

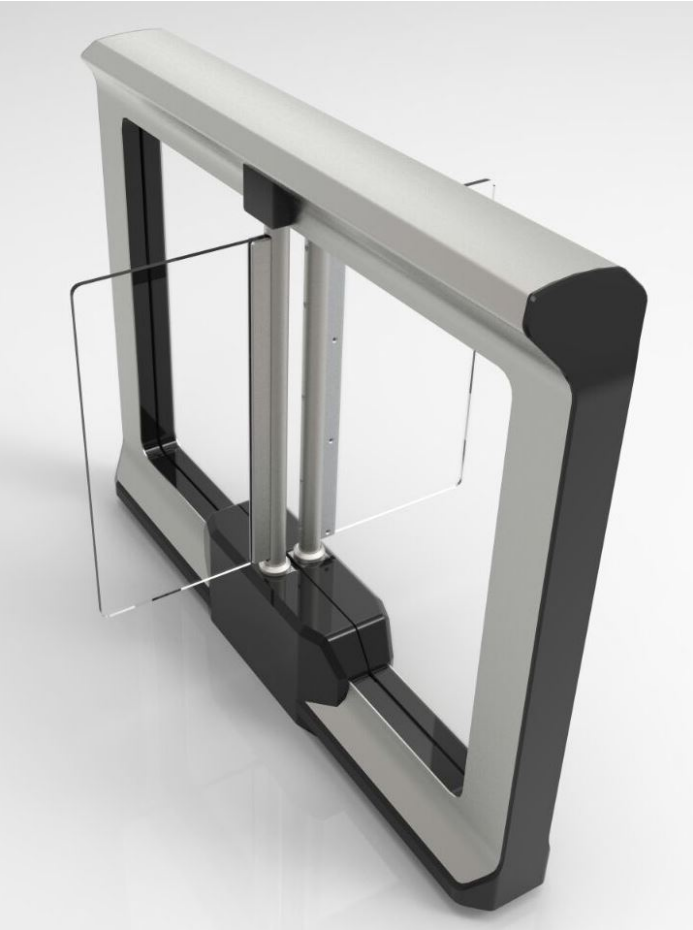
Document number

5527_0014

Type

wiring diagram mWing with options

mWing



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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19	options	02.12.2019	TO	
++B =D1 +BOLED102 End module ,Light ,Floor lighting				
20	BOLED	02.12.2019	TO	
++A =A1 +STD Base module ,Supply ,Default				
21	supply slave	02.12.2019	TO	

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	23	light barriers transmitter	02.12.2019	TO
++A =I1 +STD Base module ,Inform / visualize ,Default				
	24	options	02.12.2019	TO
	25	options	02.12.2019	TO
++A =D1 +BOLED102 Base module ,Light ,Floor lighting				
	26	BOLED	02.12.2019	TO
	27	BOLED	02.12.2019	TO
	28	Parts list	02.12.2019	TO
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Structure identifier overview

Structure identifier	Labeling	Structure description
=A1	Higher-level function	Supply
=B1	Higher-level function	Control
=C1	Higher-level function	Drive
=D1	Higher-level function	Light
=E1	Higher-level function	Lock
=F1	Higher-level function	Monitor
=G1	Higher-level function	Capture
=H1	Higher-level function	Communicate
=I1	Higher-level function	Inform / visualize

++B	Installation site	End module
++A	Installation site	Base module
++C	Installation site	Center module
++Z	Installation site	Connection cable

&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

+STD	Mounting location	Default
+VE107	Mounting location	Supply unit

Structure identifier	Labeling	Structure description
+BOLED102	Mounting location	Floor lighting
+RLED102	Mounting location	Frame lighting
+GEDEXT100	Mounting location	Passage indicator external
+DLED100	Mounting location	Light for random generator
+ESU0102	Mounting location	Buzzer
+GED100	Mounting location	Passage indicator
+DT100	Mounting location	illuminated push button

single and multiple passage

A_Module
(base module)

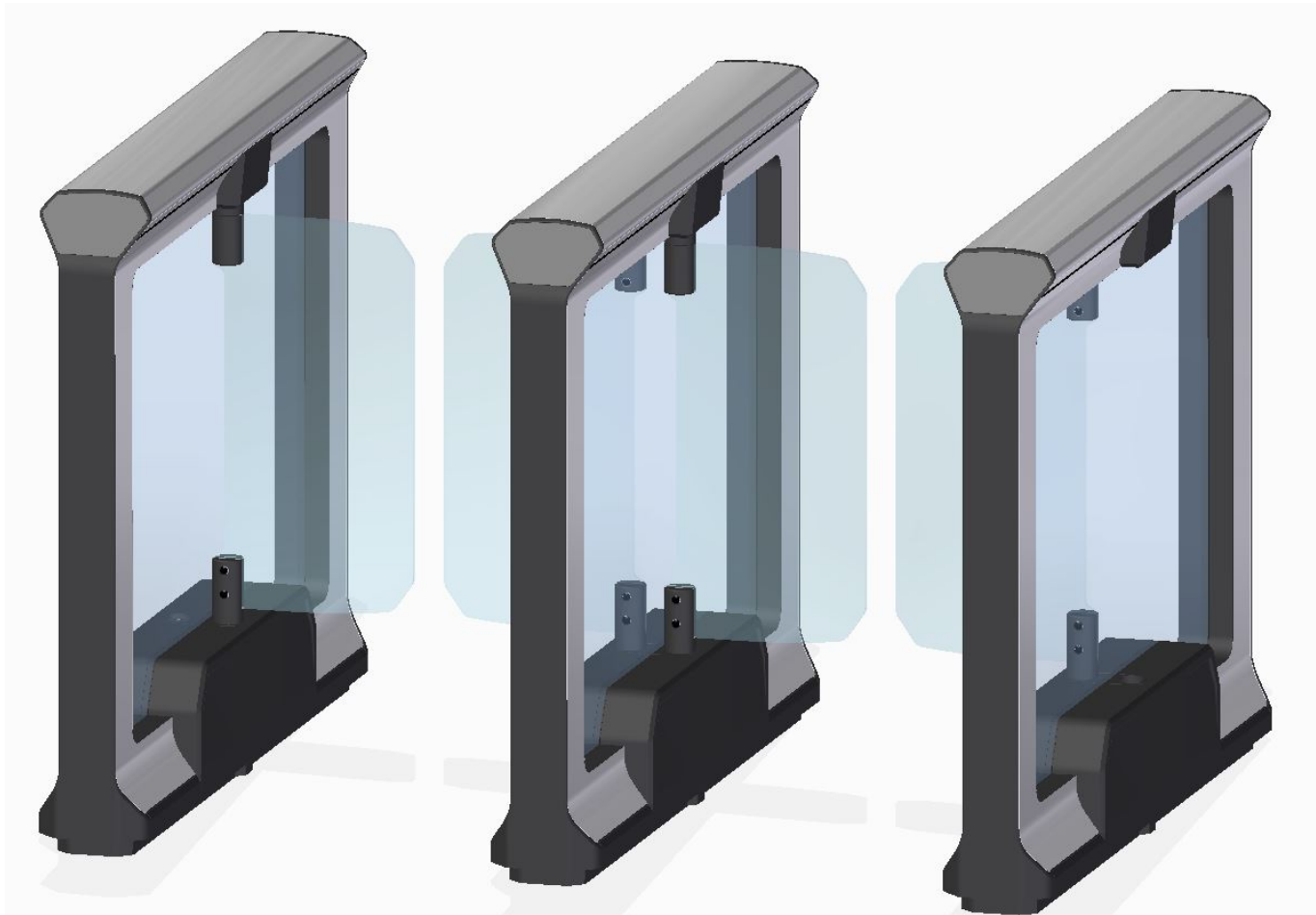
B-module
(end module)



A_Module
(base module)

C-module
(center module)

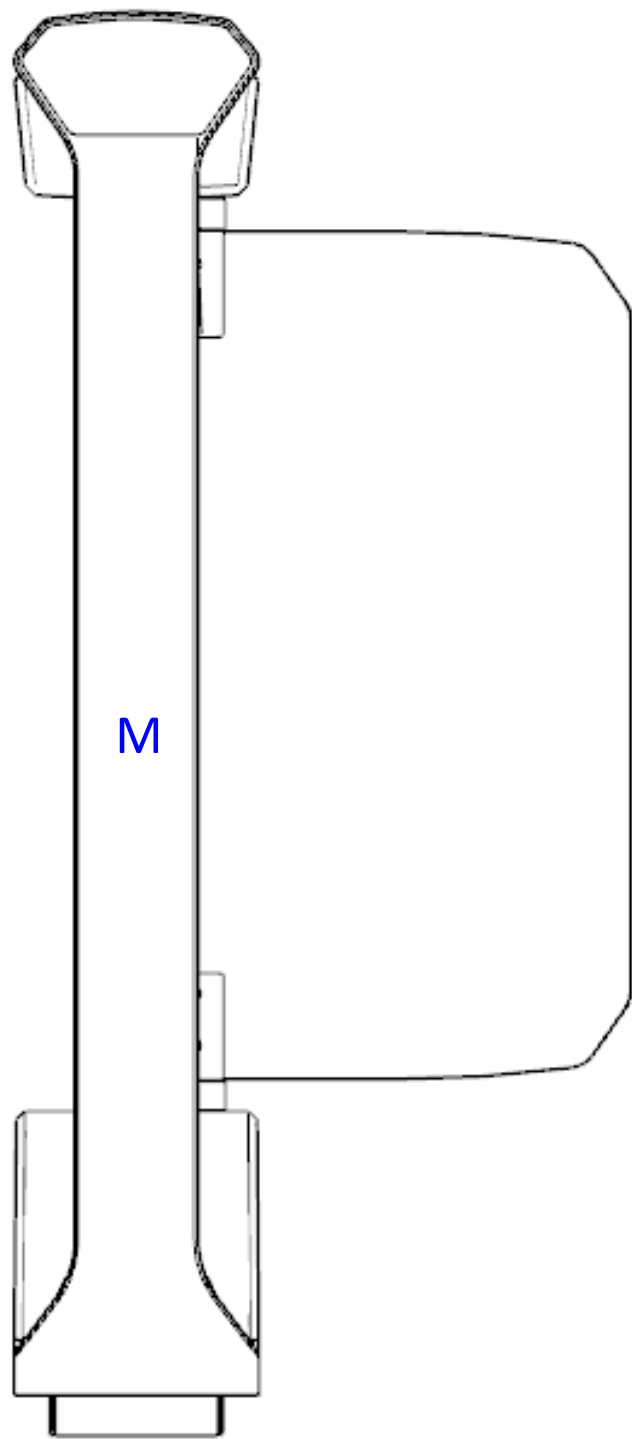
B-module
(end module)



