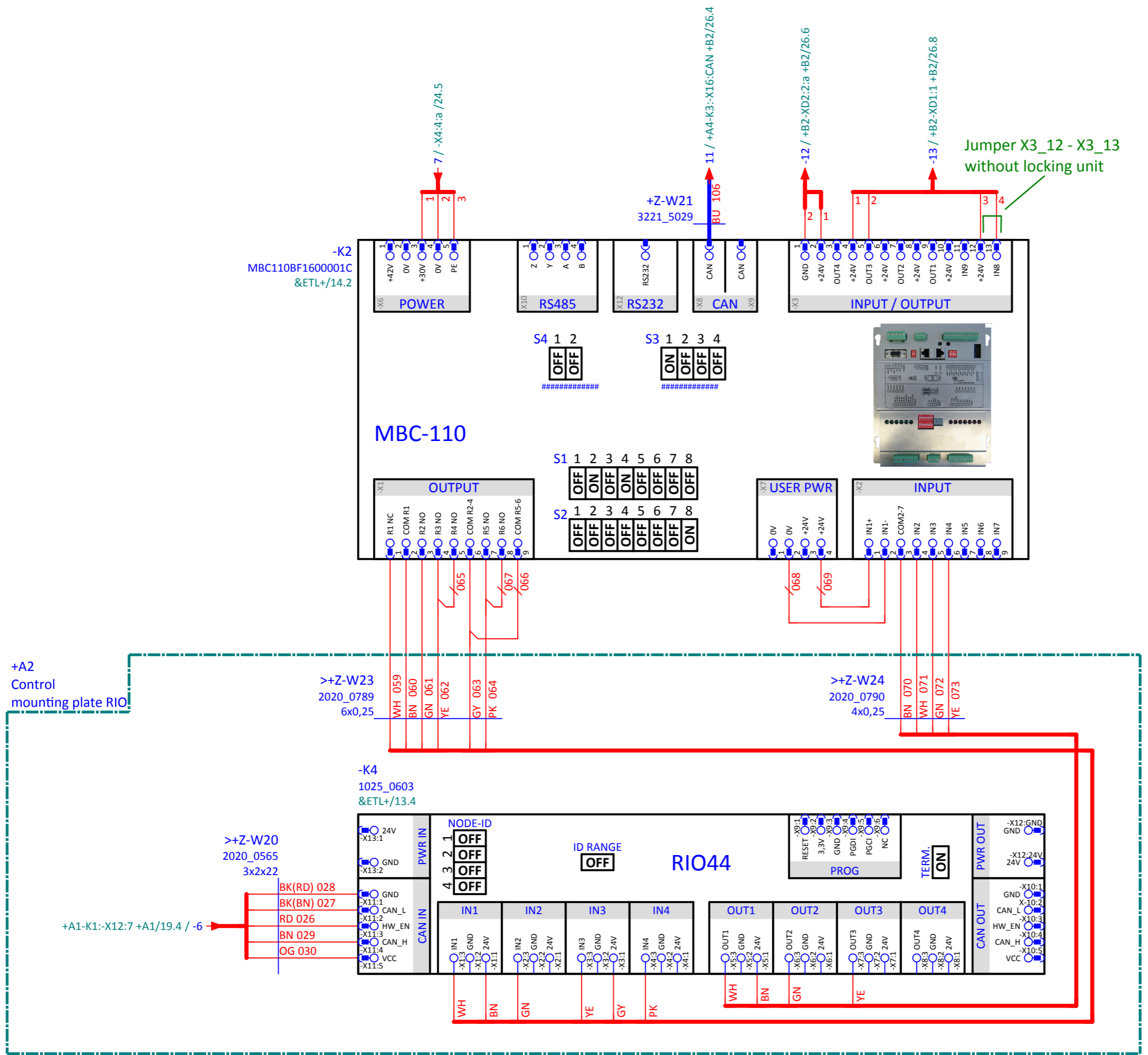
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mains supply

= A1	++	& EFS
Supply		Schematic
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	mounting plate MBC	from 31



### Contact assignment MBC-110

Contact	Functions / assignments
IN1+	Emergency / Emergency switch
IN1-	Emergency / Emergency switch
COM	common contact
IN2	open right (Clockwise)
IN3	open left (Counterclockwise)
IN4	close
IN5	Manual reset
IN6	Spare
IN7	Spare
R1	general error / Power failure
COM R1	common contact
R2	Revolving gate closed Position
R3	Display impact right
R4	Display impact left
COM 2-4	common contact
R5	count right
R6	count left
COM 5-6	common contact

