

AANSLUITKLEM KLEMMENKAST ⌀ ANSCHLUSSKLEMME KLEMMKASTEN TERMINAL CONNECTION BOX AANSLUITKLEM BEDIENINGSKAST ⌀ ANSCHLUSSKLEMME STEUERPUIT TERMINAL CONTROL BOX	AANSLUITKLEM TRANSISTOR ⊕ ANSCHLUSSKLEMME TRANSISTOR TERMINAL TRANSISTOR AANSLUITKLEM PLC ⊕ ANSCHLUSSKLEMME SPS TERMINAL PLC	AANSLUITKLEM PLC-SLAVE ⌀ ANSCHLUSSKLEMME SPS-SLAVE TERMINAL PLC-SLAVE
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TYPE		OMSCHRIJVING UMSCHREIBUNG DESCRIPTION	PLC PROG: SPS PROG: PLC PROG:
HL7810 / HL7814		ECOSTAR	ECO_02A_POTHOLE
HL9710 / HL9714		ECOSTAR	ECO_02A_POTHOLE
REV.	DATUM DATUM DATE	OPMERKING BEMERKUNG REMARK	
A	07-06-11	NEW ANGLE SENSOR	

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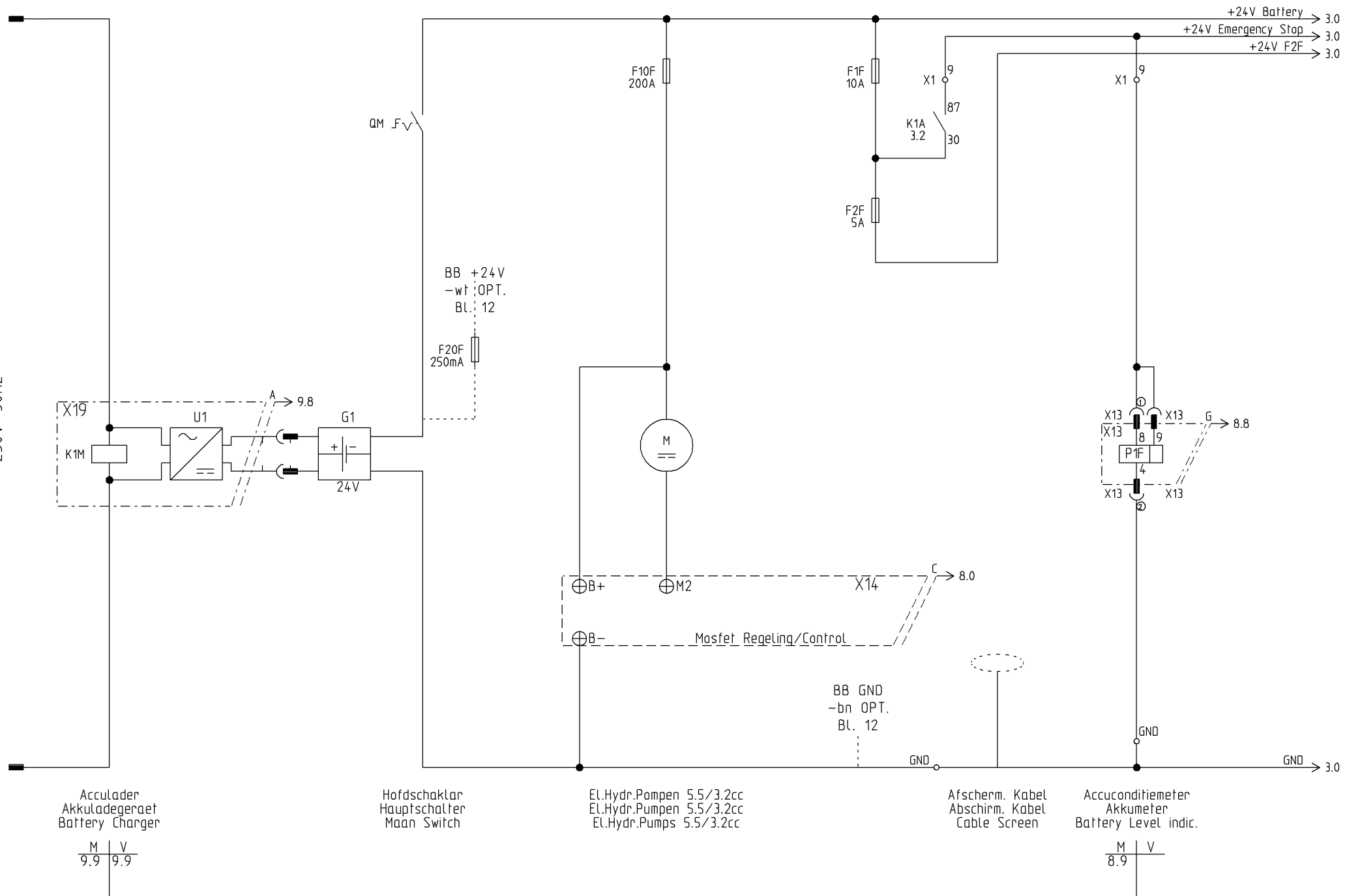
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INDEX BLAD
 INDEX BLATT
 INDEX SHEET

Projekt:	EE-20-001	Zeichnungsnummer:	Rev.:	A	erstellt von:	Rothenbusch	
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230V - 50Hz



Acculader
Akkuladegeraet
Battery Charger

M	V
9.9	9.9

Hofdschaklar
Hauptschalter
Maan Switch

EL.Hydr.Pompen 5.5/3.2cc
EL.Hydr.Pumpen 5.5/3.2cc
EL.Hydr.Pumps 5.5/3.2cc

Afscherm. Kabel
Abschirm. Kabel
Cable Screen

Accuconditiemeter
Akkumeter
Battery Level indic.