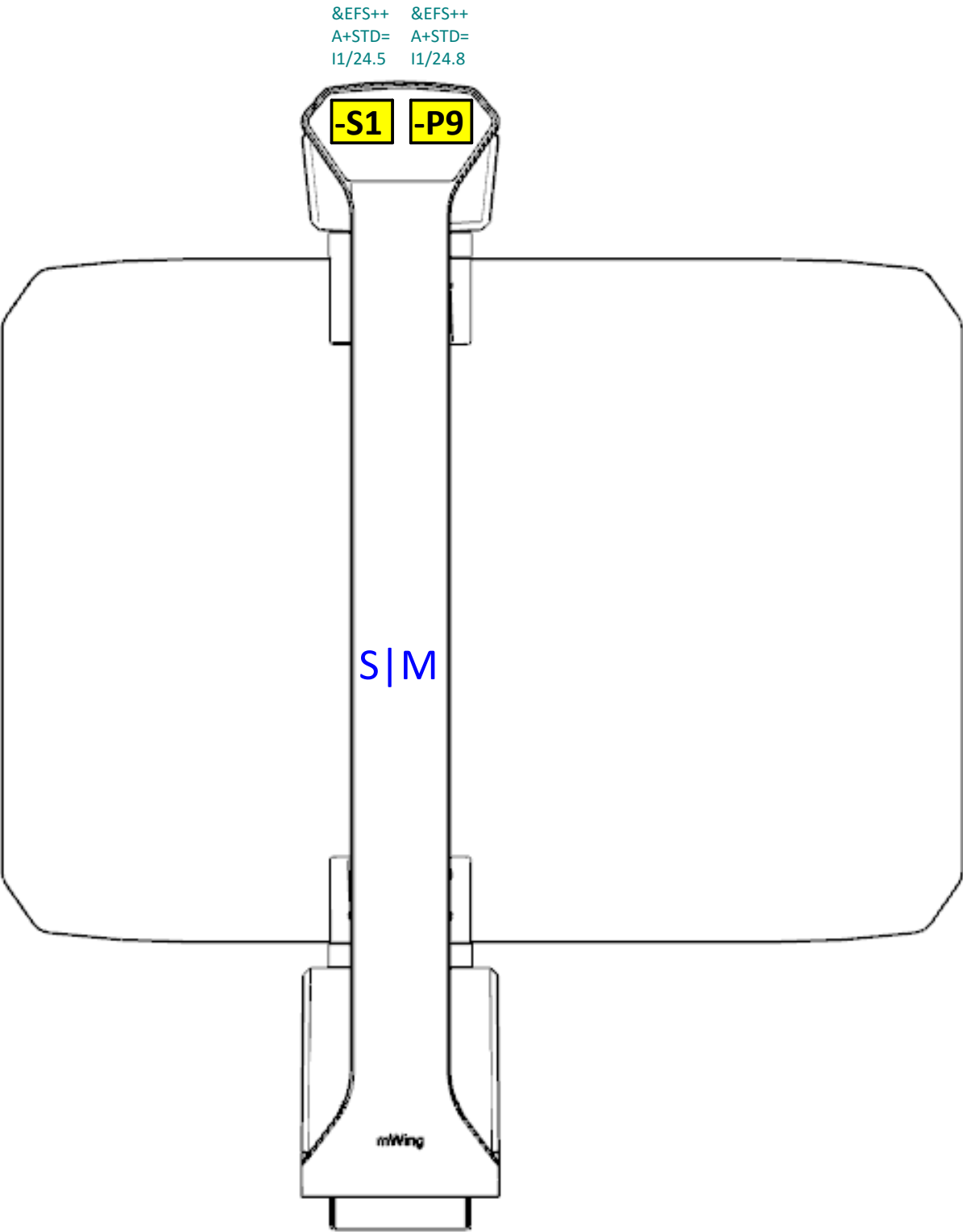
- information:**
- 1. The scheme is applicable for single pass as well as for multiple passes.
 - 2. A single pass always consists of a base module and an end module.
 - 3. A multiple pass always consists of a base and end module and any number of intermediate modules.
 - 4. Intermediate modules are to be considered in the diagram as end modules, with the exception of the separate wiring of the floor lighting

side 1 --> side 2

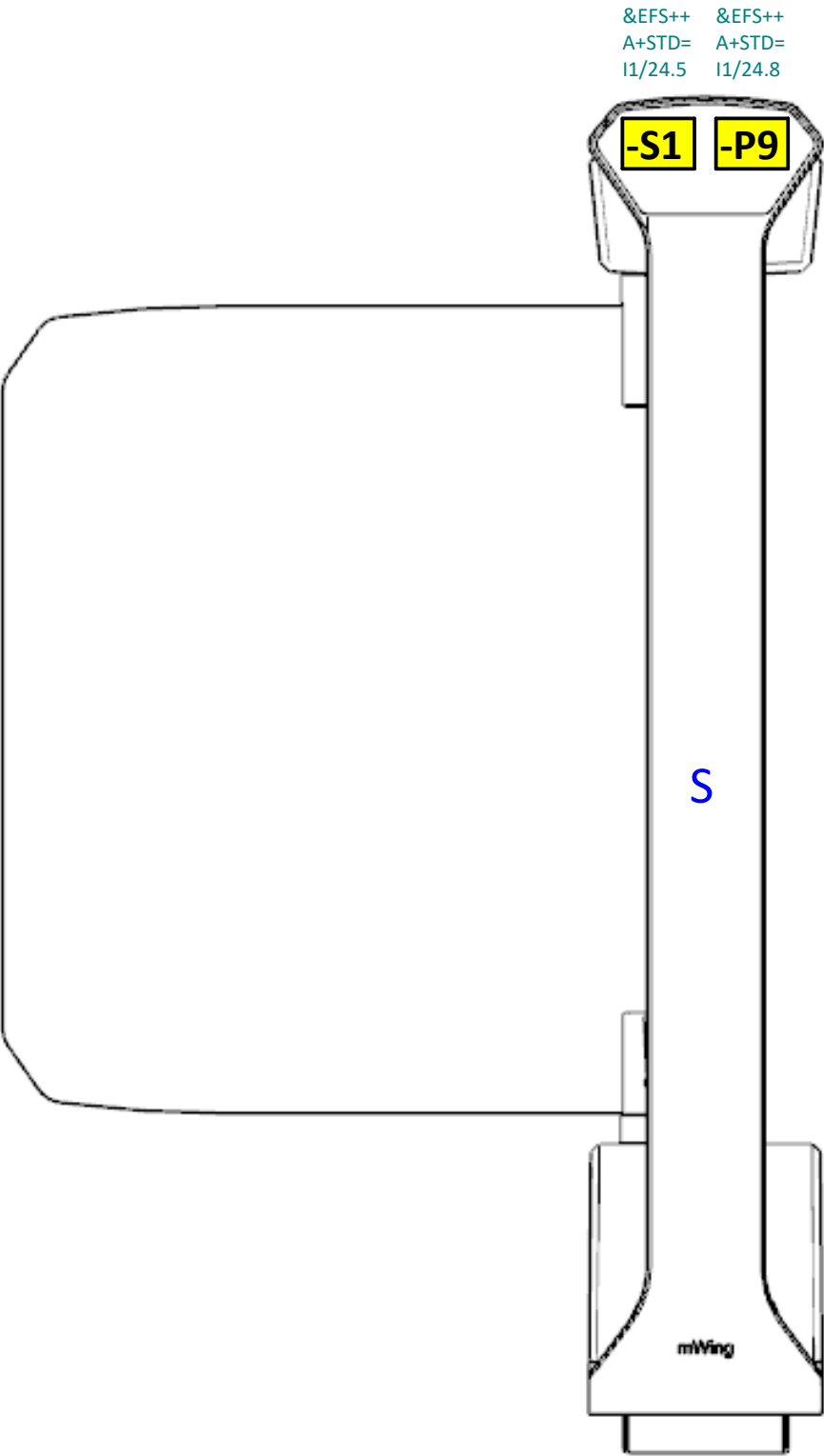
B-module
(end module)



C-module
(center module)



A-module
(base module)

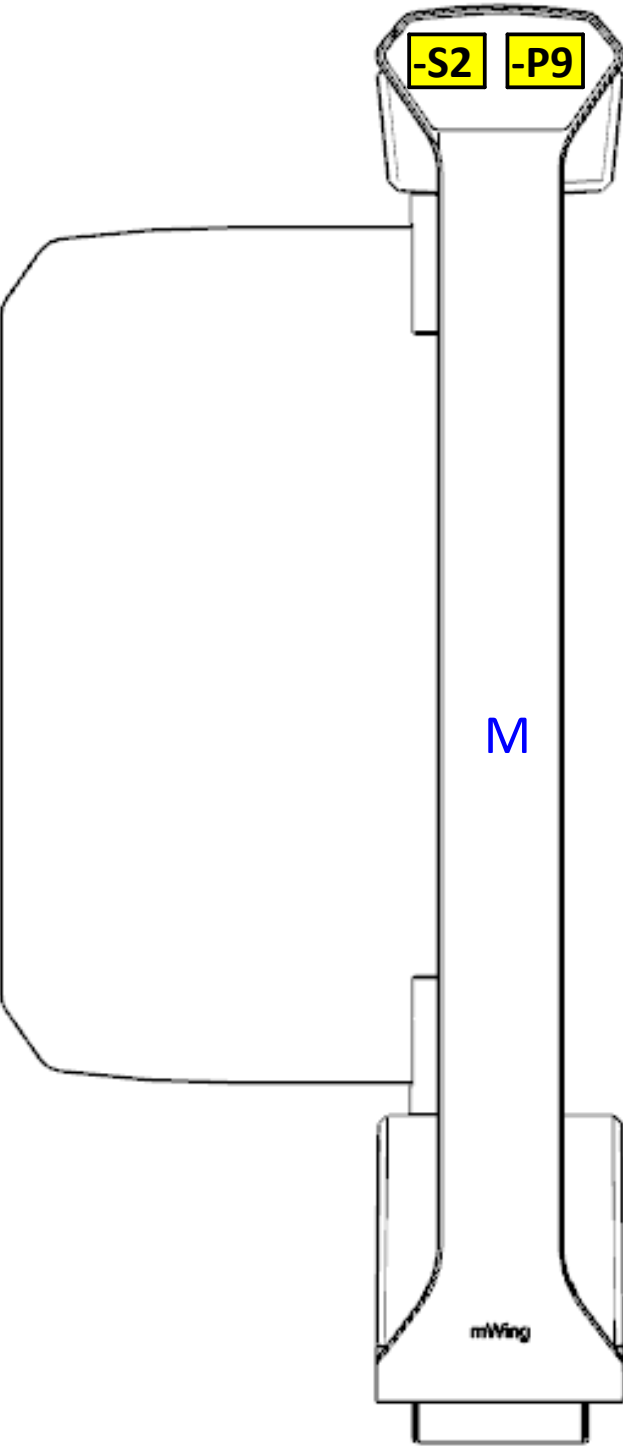
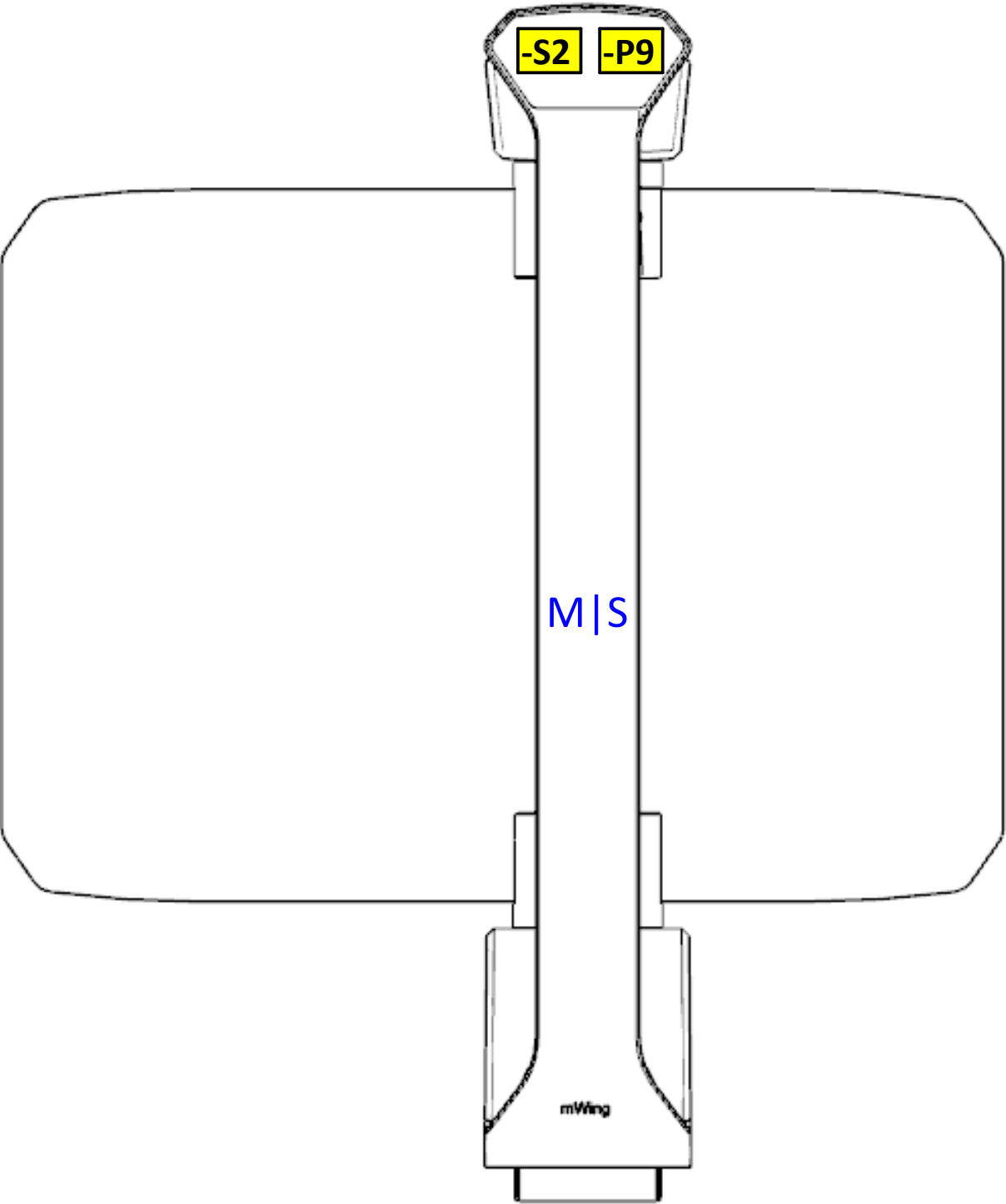
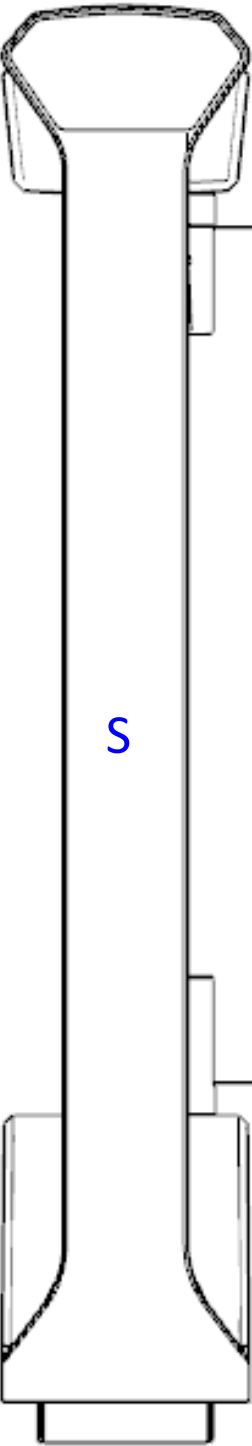