### DIP-Switch S1

1	Spare
2	function Buzzer
3	Behavior after Voltage recovery
4	MPB - Mode
5	hold open time
6	hold open time
7	Version of the Software
8	Factory setting

### DIP-Switch S2

1	Heating active
2	Spare
3	Spare
4	Spare
5	Spare
6	Direction of rotation for Homing
7	Selection function of the Locking
8	Software-Reset

### Contact assignment RIO44

Contact	Functions / assignments
IN1	Revolving gate error
IN2	Revolving gate closed
IN3	impact right / left
IN4	count impulse right / left
OUT1	open right
OUT2	open left
OUT3	close
OUT4	n.c.

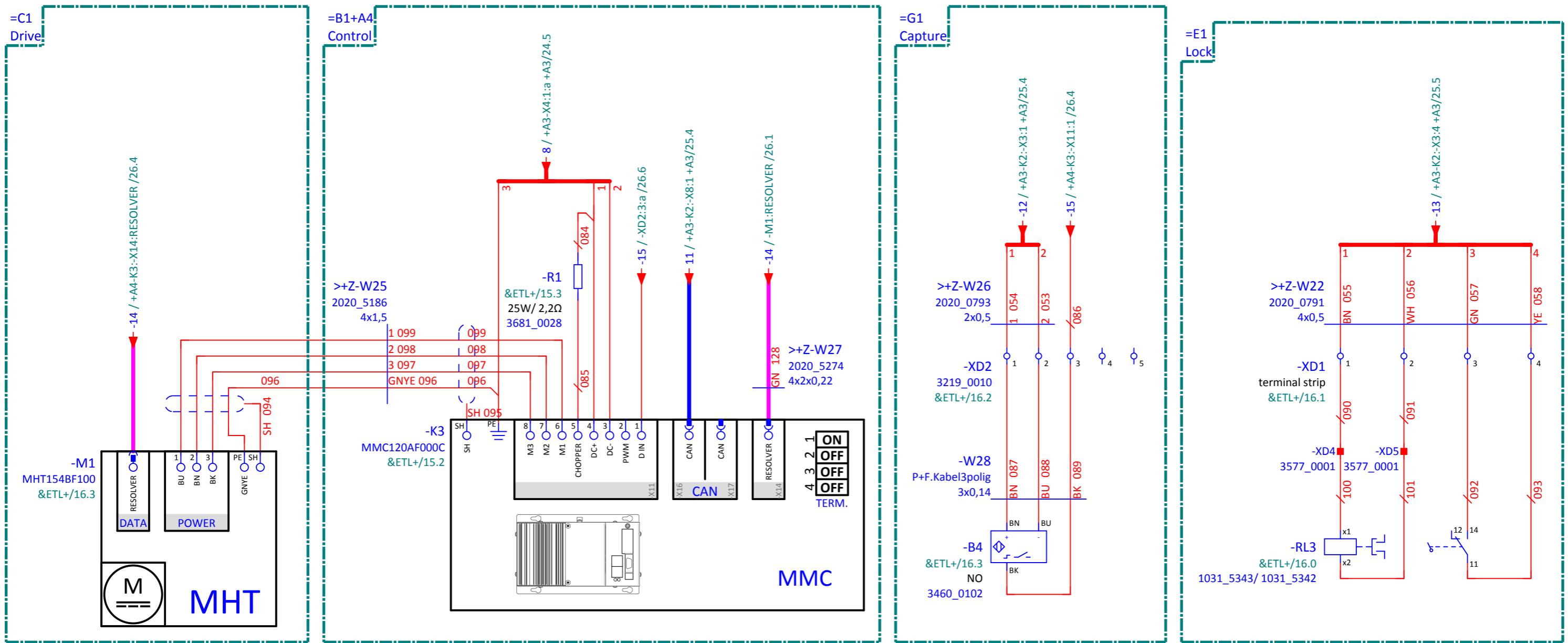
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controller

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Control		Schematic
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	mounting plate MBC	from



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Servo drive

= C1	++	& EFS
Drive		Schematic
5527_0092	+ B2	Page 26
	Drive + Locking Revolin	from 31

# Summarized parts list

Part number	Quantity	Designation	Device tag
<b>+C / +options</b>			
MGCA100000	4	MGC-A-100-0000	-K1