M	V
8.9	



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Ladegerät
E-Motor

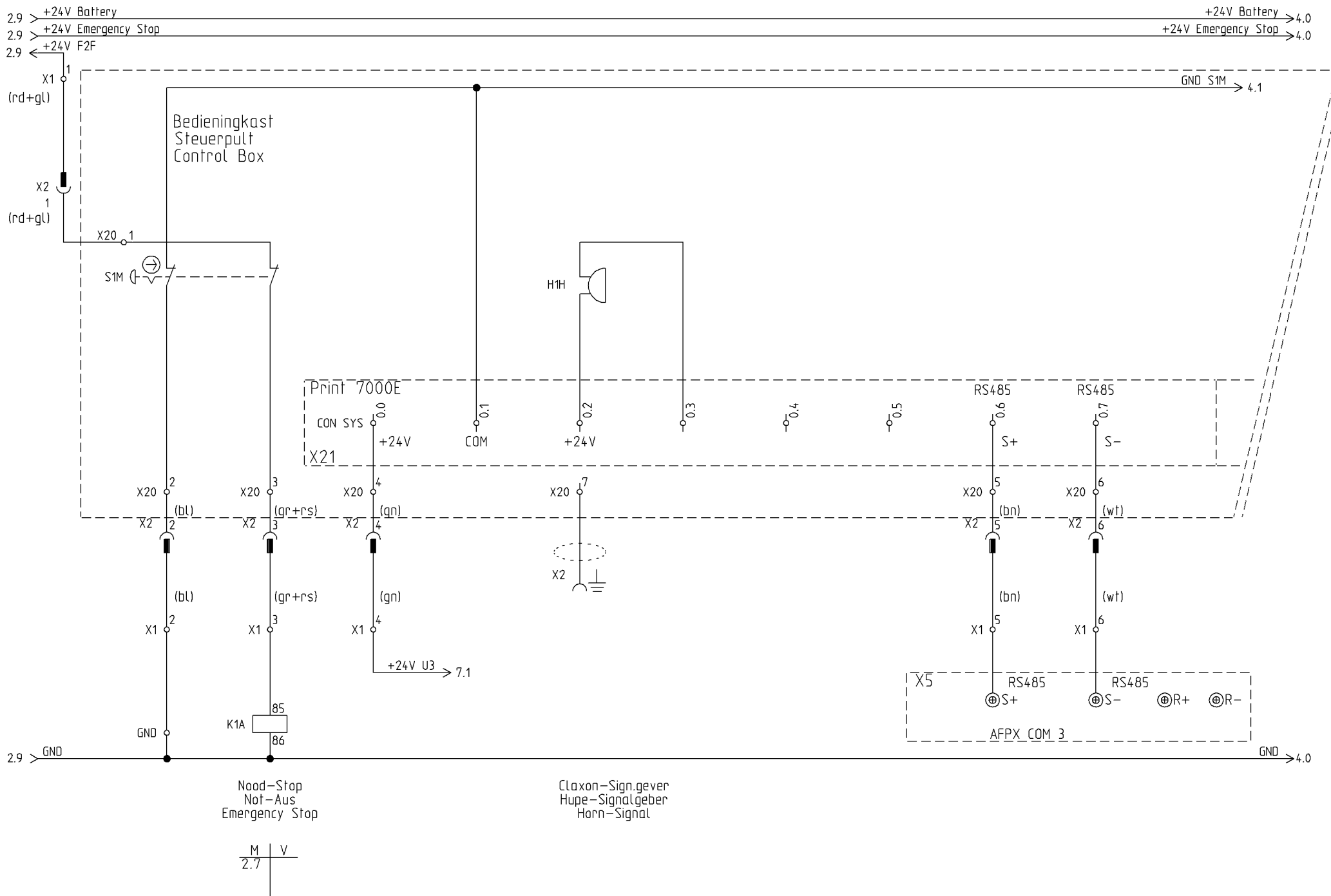
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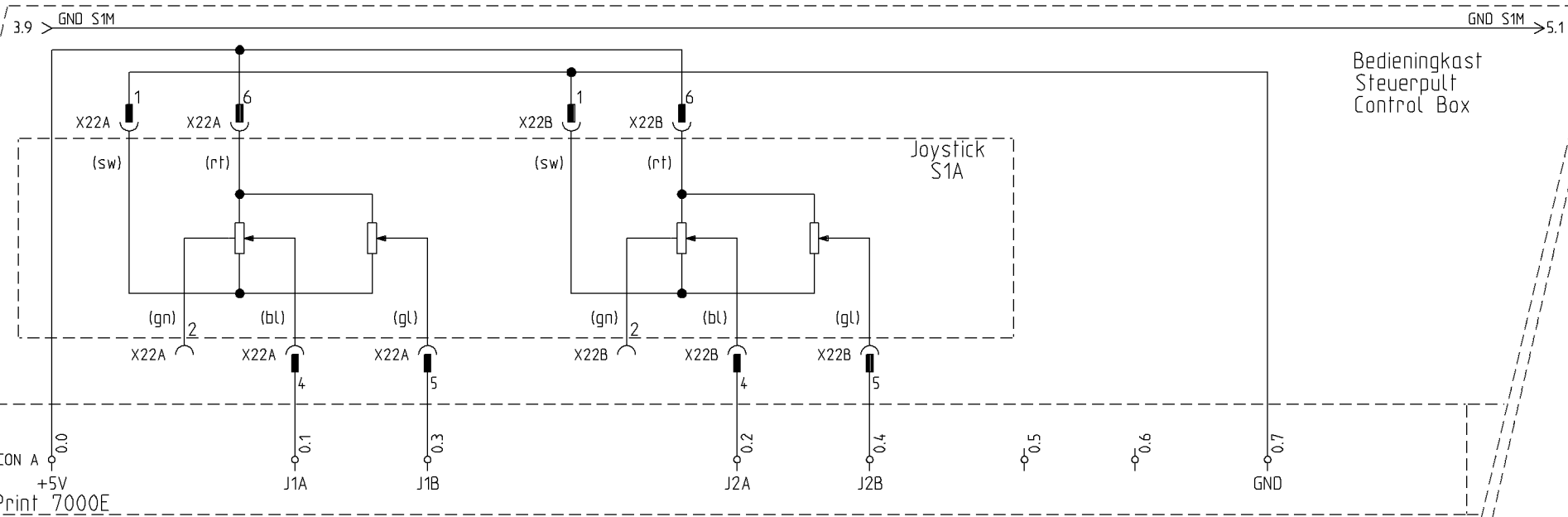
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3.9 > +24V Battery
 3.9 > +24V Emergency Stop