side 2 --> side 1

A-module
(base module)

C-module
(center module)

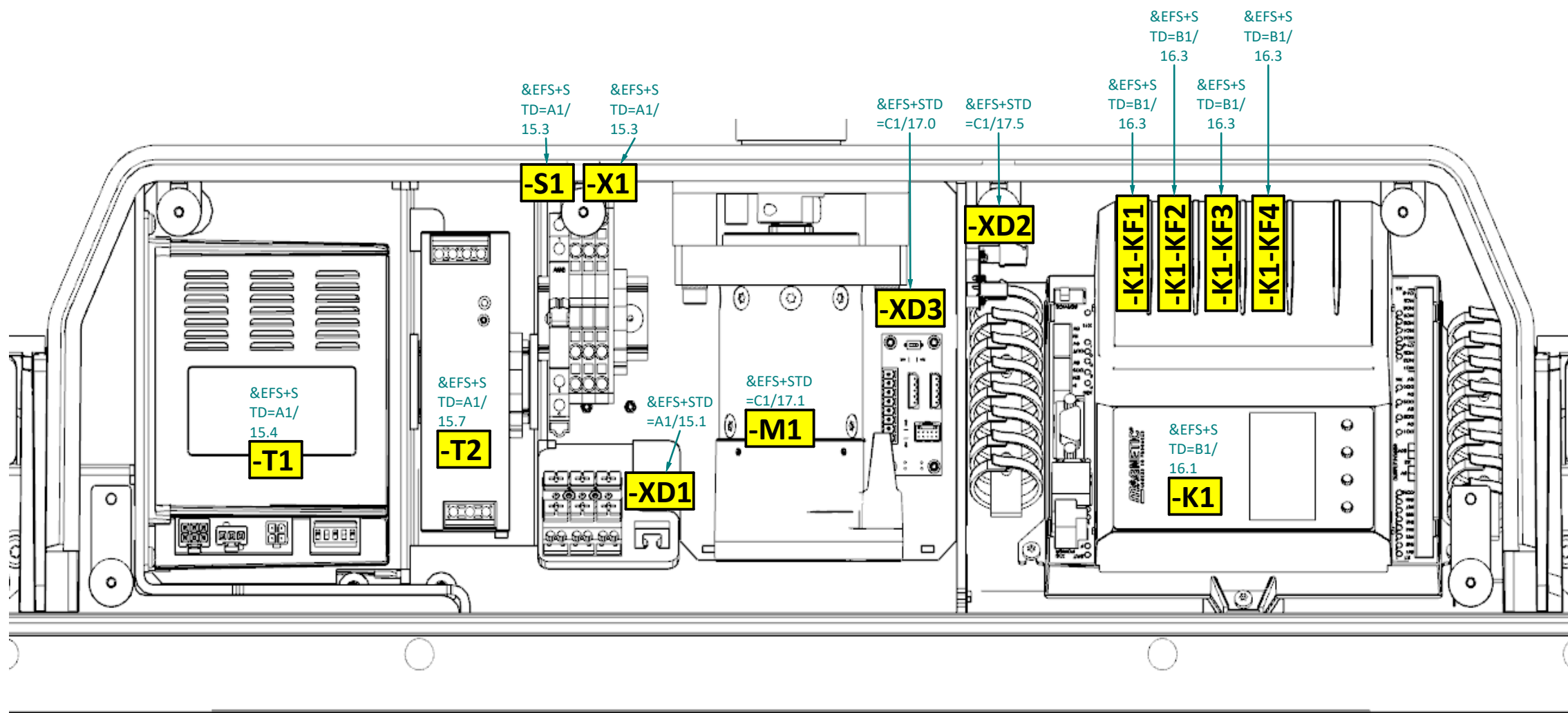
B-module
(end module)





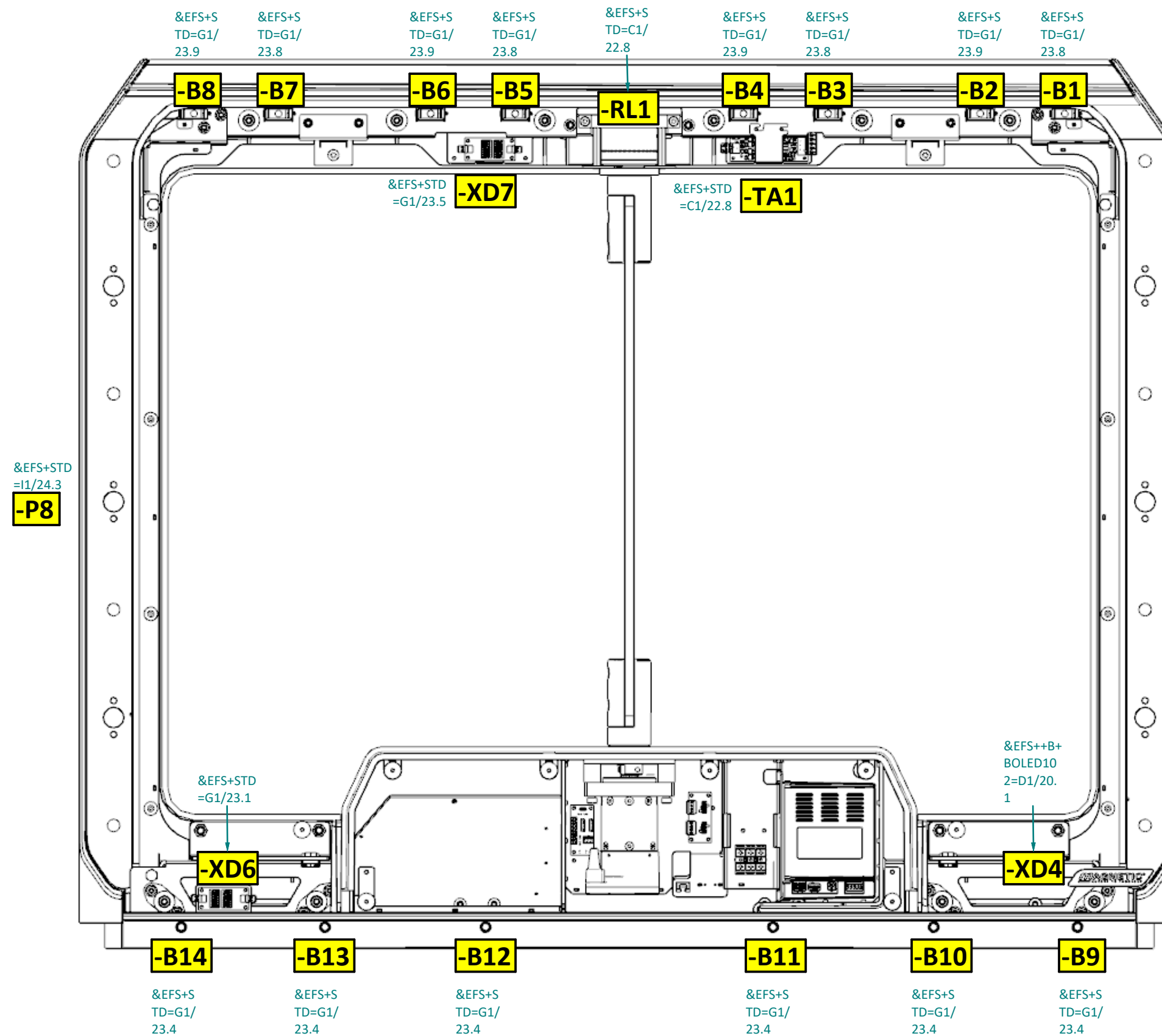
=	++ B	& ETL
	End module	Overview / Layout
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Side 1