<b>=A1 +A1 / =Supply +mounting plate MGC</b>			
3460_0003	1	ABB Circuit breaker 2- pole 400V 16A	-S1
3084_0018	1	power supply unit 24V,5A,120W	-T1
2020_0529	1	Cable 3G1,5 mm <sup>2</sup>	-W1
3219_0084	1	3 Conductor Feed-through terminal grey	-X1
3219_0088	2	End clamp	-X1;-X2
3219_0085	1	3 Conductor Feed-through terminal blue	-X1
3219_0083	2	3 Conductor Protective conductor terminal	-X1
3219_0086	1	End plate 3 pole; orange	-X1
3219_0001	1	4 Conductor Feed-through terminal GY / TOPJOB S	-X2
3219_0002	1	4 Conductor Feed-through terminal BU / TOPJOB S	-X2
3219_0003	1	4 Conductor Protective conductor terminal GNYE / TOPJOB S	-X2
3219_0004	1	End plate TOPJOB S	-X2

<b>=A1 +A3 / =Supply +mounting plate MBC</b>			
3084_5032	1	Transformer 42V,4 A / 30V,2 A	-T2
2020_0423	1	Cable 3G1,5mm <sup>2</sup> , 800mm, stripped / end sleeve	-W17
2020_0411	1	Cable 3G1,5mm <sup>2</sup> , 830mm, stripped / end sleeve	-W18
3219_0084	5	3 Conductor Feed-through terminal grey	-X3;-X4
3219_0088	3	End clamp	-X3;-X4
3219_0085	1	3 Conductor Feed-through terminal blue	-X3
3219_0083	4	3 Conductor Protective conductor terminal	-X3;-X4
3219_0086	3	End plate 3 pole; orange	-X3;-X4
3219_0087	2	jumper	-X4
3061_5000	1	service socket 10A/250V for Mounting rail	-XD3

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parts list

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## Summarized parts list

Part number	Quantity	Designation	Device tag
<b>=A1 +Z / =Supply +Connection cable</b>			
2020_0407	1	Cable 3GG1,5mm² 1500mm stripped / stripped	-W16
2020_0801	1	Cable 3G1,0mm², 1100mm, stripped / end sleeve	-W19

<b>=B1 +A1 / =Control +mounting plate MGC</b>			
MGCA100000	1	MGC-A-100-0000	-K1
DM02	1	detector module MGC	-K1-KF1
1025_5141	1	MOSFET Modul / MFM01	-K1-KF2
2020_0528	1	Cable 2x0,5 mm², 400 mm MGC supply	-W2
2020_0786	1	Cable 2x0,5mm², 600mm, stripped / end sleeve	-W3

<b>=B1 +C.4.1 / =Control +options</b>			
3601_0002	2	Illuminated pushbutton blue	-S2;-S3
2020_0794	2	Cable 4x0,25mm², 3000mm, end sleeve / end sleeve	-W8;-W9

<b>=B1 +C.4.2 / =Control +options</b>			
3601_0002	2	Illuminated pushbutton blue	-S4;-S5
2020_0794	2	Cable 4x0,25mm², 3000mm, end sleeve / end sleeve	-W29;-W30

<b>=B1 +A2 / =Control +mounting plate RIO</b>			
1025_0603	1	RIO44 Remote IO	-K4

<b>=B1 +A3 / =Control +mounting plate MBC</b>			
MBC110BF1600001C	1	MBC110BF1600001C	-K2

<b>=B1 +A4 / =Control +mounting plate MMC</b>			
MMC120AF000C	1	MMC-120A-F000C	-K3
3681_0028	1	Resistor 25W/ 2,2OHM ALU	-R1

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## Summarized parts list

Part number	Quantity	Designation	Device tag
<b>=B1 +Z / =Control +Connection cable</b>			
2020_0565	1	CAN-cable MV100 to MGC (0,4m) / UL	-W20
3221_5029	1	patch cable 1 m	-W21
2020_0789	1	Cable 6x0,25mm <sup>2</sup> , 1400mm, stripped / end sleeve	-W23
2020_0790	1	Cable 4x0,25mm <sup>2</sup> , 1600mm, stripped / end sleeve	-W24
2020_5186	1	Motor cable orange 1480 mm	-W25
2020_5274	1	resolver cable	-W27

<b>=C1 +B2 / =Drive +Drive + Locking Revolving gate</b>			
MHT154BF100	1	Motor with Gearing	-M1