+24V Battery > 5.0
 +24V Emergency Stop > 5.0



3.9 > GND

GND > 5.0

Op-Joysick-Neer
 Auf-Joysick-Nieder
 On-Joysick-Down

Links-Joysick-Rechts
 Links-Joysick-Rechts
 Left-Joysick-Right

Op-Joysick-Neer
 Auf-Joysick-Nieder
 On-Joysick-Down

Links-Joysick-Rechts
 Links-Joysick-Rechts
 Left-Joysick-Right

Heffen/Rijden
 Heben/Fahren
 Lift Up/Driving

Sturen
 Lenken
 Steering

Heffen/Rijden
 Heben/Fahren
 Lift Up/Driving

Sturen
 Lenken
 Steering

0,5V Achteruit/Daten
 2,5V Mitte
 4,5V Vooruit/Heffen

0,5V Links
 2,5V Mitte
 4,5V Rechts

0,5V Achteruit/Daten
 2,5V Mitte
 4,5V Vooruit/Heffen

0,5V Links
 2,5V Mitte
 4,5V Rechts

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Bedienpult
 CON ANALOG

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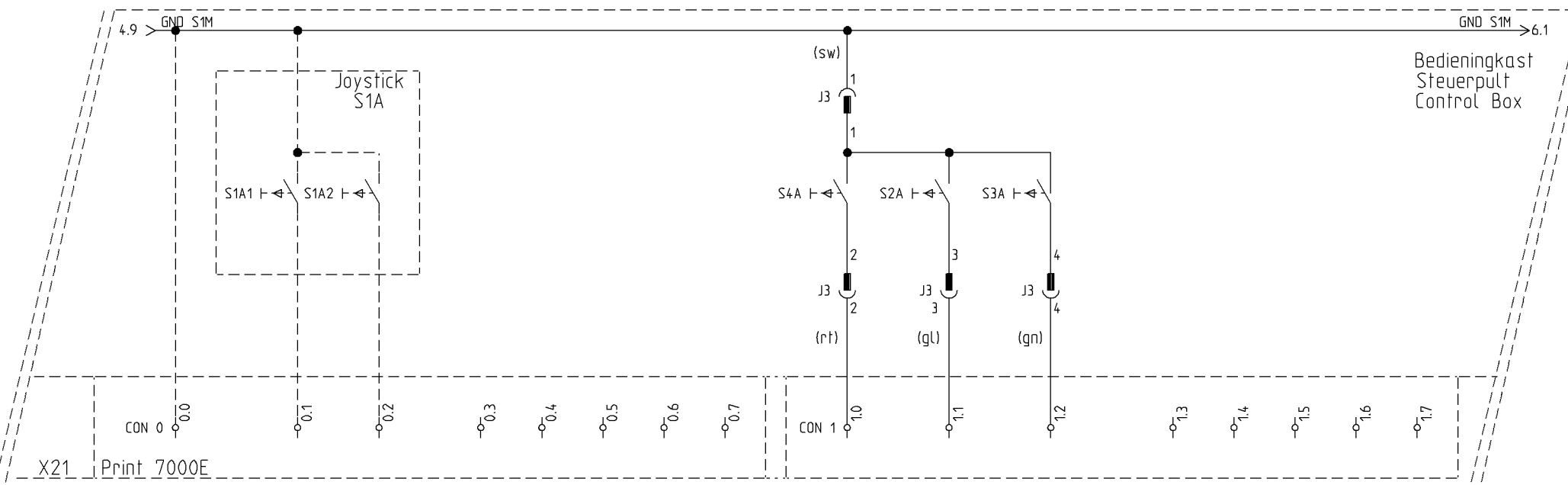
Anlage: =

Ort: +

Blatt: 4

4.9 > +24V Battery
 4.9 > +24V Emergency Stop

+24V Battery > 6.0
 +24V Emergency Stop > 6.0



4.9 > GND

GND > 6.0

Aan
 An
 On

Links - Rechts
 Links - Rechts
 Left - Right

Snelheid
 Geschwindigkeit
 Speed

Claxon-Sign.geber
 Hupe-Signalgeber
 Horn-Signal

Heffen/Rijden
 Heben/Fahren
 Lift Up/Driving

Buttons
 — Sturen Lenken Steering —

push Speed and Lift Up/Driving
 30 sec to calibrate Joystick

Optie/Option

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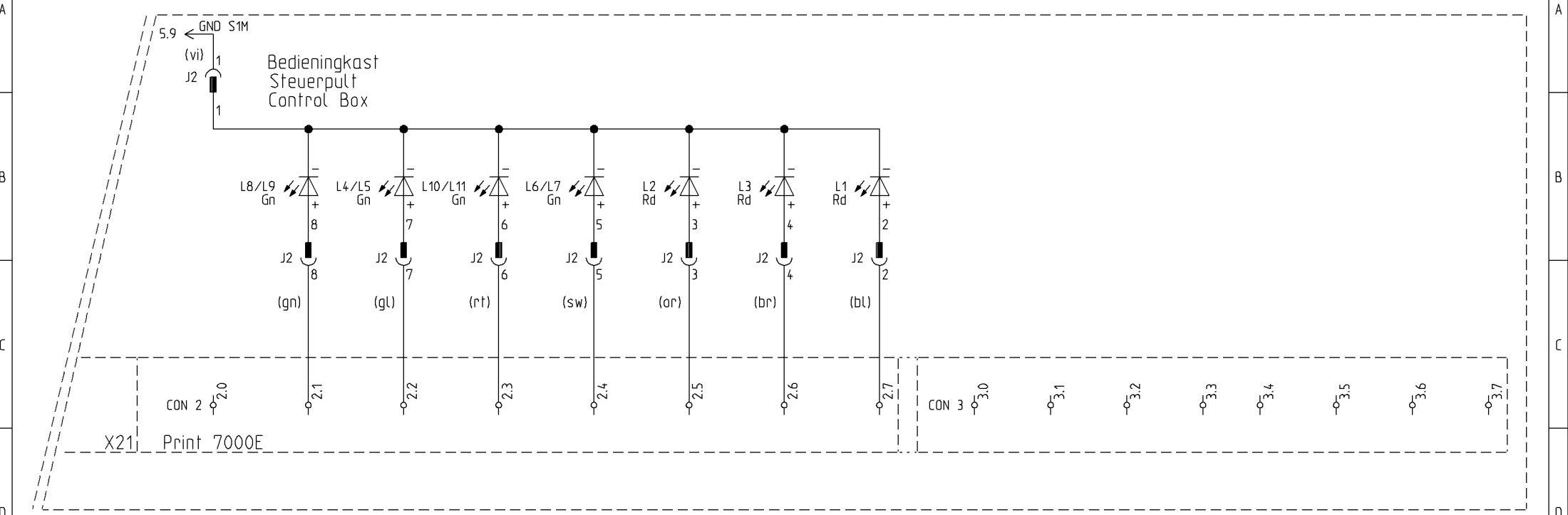