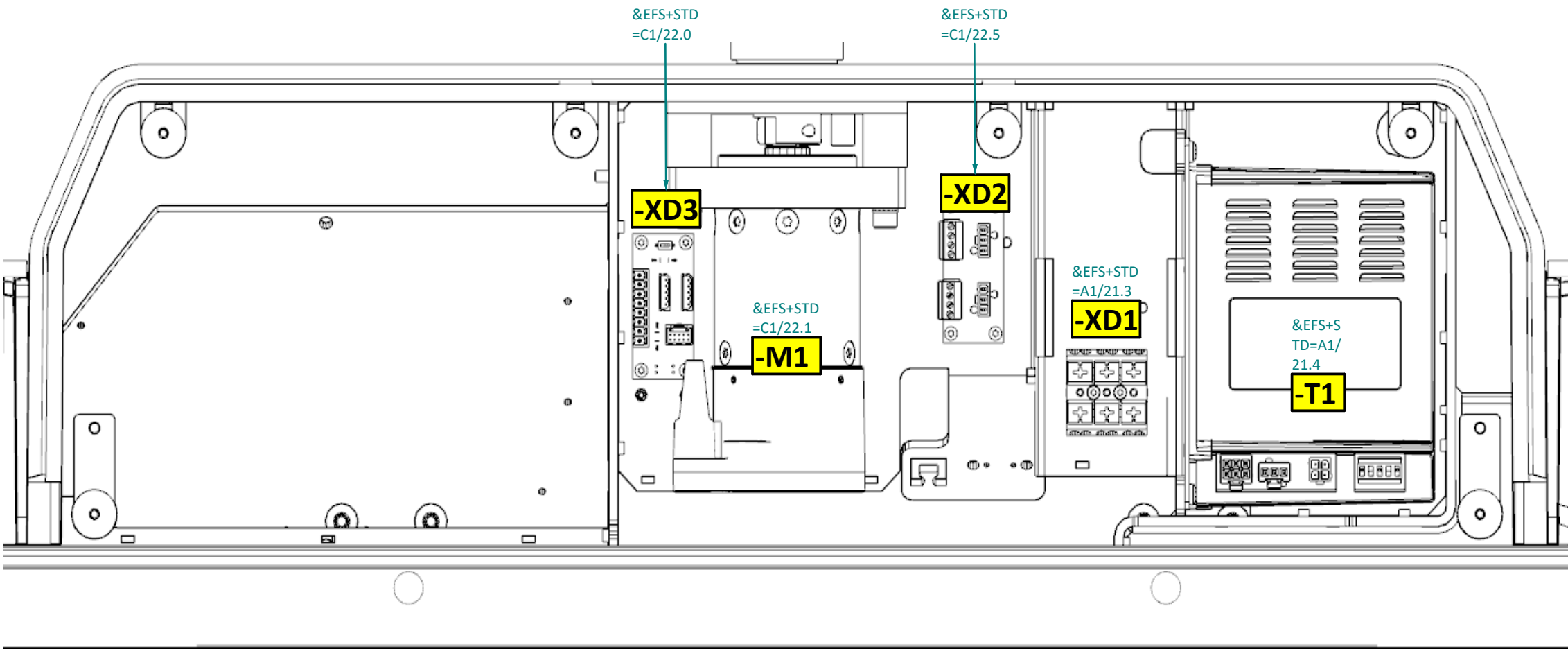
Side 2

Side 2



Side 1

Side 2



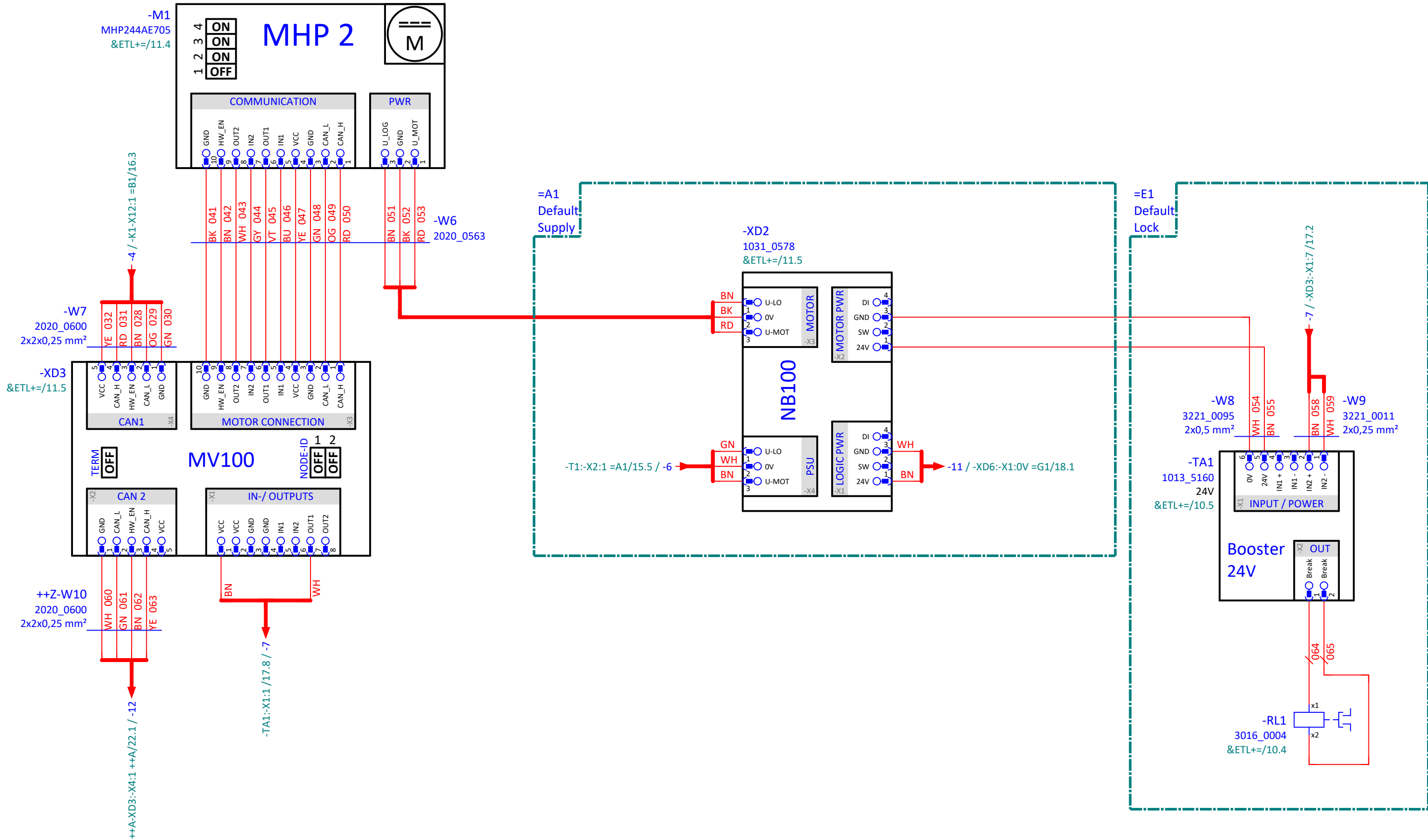
Side 1

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=	++ A	& ETL
	Base module	Overview / Layout
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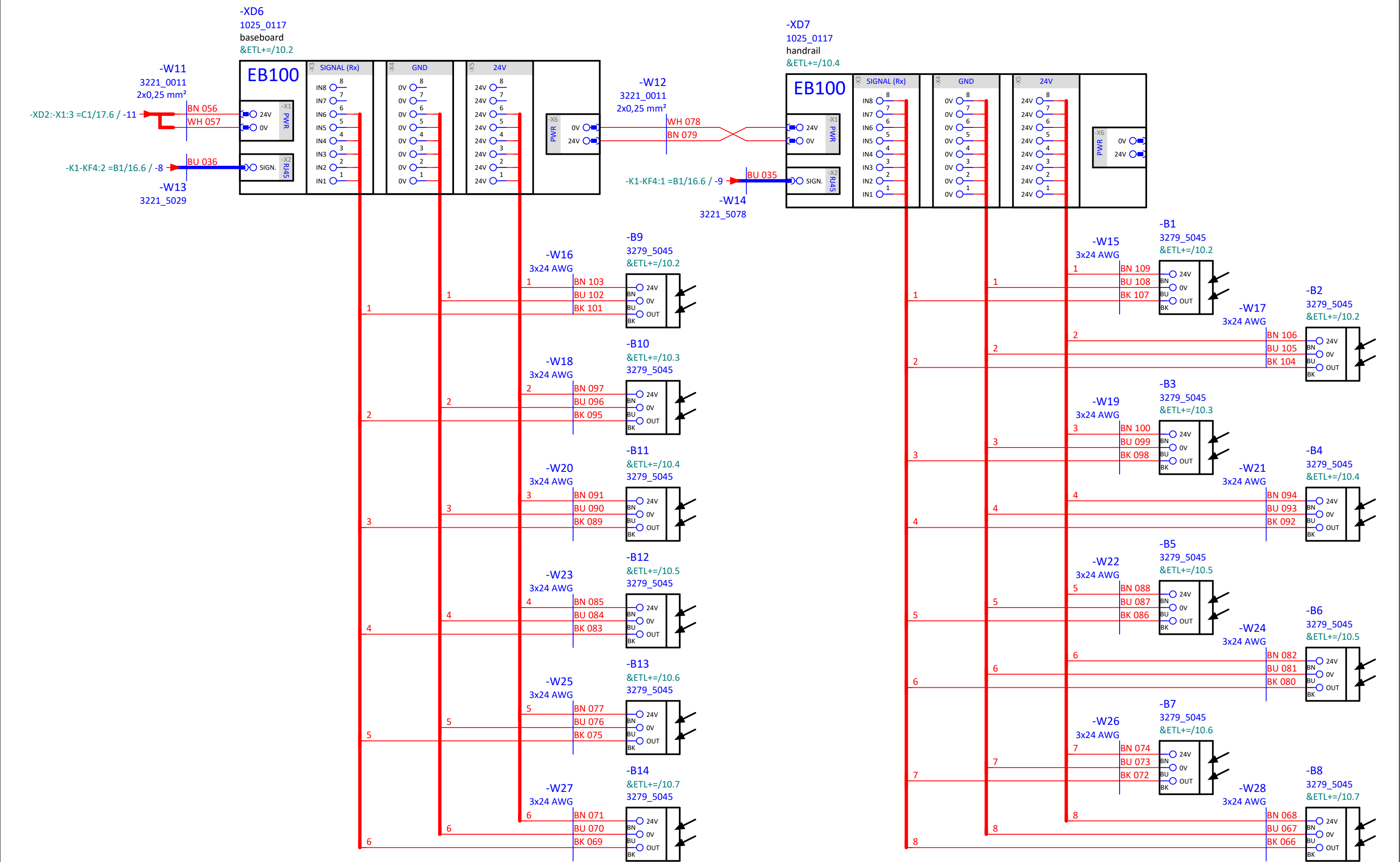
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5527_0014 mWing