<b>=D1 +C.1 / =Light +options</b>			
3460_5051	1	Twilight switch LUNA 128 star	-B3
3278_5121	2	LED moisture-proof light	-E1;-E2
3061_0007	1	junction box	-U1
3219_5038	3	Connecting terminal 3 Conductor	-U1-XD1;-U1-XD2;-U1-XD4
3219_5036	1	Connecting terminal 5 Conductor	-U1-XD3
2020_0795	2	Cable 3x1,0mm <sup>2</sup> , 2000mm, stripped / Wire end sleeves	-W12;-W15
2020_0796	1	Cable 3x0,75mm <sup>2</sup> (BN/BK/BU) 1000mm end sleeve / end sleeve	-W13
2020_0797	1	Cable 3x1,0mm <sup>2</sup> , 2500mm, stripped / Wire end sleeves	-W14

<b>=D1 +C.2 / =Light +options</b>			
3278_5121	2	LED moisture-proof light	-E1;-E2
3061_0007	1	junction box	-U1
3219_5038	3	Connecting terminal 3 Conductor	-U1-XD1...-U1-XD3
2020_0795	2	Cable 3x1,0mm <sup>2</sup> , 2000mm, stripped / Wire end sleeves	-W12;-W15
2020_0797	1	Cable 3x1,0mm <sup>2</sup> , 2500mm, stripped / Wire end sleeves	-W14

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## Summarized parts list

Part number	Quantity	Designation	Device tag
<b>=E1 +B1 / =Lock +Locking Turnstile</b>			
MGCA100000	1	MGC-A-100-0000	-K1
1025_5141	1	MOSFET Modul / MFM01	-KF2
3302_0018	2	High performance single stroke solenoid with return spring	-RL1;-RL2
KEN.Kabel2polig	2	Cable for solenoid MPT	-W4;-W5

<b>=E1 +B2 / =Lock +Drive + Locking Revolving gate</b>			
1031_5343/ 1031_5342	1	Locking MPT/ MPG	-RL3
3274_0001	1	terminal strip	-XD1
3577_0001	2	Splices RD 0,35-1,5MM² AWG 22-16	-XD4;-XD5

<b>=E1 +Z / =Lock +Connection cable</b>			
2020_0791	1	Cable 4x0,5mm², 1150mm, end sleeve / end sleeve	-W22

<b>=F1 +C.6.1 / =Monitor +options</b>			
3279_5052	1	Laser scanner flat for Door monitoring / Bea FLATSCAN SW LEFT BLK	-B5
3279_5051	1	Laser scanner flat for Door monitoring / Bea FLATSCAN SW RIGHT BLK	-B6
	2	Sensor cable 10 pole for Laser scanner Flatscan	-W31;-W32

<b>=F1 +C.6.2 / =Monitor +options</b>			
3279_5052	1	Laser scanner flat for Door monitoring / Bea FLATSCAN SW LEFT BLK	-B5
3279_5051	1	Laser scanner flat for Door monitoring / Bea FLATSCAN SW RIGHT BLK	-B6
	2	Sensor cable 10 pole for Laser scanner Flatscan	-W31;-W32

<b>=G1 +B1 / =Capture +Locking Turnstile</b>			
3460_5060	1	Proximity sensor, NC contact	-B1
3460_0102	1	Proximity switch (NO contact)	-B2
P+F.Kabel3polig	2	Cable for inductive Proximity switch	-W6;-W7

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## Summarized parts list

Part number	Quantity	Designation	Device tag
<b>=G1 +B2 / =Capture +Drive + Locking Revolving gate</b>			
3460_0102	1	Proximity switch (NO contact)	-B4
P+F.Kabel3polig	1	Cable for inductive Proximity switch	-W28
3219_0010	1	2 Conductor Terminal strip; 5 pole	-XD2

<b>=G1 +Z / =Capture +Connection cable</b>			
2020_0793	1	Cable 2x0,5mm <sup>2</sup> , 1500mm, end sleeve / end sleeve	-W26

<b>=I1 +C.3 / =Inform / visualize +options</b>			
1025_5065	2	GED	-P2;-P3
2020_0787	1	Cable 4x0,25mm <sup>2</sup> , 750mm, end sleeve / end sleeve	-W10
2020_0788	1	Cable 4x0,25mm <sup>2</sup> , 500mm, end sleeve / end sleeve	-W11

<b>=I1 +C.5 / =Inform / visualize +options</b>			
3278_0043	1	Acoustic signal transmitter, piezo buzzer 85dB	-P1
3577_5000	2	Splices YE 0,1-0,5mm <sup>2</sup>	-XD1;-XD2

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