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Bedienpult
 CON 0 - 1

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5.9 > +24V Battery +24V Battery > 7.0
 5.9 > +24V Emergency Stop +24V Emergency Stop > 7.0



X21 | Print 7000E

5.9 > GND GND > 7.0

Snel Schnell Fast
 Lift Mode
 Langzaam Langsam Slow
 Drive Mode
 Overload Ueberlastung Overload
 Scheefstand Neigung Grade/Slope
 Accu Leeg Akku Leer Bat. Empty

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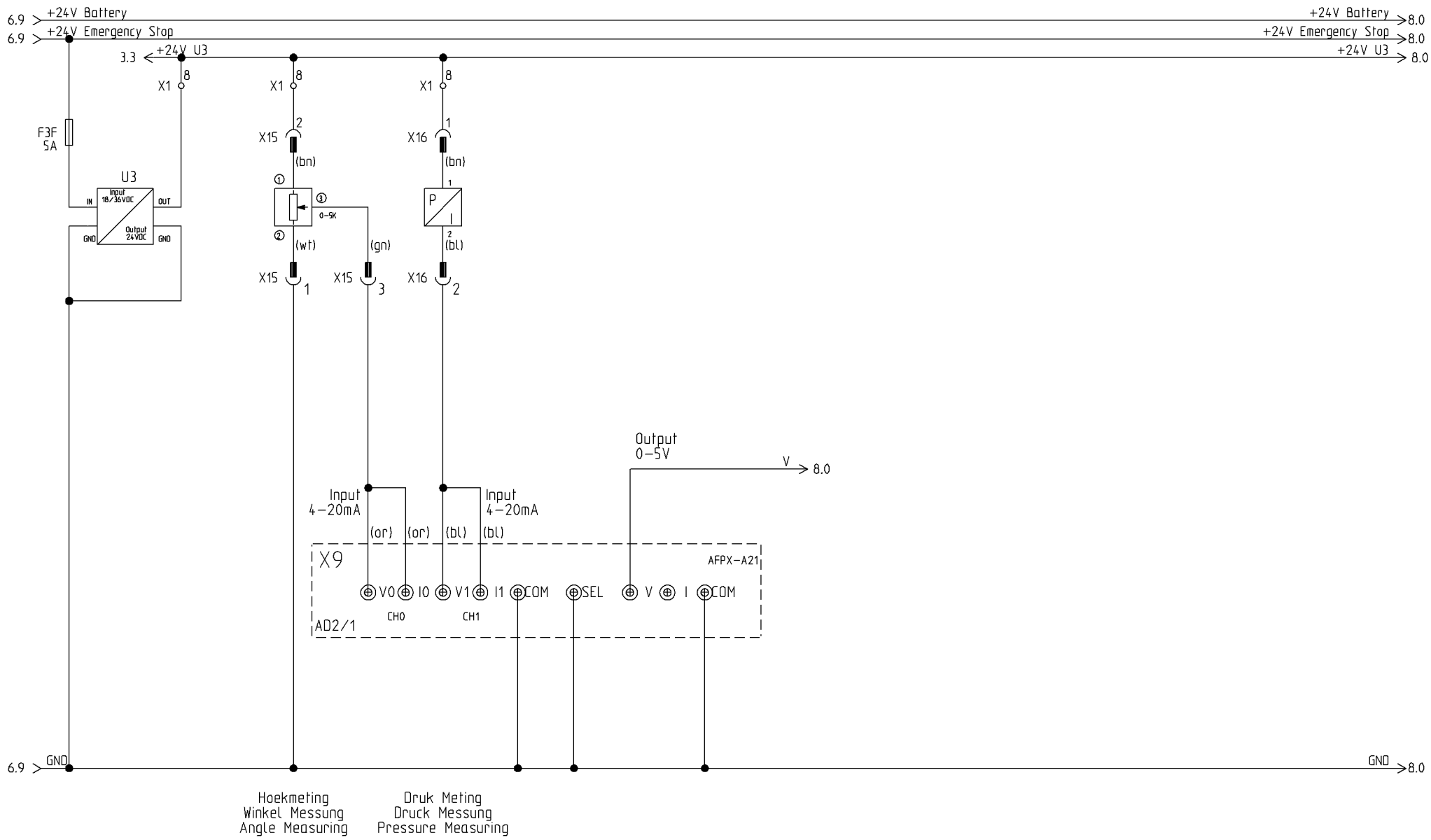