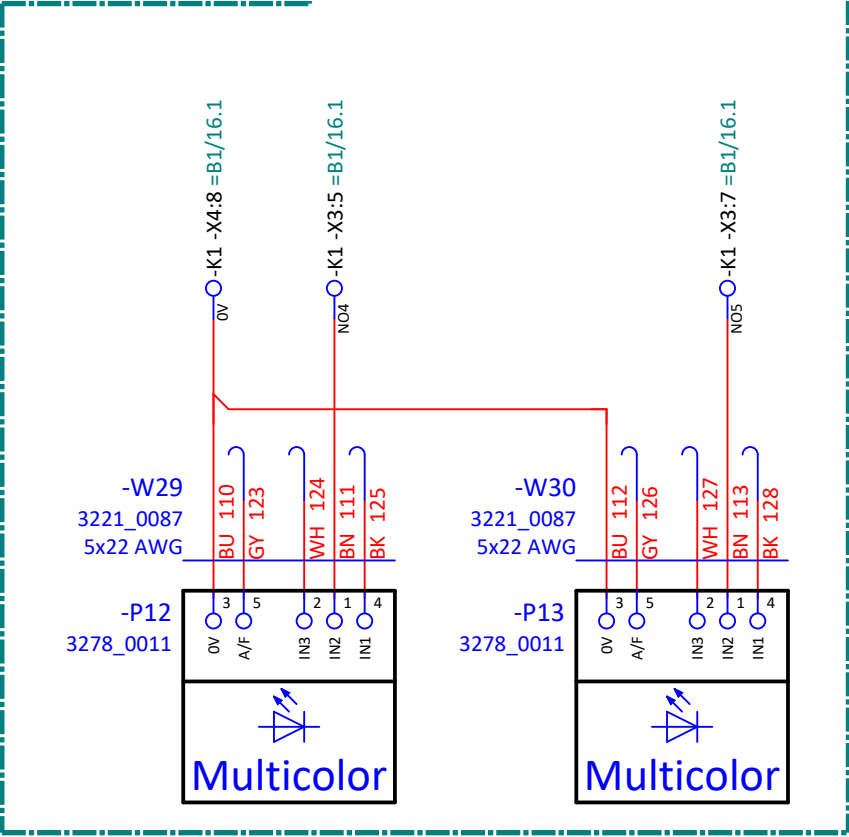
www.TURNSTILES.us

Drive and Locking

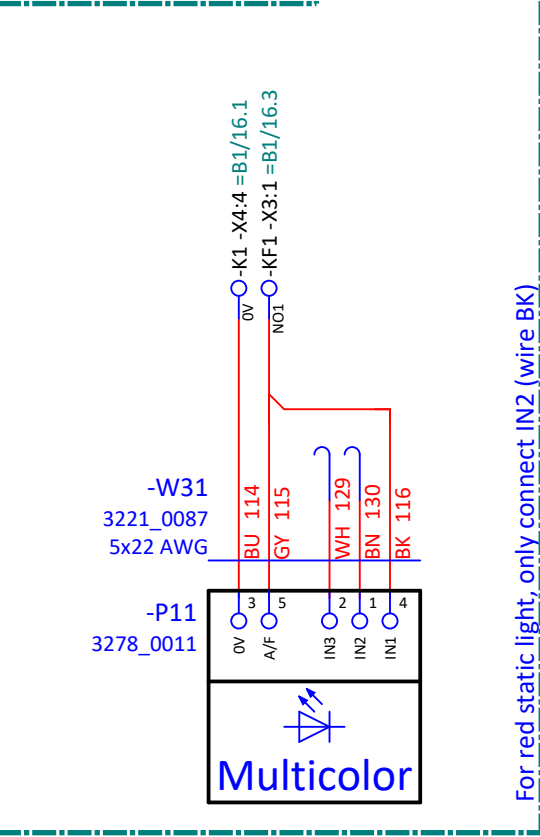
= C1	++ B	& EFS
Drive	End module	Schematic
5527_0014	+ STD	Page 17
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+GEDEXT100
Passage indicator external
Inform / visualize

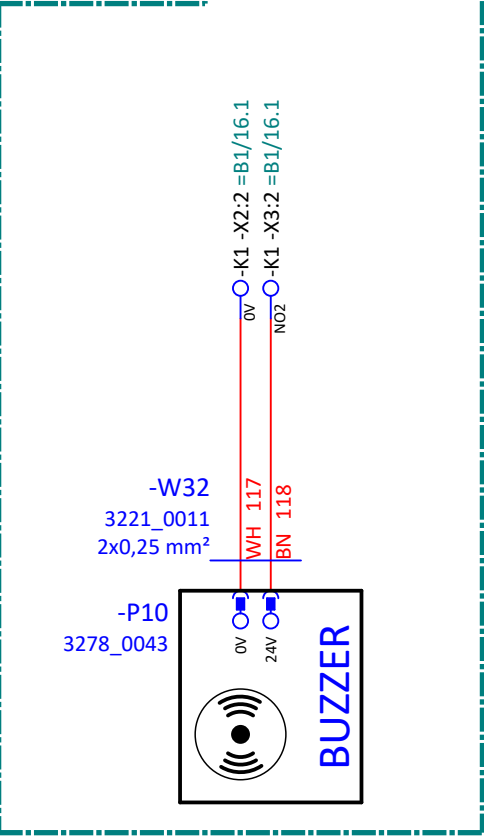


+DLED100
Light for random generator
Inform / visualize

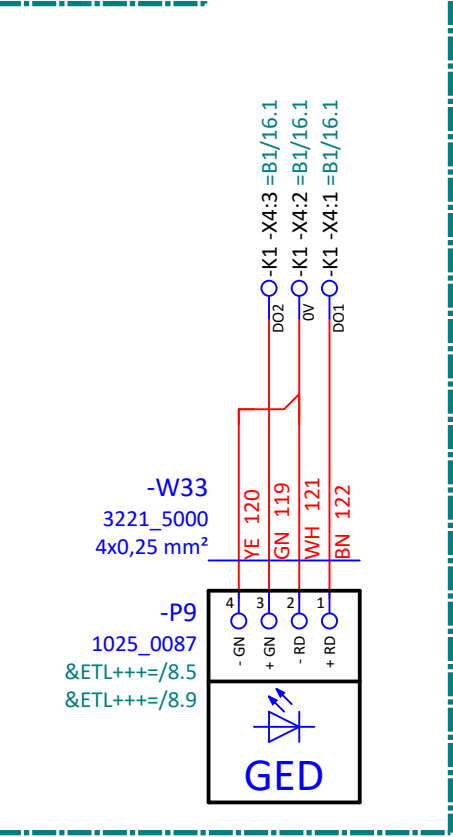


For red static light, only connect IN2 (wire BK)

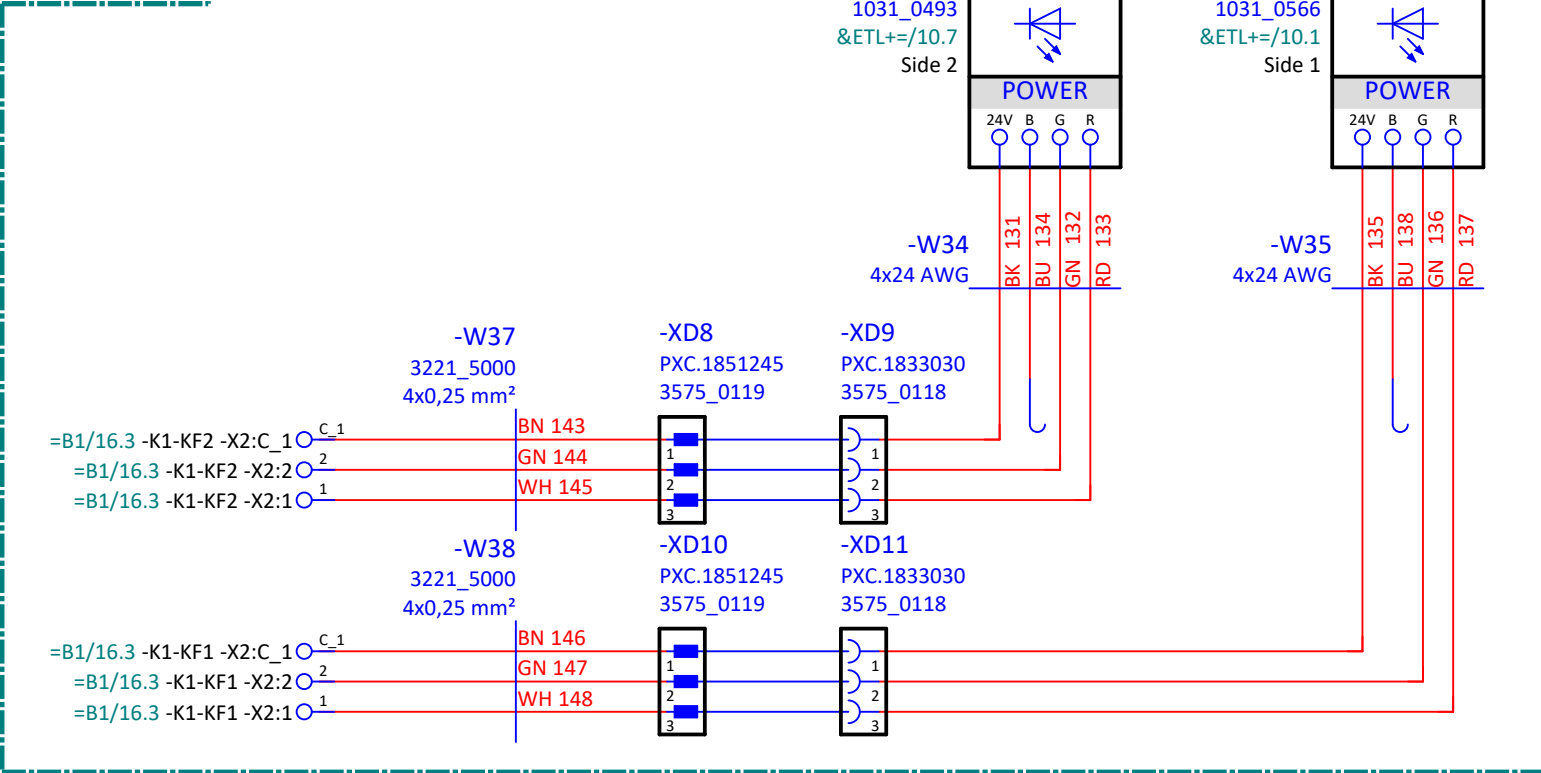
+ESU0102
Buzzer
Inform / visualize



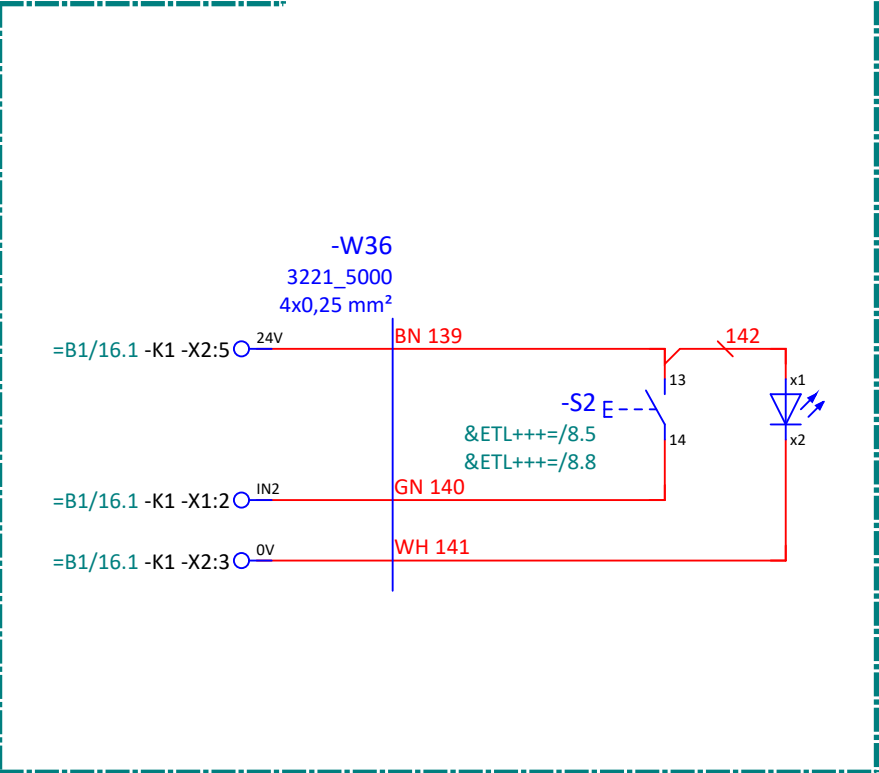
+GED100
Passage indicator
Inform / visualize