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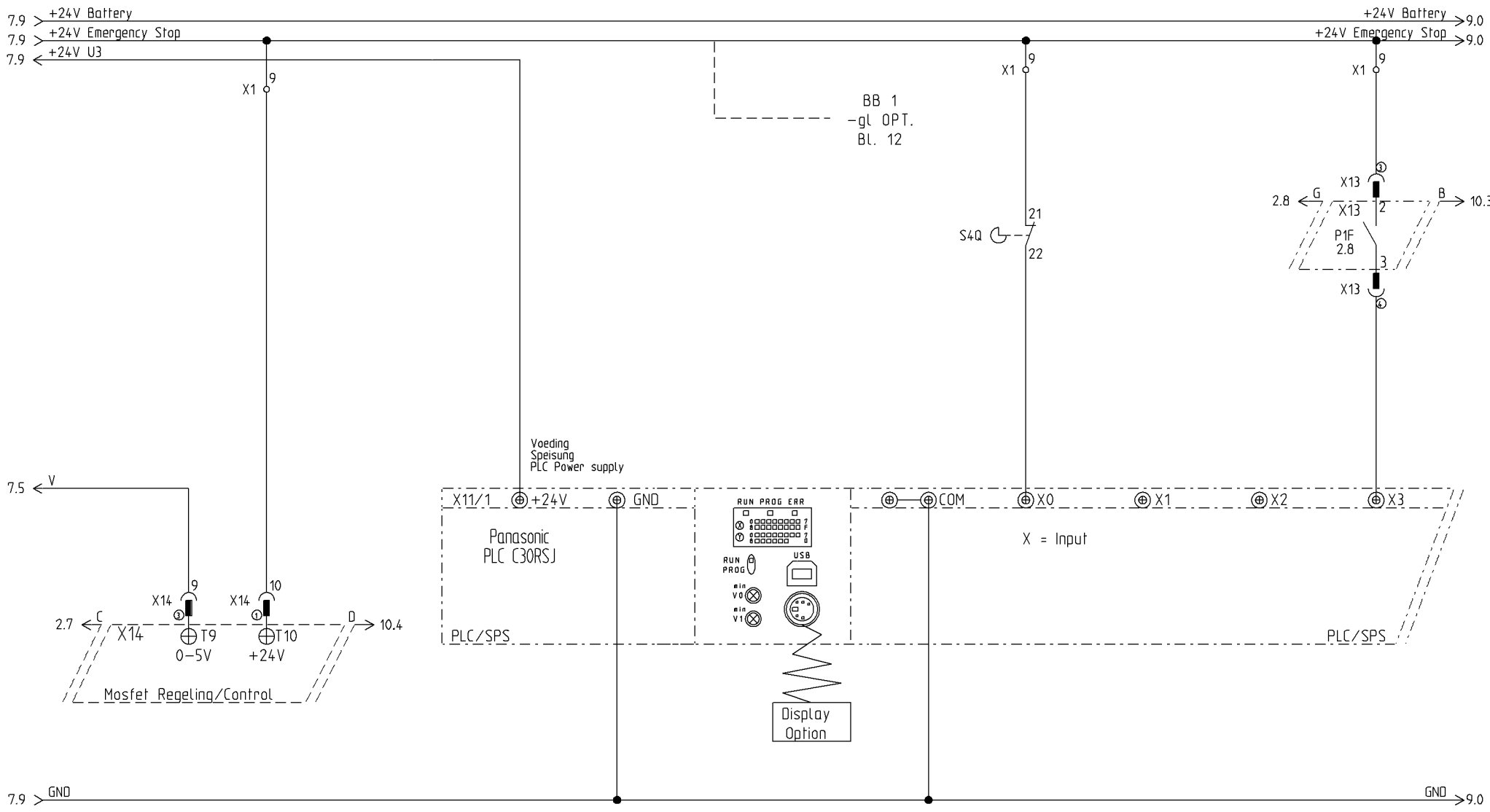
Bedienpult
 Con 2 - 3

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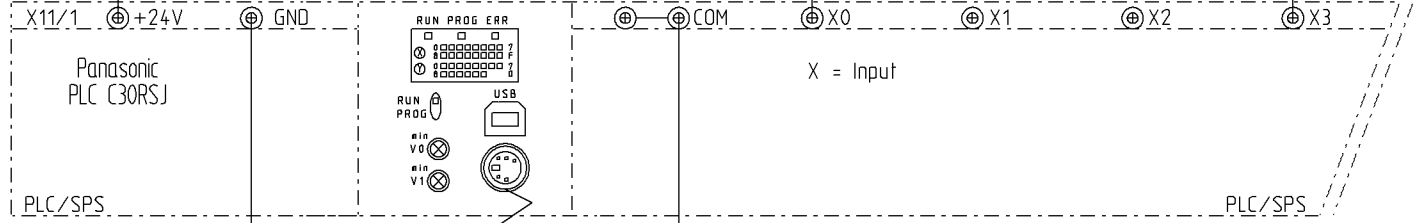
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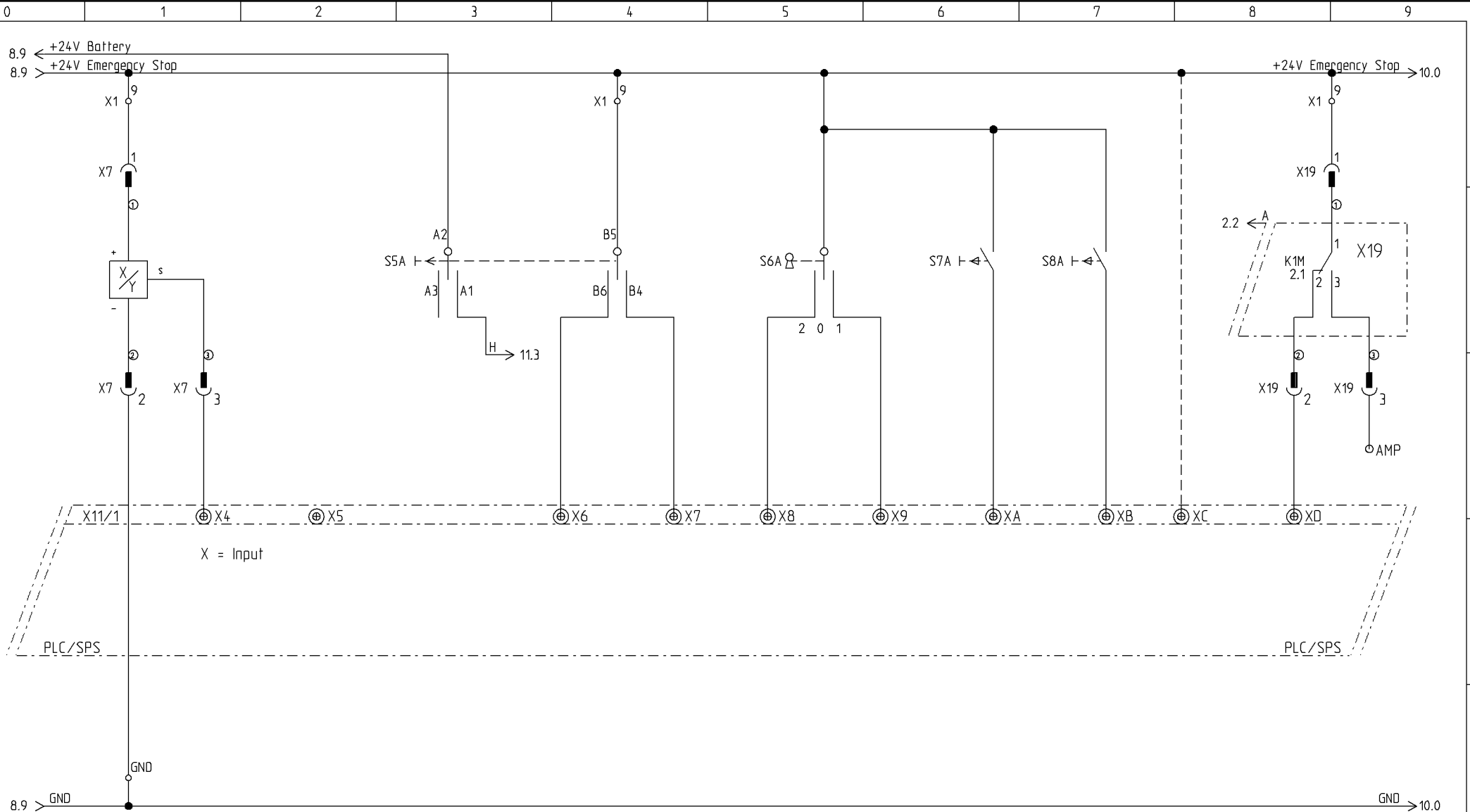
Voeding
Speisung
PLC Power supply