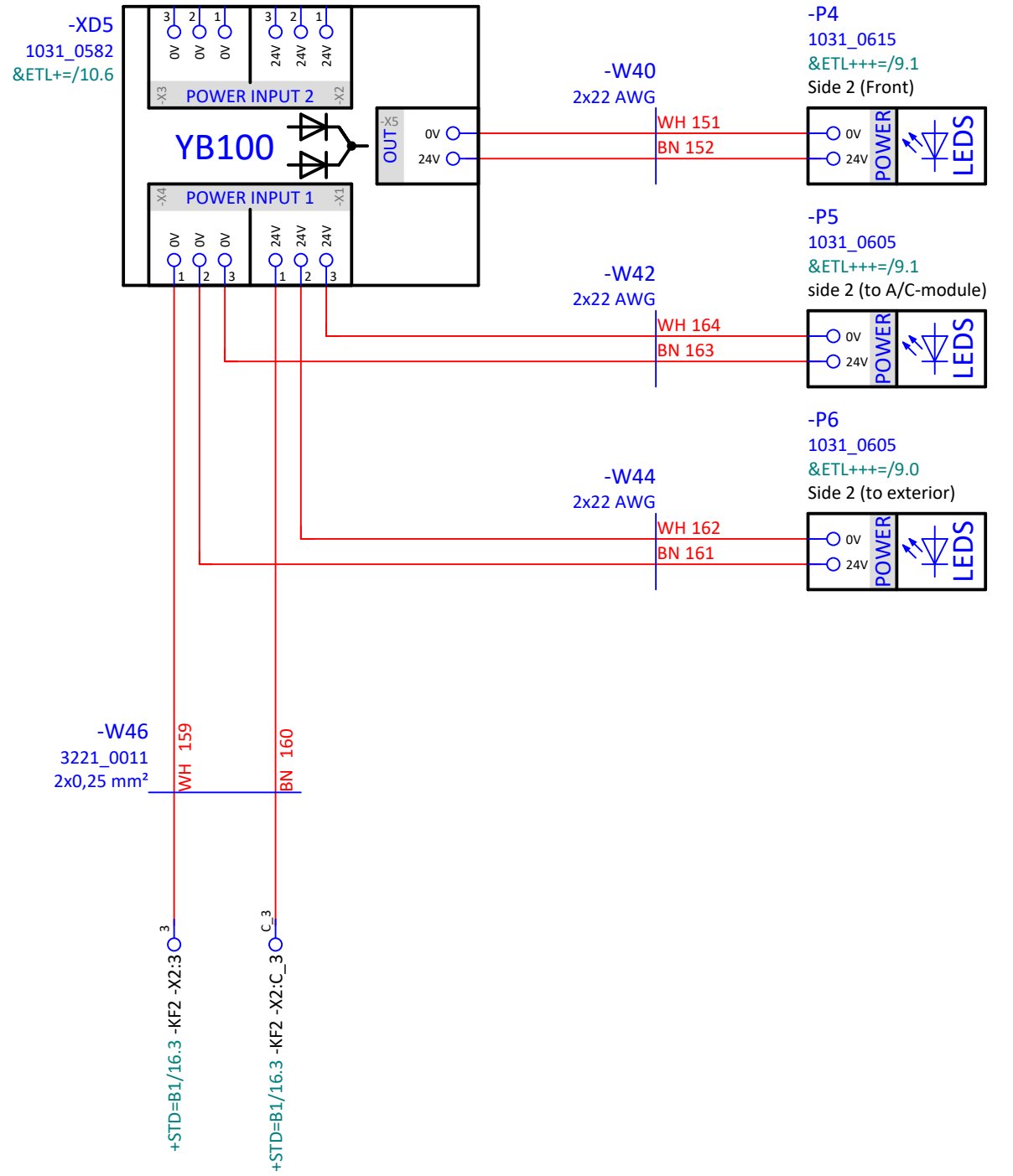
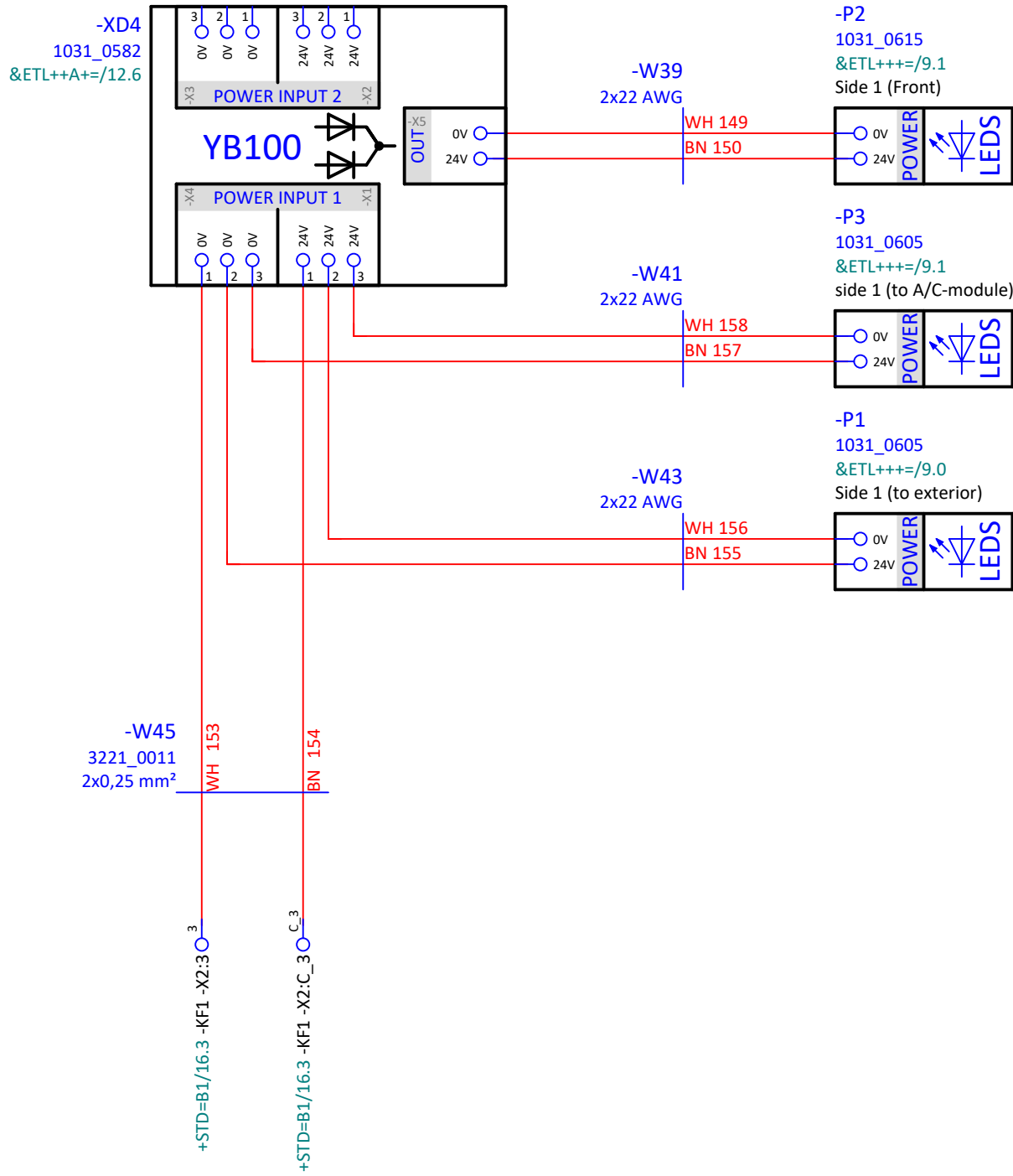


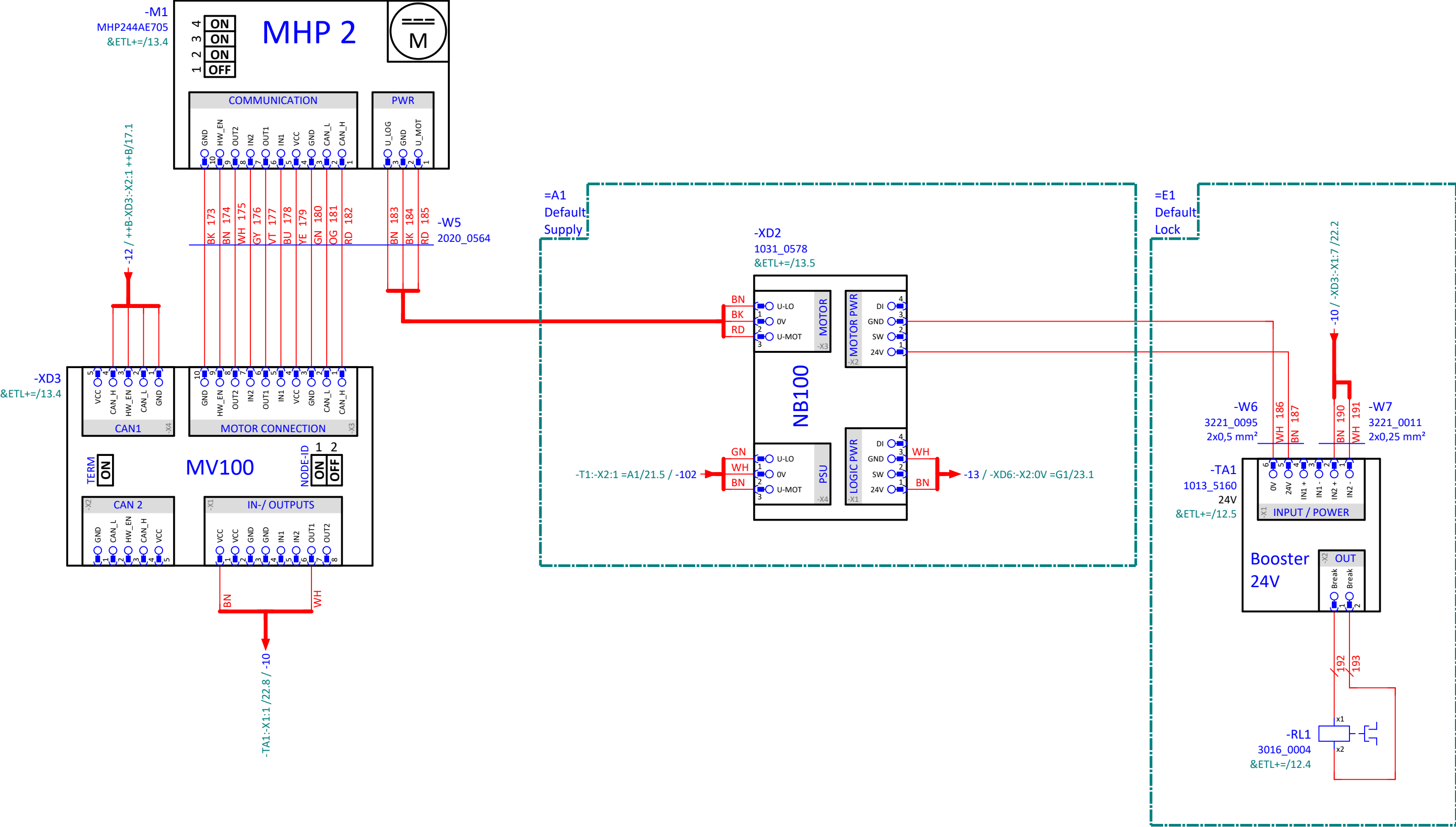
+RLED102
Frame lighting
Inform / visualize