Kantel Beveiliging
Kipp Schutz
Turn Over Protection

Accuconditiemeter
Akkumeter
Battery Level indic.

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Scheefstand
Neigung
Grade/Slope

Reserve
Reserve
Spare

Dalen Onderwagen
Senken Chassis
Lift Down Chassis

Heffen - Dalen
Heben - Senken
Lift Up - Lift Down

Pragr. Uit
Pragr. Aus
Pragr. Off

Aan
An
On

Store
Store
Store

Save
Save
Save

Bypass Progr.
Bypass Progr.
Bypass Progr.

Acculader
Akkuladegeraet
Battery Charger

Overlast - Ueberlastung - Overload



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SPS Input
X4 - XD

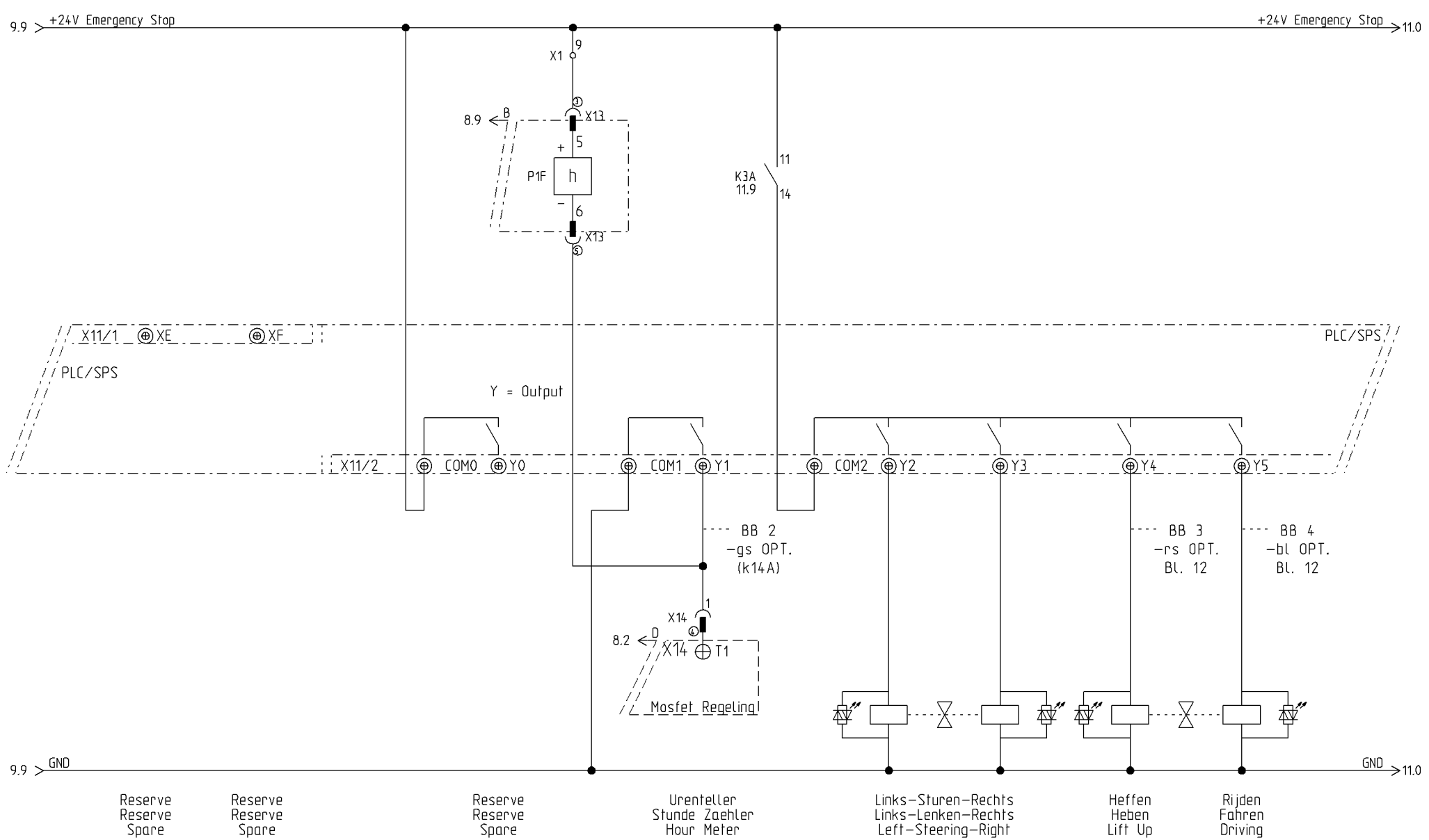
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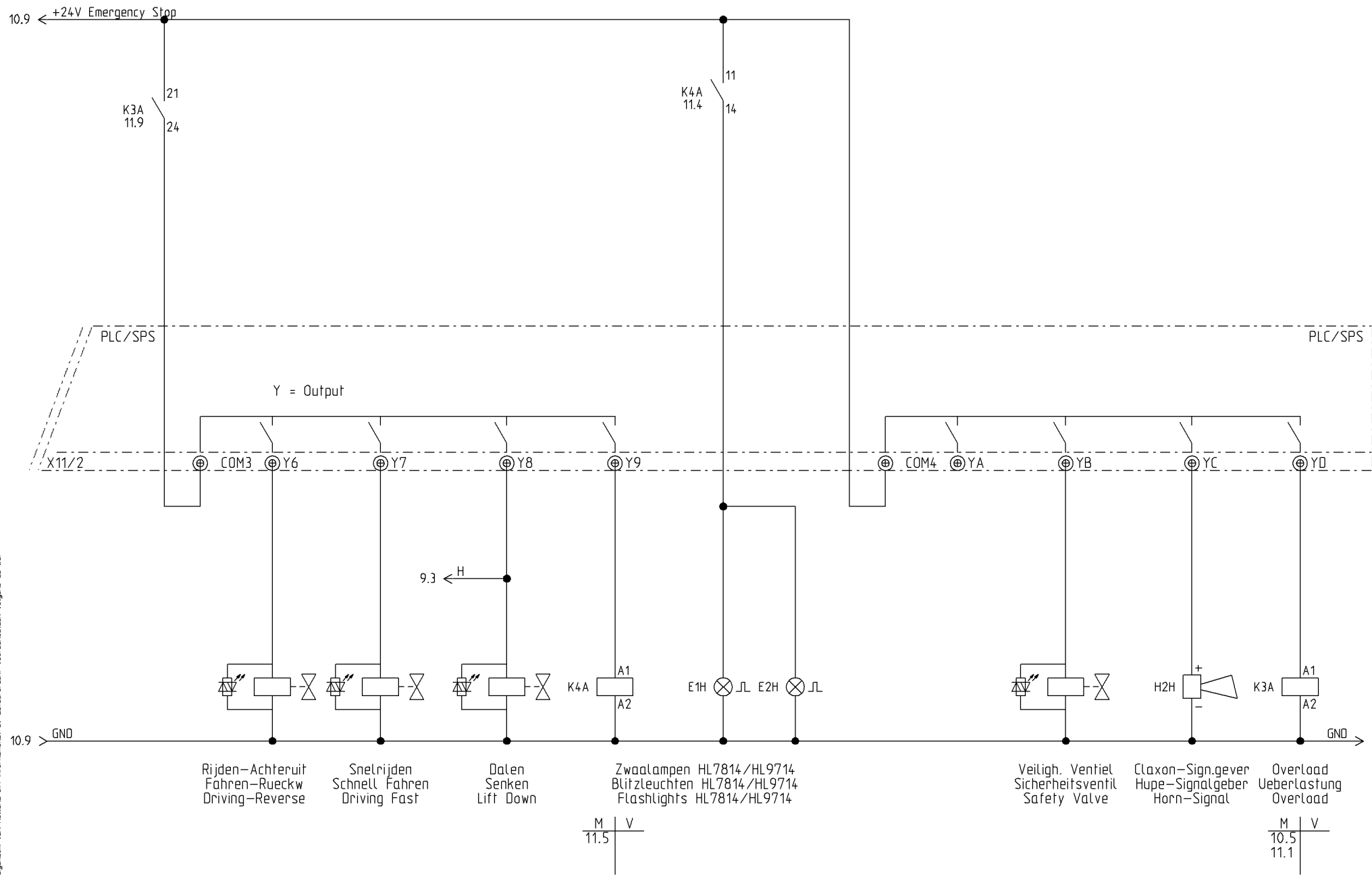
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SPS Output
 Y6 - YD