=B1+DT100
illuminated push button
Control

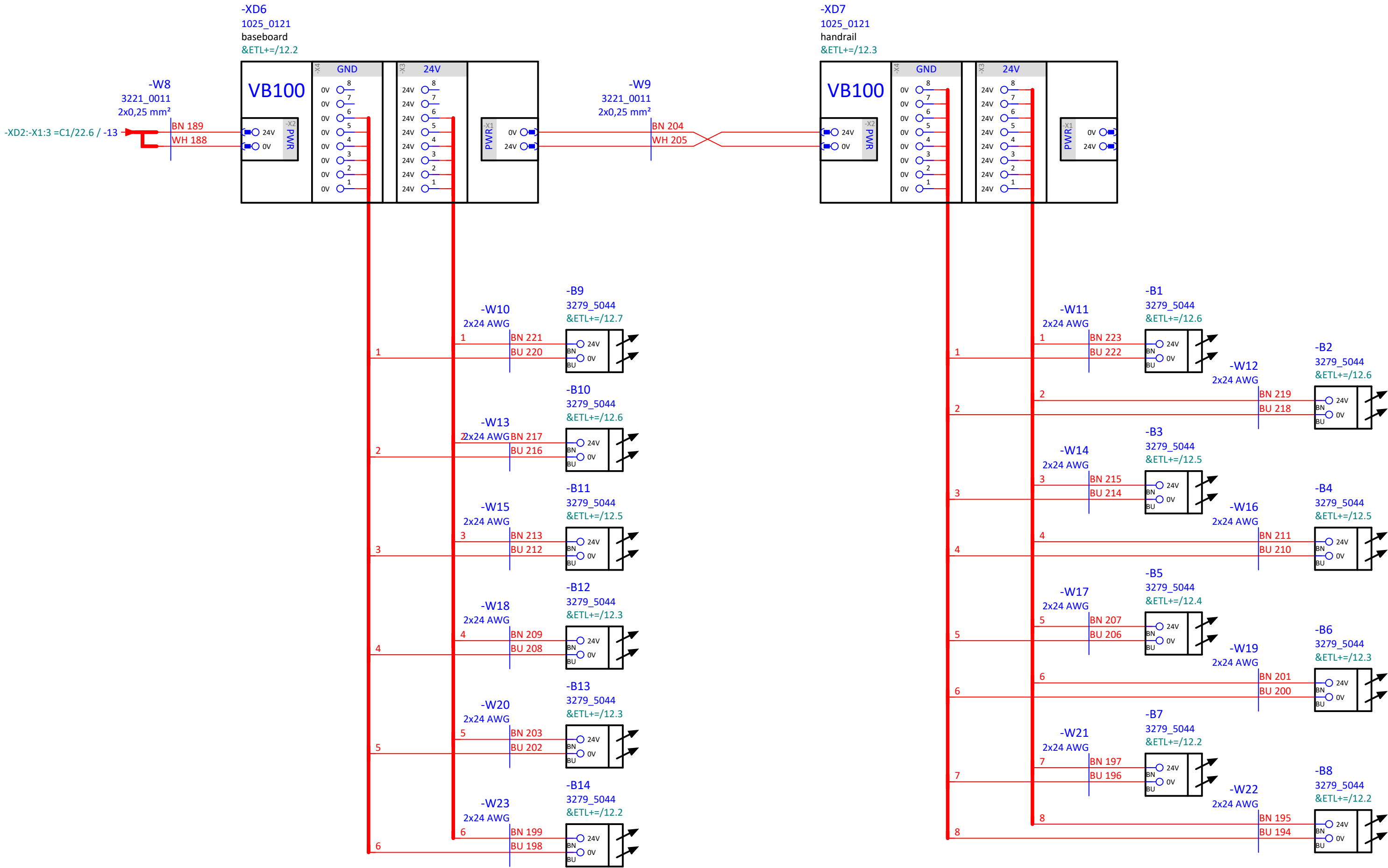




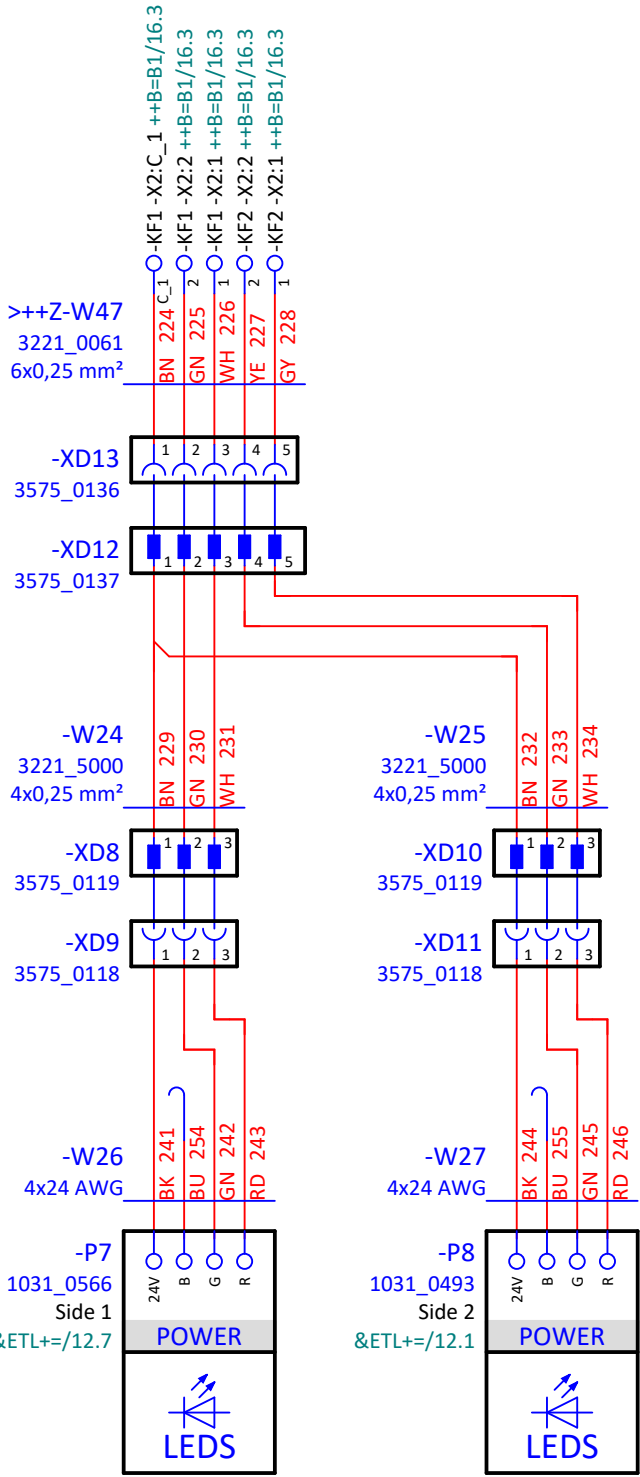


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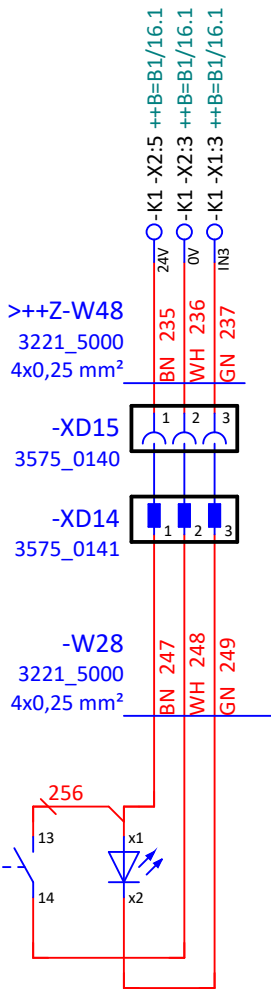
5527_0014 mWing	www.TURNSTILES.us	Drive and Locking	= C1	++ A	& EFS
			Drive	Base module	Schematic
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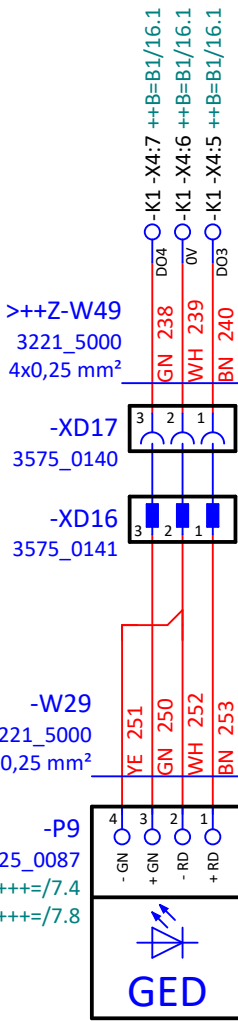
+RLED102
Frame lighting
Inform / visualize



=B1+DT100
illuminated push button
Control



+GED100
Passage indicator
Inform / visualize



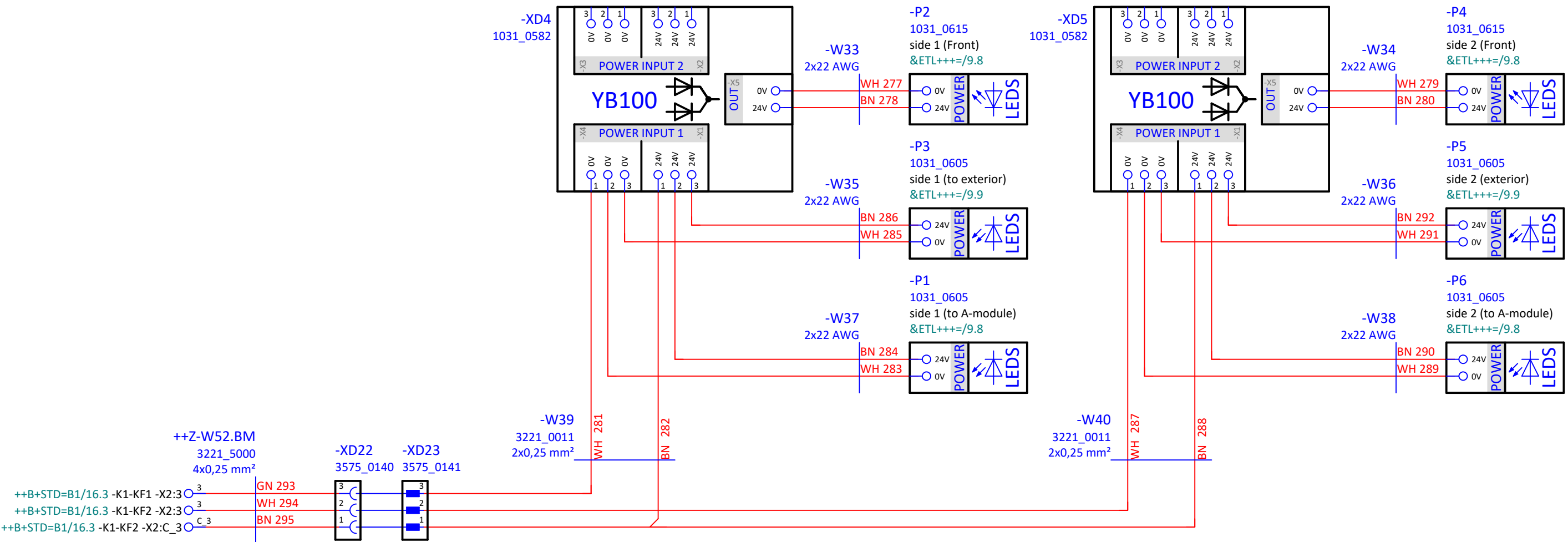
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Version	Date	Name	Modification project	Project no.	7K17506

5527_0014 mWing

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options

= I1	++ A	& EFS
Inform / visualize	Base module	Schematic
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0	1	2	3	4	5	6	7	8	9
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Summarized parts list

Part number	Quantity	Designation	Device tag
++B =A1 +STD / ++End module =Supply +Default			
3460_0003	1	ABB Breaker 2-pole 400V 16A	-S1
3219_0088	2	end clamp	-S1;-X1
3084_5046	1	power supply unit Inpotron 24V, 10A+1A	-T1
2020_0587	1	Anschlusskabel NT mWing mit Ferritkern über L/N	-W1
2020_0567	1	#####	-W3
2020_0566	1	power cable power supply unit to NB100 (0,7m)	-W4
3219_0001	1	4-conductor terminal ((GY) TOPJOB S)	-X1
3219_0002	1	4-conductor terminal ((BU) TOPJOB S)	-X1
3219_0003	1	4-wire grounded conductor terminal (TOPJOB S)	-X1
3219_0004	1	Cover- and Intermediate plate TOPJOB S	-X1
3219_5063	1	4-wire devices terminal	-XD1
1031_0578	1	power supply unit distribution board (NB100)	-XD2

++B =A1 +VE107 / ++End module =Supply +Supply unit			
3084_0018	1	power supply unit 24V,5A,120W	-T2
3221_0094	1	Cable 3GG1,5mm² Ölflex Classic 100	-W2
3221_0095	1	Data- and computer cables TRONIC 2x0,5 mm² GY	-W5

++B =B1 +STD / ++End module =Control +Default			
MGCPLUS	1	#####	-K1
1031_0458	2	MOSFET Modul / MFM01	-K1-KF1;-K1-KF2
1025_0086	1	MagPi / MPM01	-K1-KF3
1025_0001	1	Photocell input module / IM16	-K1-KF4

++B =B1 +DT100 / ++End module =Control +illuminated push button			
3601_0002	1	Illuminated pushbutton blue	-S2
3221_5000	1	Data- and computer cables TRONIC 4x0,25 mm² GY	-W36

Summarized parts list

Part number	Quantity	Designation	Device tag
++B =C1 +STD / ++End module =Drive +Default			
MHP244AE705	1	MHP-244A-E705	-M1
2020_0563	1	Cable MHP2 to MV100 and PSU / UL	-W6
2020_0600	1	CAN-cable MV100 to MV100 (4m)	-W7
	0		-XD3

++B =D1 +BOLED102 / ++End module =Light +Floor lighting			
1031_0605	4	floor lighting BOLED102 mWing, mFlap, mSlide 55cm	-P1;-P3;-P5;-P6
1031_0615	2	illumination strip 24V, WH 100mm	-P2;-P4
	6	Cable 2xAWG22; AWM 2464 VW-1; 80°C; 300V / Cable solid on illumination strip	-W39...-W44
3221_0011	2	Data- and computer cables TRONIC 2x0,5 mm² GY	-W45;-W46
1031_0582	2	distribution board with blocking diode (YB100)	-XD4;-XD5

++B =E1 +STD / ++End module =Lock +Default			
3016_0004	1	Magnetic clutch Ø65mm 150Nm	-RL1
1013_5160	1	brake booster 24V Variant 1	-TA1
3221_0095	1	Data- and computer cables TRONIC 2x0,5 mm² GY	-W8
3221_0011	1	Data- and computer cables TRONIC 2x0,5 mm² GY	-W9

++B =G1 +STD / ++End module =Capture +Default			
3279_5045	14	safety device receiver 2m	-B1...-B14
3221_0011	2	Data- and computer cables TRONIC 2x0,5 mm² GY	-W11;-W12
3221_5029	1	patch cable 1 m	-W13
3221_5078	1	patch cable 2,5 m	-W14
	14	Cable safety device receiver 2m	-W15...-W28
1025_0117	2	receiver board for light barriers (EB100)	-XD6;-XD7

++B =I1 +RLED102 / ++End module =Inform / visualize +Frame lighting			
1031_0493	1	frame lighting long right, RGB (RLED100)	-P7

Summarized parts list

Part number	Quantity	Designation	Device tag
++B =I1 +RLED102 / ++End module =Inform / visualize +Frame lighting			
1031_0566	1	frame lighting long left, RGB (RLED100)	-P8
	2	Cable 4xAWG24; AWM 2464 VW-1; 80°C; 300V / Cable solid on illumination strip	-W34;-W35
3221_5000	2	Data- and computer cables TRONIC 4x0,25 mm² GY	-W37;-W38
3575_0119	2	connector strip 3 pole	-XD8;-XD10
3575_0118	2	socket strip 3 pole	-XD9;-XD11

++B =I1 +GEDEXT100 / ++End module =Inform / visualize +Passage indicator external			
3278_0011	2	Signal light, beacon multicolor	-P12;-P13
3221_0087	2	Cable 5-pin M12 / Euro-style cable set one-sided 1.83m	-W29;-W30

++B =I1 +DLED100 / ++End module =Inform / visualize +Light for random generator			
3278_0011	1	Signal light, beacon multicolor	-P11
3221_0087	1	Cable 5-pin M12 / Euro-style cable set one-sided 1.83m	-W31

++B =I1 +ESU0102 / ++End module =Inform / visualize +Buzzer			
3278_0043	1	Acoustic signal transmitter, piezo buzzer 85dB	-P10
3221_0011	1	Data- and computer cables TRONIC 2x0,5 mm² GY	-W32

++B =I1 +GED100 / ++End module =Inform / visualize +Passage indicator			
1025_0087	1	Mini GED	-P9
3221_5000	1	Data- and computer cables TRONIC 4x0,25 mm² GY	-W33

++A =A1 +STD / ++Base module =Supply +Default			
3084_5046	1	power supply unit Inpotron 24V, 10A+1A	-T1
2020_0587	1	Anschlusskabel NT mWing mit Ferritkern über L/N	-W1
2020_0549	1	Plug PE (power supply unit Inpotron)	-W3
2020_0560	1	power cable power supply unit to NB100 (0,4 m)	-W4
3219_5063	1	4-wire devices terminal	-XD1

Summarized parts list

Part number	Quantity	Designation	Device tag
++A =A1 +STD / ++Base module =Supply +Default			
1031_0578	1	power supply unit distribution board (NB100)	-XD2

++A =B1 +DT100 / ++Base module =Control +illuminated push button			
3601_0002	1	Illuminated pushbutton blue	-S1
3221_5000	1	Data- and computer cables TRONIC 4x0,25 mm² GY	-W28
3575_0141	1	Wago pin header 3-pole + Strain relief + Locking	-XD14
3575_0140	1	Wago female connector 3-pole + Strain relief +Locking	-XD15

++A =C1 +STD / ++Base module =Drive +Default			
MHP244AE705	1	MHP-244A-E705	-M1
2020_0564	1	Cable MHP2 to MV100 and PSU / UL	-W5
	0		-XD3

++A =D1 +BOLED102 / ++Base module =Light +Floor lighting			
1031_0605	4	floor lighting BOLED102 mWing, mFlap, mSlide 55cm	-P1;-P3;-P5;-P6
1031_0615	2	illumination strip 24V, WH 100mm	-P2;-P4
	6	Cable 2xAWG22; AWM 2464 VW-1; 80°C; 300V / Cable solid on illumination strip	-W33...-W38
3221_0011	2	Data- and computer cables TRONIC 2x0,5 mm² GY	-W39;-W40
1031_0582	2	distribution board with blocking diode (YB100)	-XD4;-XD5
3575_0140	1	Wago female connector 3-pole + Strain relief +Locking	-XD22
3575_0141	1	Wago pin header 3-pole + Strain relief + Locking	-XD23

++A =E1 +STD / ++Base module =Lock +Default			
3016_0004	1	Magnetic clutch Ø65mm 150Nm	-RL1
1013_5160	1	brake booster 24V Variant 1	-TA1
3221_0095	1	Data- and computer cables TRONIC 2x0,5 mm² GY	-W6
3221_0011	1	Data- and computer cables TRONIC 2x0,5 mm² GY	-W7

Summarized parts list

Part number	Quantity	Designation	Device tag
++A =G1 +STD / ++Base module =Capture +Default			
3279_5044	14	safety device transmitter 2m	-B1...-B14
3221_0011	2	Data- and computer cables TRONIC 2x0,5 mm² GY	-W8;-W9
	14	Cable safety device transmitter 2m	-W10...-W23
1025_0121	2	distribution board for 24V and 0V (VB100)	-XD6;-XD7

++A =I1 +RLED102 / ++Base module =Inform / visualize +Frame lighting			
1031_0566	1	frame lighting long left, RGB (RLED100)	-P7
1031_0493	1	frame lighting long right, RGB (RLED100)	-P8
3221_5000	2	Data- and computer cables TRONIC 4x0,25 mm² GY	-W24;-W25
	2	Cable 4xAWG24; AWM 2464 VW-1; 80°C; 300V / Cable solid on illumination strip	-W26;-W27
3575_0119	2	connector strip 3 pole	-XD8;-XD10
3575_0118	2	socket strip 3 pole	-XD9;-XD11
3575_0137	1	734-305 pin header 5-pole	-XD12
3575_0136	1	734-105/037-000 female connector with Locking 5-pole	-XD13

++A =I1 +GEDEXT100 / ++Base module =Inform / visualize +Passage indicator external			
3278_0011	2	Signal light, beacon multicolor	-P11;-P12
3221_0087	2	Cable 5-pin M12 / Euro-style cable set one-sided 1.83m	-W30;-W31
3575_0141	1	Wago pin header 3-pole + Strain relief + Locking	-XD18
3575_0140	1	Wago female connector 3-pole + Strain relief +Locking	-XD19

++A =I1 +DLED100 / ++Base module =Inform / visualize +Light for random generator			
3278_0011	1	Signal light, beacon multicolor	-P10
3221_0087	1	Cable 5-pin M12 / Euro-style cable set one-sided 1.83m	-W32
3575_0141	1	Wago pin header 3-pole + Strain relief + Locking	-XD20
3575_0140	1	Wago female connector 3-pole + Strain relief +Locking	-XD21

Summarized parts list

Part number	Quantity	Designation	Device tag
++A =I1 +GED100 / ++Base module =Inform / visualize +Passage indicator			
1025_0087	1	Mini GED	-P9
3221_5000	1	Data- and computer cables TRONIC 4x0,25 mm² GY	-W29
3575_0141	1	Wago pin header 3-pole + Strain relief + Locking	-XD16
3575_0140	1	Wago female connector 3-pole + Strain relief +Locking	-XD17

++C =B1 +BOLED102 / ++Center module =Control +Floor lighting			
1031_0458	2	MOSFET Modul / MFM01	-K1-KF1;-K2-KF2

++C =D1 +BOLED102 / ++Center module =Light +Floor lighting			
1031_0605	4	floor lighting BOLED102 mWing, mFlap, mSlide 55cm	-P1;-P3;-P5;-P6
1031_0615	2	illumination strip 24V, WH 100mm	-P2;-P4
3221_0011	4	Data- and computer cables TRONIC 2x0,5 mm² GY	-W9;-W10;-W53;-W54
	6	Cable 2xAWG22; AWM 2464 VW-1; 80°C; 300V / Cable solid on illumination strip	-W33...-W38
1031_0582	2	distribution board with blocking diode (YB100)	-XD4;-XD5
3575_0140	1	Wago female connector 3-pole + Strain relief +Locking	-XD22
3575_0141	1	Wago pin header 3-pole + Strain relief + Locking	-XD23

++Z =A1 +STD / ++Connection cable =Supply +Default			
3221_0094	1	Cable 3GG1,5mm² Ölflex Classic 100	-W2

++Z =B1 +DT100 / ++Connection cable =Control +illuminated push button			
3221_5000	1	Data- and computer cables TRONIC 4x0,25 mm² GY	-W48

++Z =C1 +STD / ++Connection cable =Drive +Default			
2020_0600	1	CAN-cable MV100 to MV100 (4m)	-W10

++Z =D1 +BOLED102 / ++Connection cable =Light +Floor lighting			
3221_5000	2	Data- and computer cables TRONIC 4x0,25 mm² GY	-W52.BM;-W52.ZM

Summarized parts list

Part number	Quantity	Designation	Device tag
++Z =I1 +RLED102 / ++Connection cable =Inform / visualize +Frame lighting			
3221_0061	1	Data- and computer cable TRONIC 6x0.25 mm² GR	-W47

++Z =I1 +GEDEXT100 / ++Connection cable =Inform / visualize +Passage indicator external			
3221_5000	1	Data- and computer cables TRONIC 4x0,25 mm² GY	-W50

++Z =I1 +DLED100 / ++Connection cable =Inform / visualize +Light for random generator			
3221_0011	1	Data- and computer cables TRONIC 2x0,5 mm² GY	-W51

++Z =I1 +GED100 / ++Connection cable =Inform / visualize +Passage indicator			
3221_5000	1	Data- and computer cables TRONIC 4x0,25 mm² GY	-W49