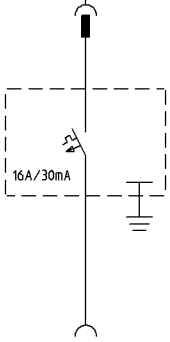
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OPTIES
OPTIONEN
OPTIONS

230V AANSLUITING PLATFORM
230V ANSCHLUSS PLATTFORM
230V SUPPLY PLATFORM

<230VPLF>

230V-50Hz/115V-50Hz



AARDLEKAUTOMAAT
FI SCHALTER
EARTH DETECTOR

OPTIE BLACK-BOX MINI DAT (HLI)				
OPTION BLACK-BOX MINI DAT				
OPTION BLACK-BOX MINI DAT				
BB-wt	+24V DC	+24V DC	+24V DC	+24V DC
BB-bn	GND	GND	GND	GND
BB-gl	CH1	IN BEDRIJF	IN BETRIEB	RUNNING
BB-gs	CH2	MOTOR	MOTOR	MOTOR
BB-rs	CH3	HEFFEN	HEBEN	LIFT UP
BB-bl	CH4	RIJDEN	FAHREN	DRIVING
BB-rd	CH5	LAADTIJD	LADEZEIT	CHARGE TIME

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Optionen

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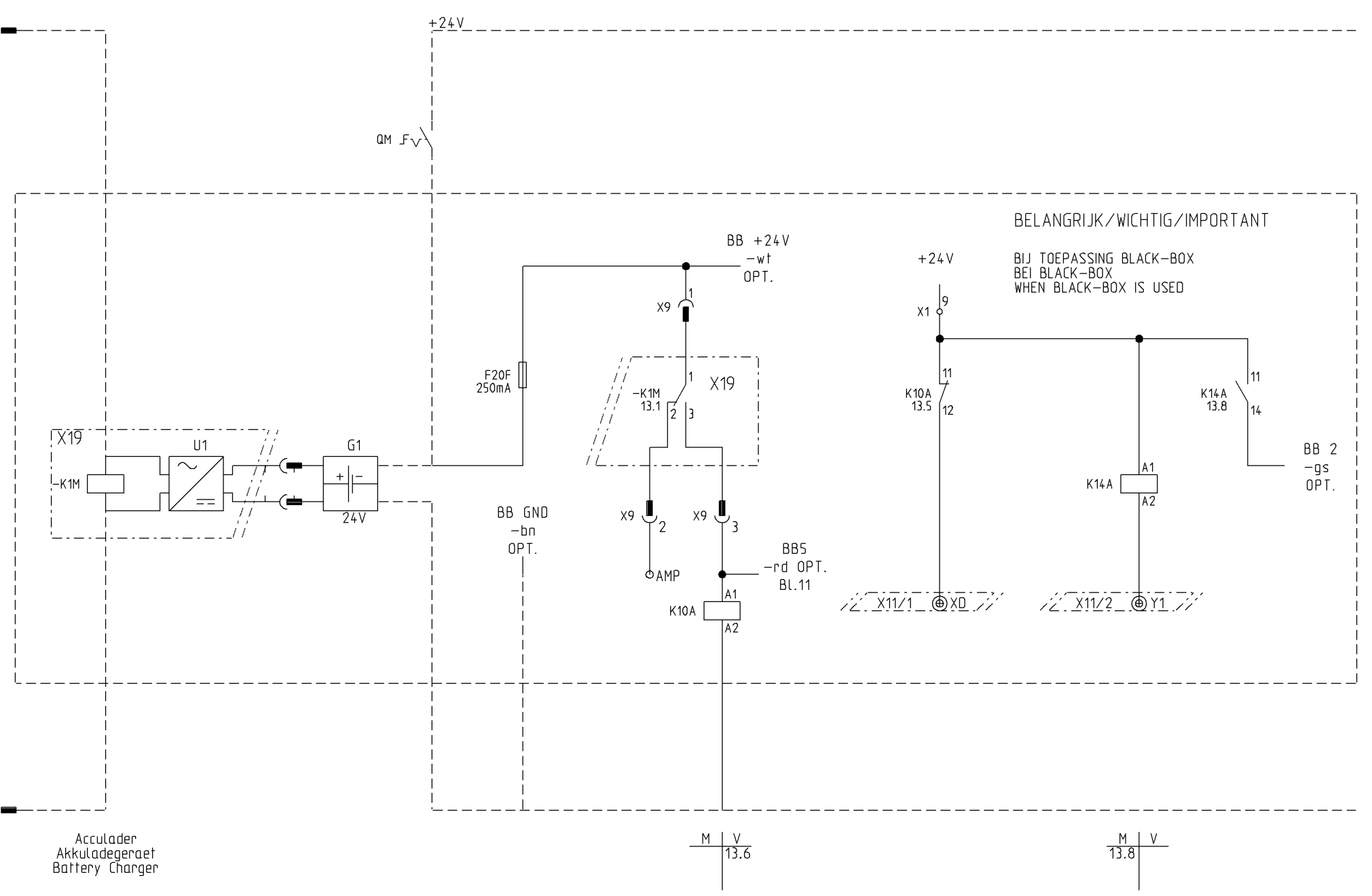
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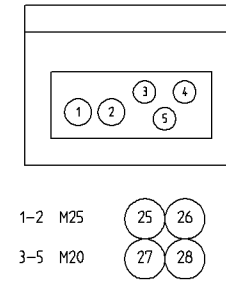
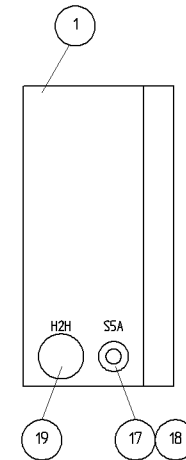
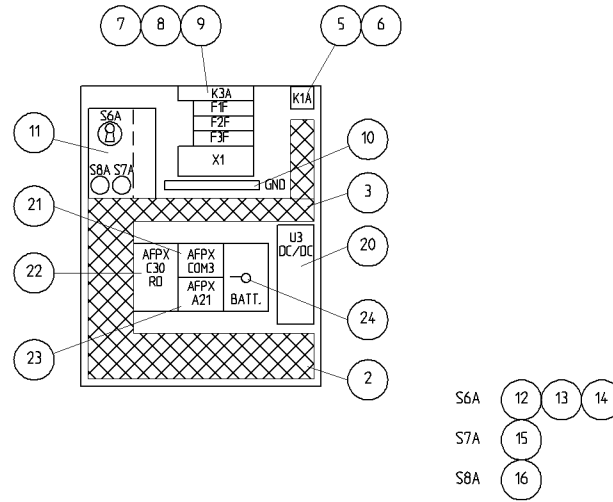
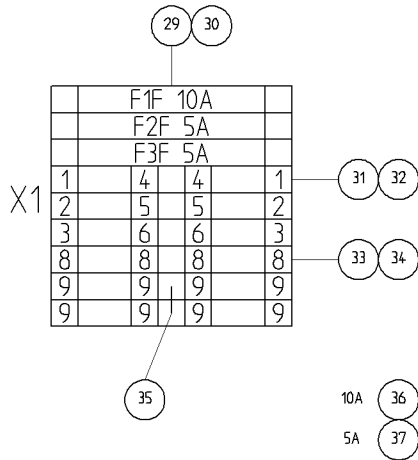
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230V - 50Hz



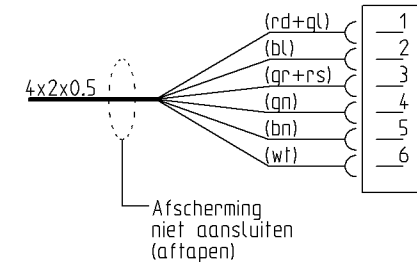
KLEMMENKAST KLEMMENKASTEN CONNECTION BOX



WARTEL KABELEINF. GLAND NR.	KLEM KLEMMEN TERMINAL NR	FUNKTIE	FUNKTION	FUNCTION
1.1	Y2-GND	Sturen Links	Lenken Links	Steering Left
1.2	Y3-GND	Sturen Rechts	Lenken Rechts	Steering Right
1.3	Y4-GND	Heffen	Heben	Lift Up
1.4	Y5-GND	Rijden	Fahren	Driving
1.5	Y6-GND	Rijden Achteruit	Fahren Rueckwaerts	Driving Reverse
1.6	Y7-GND	Snelrijden	Schnell Fahren	Driving Fast
1.7	Y8-GND	Veiligheids Ventiel	Sicherheitsventil	Safety Valve
2.1	Y8-GND	Daten	Senken	Lift Down
2.2	φ ⁹ -GND-X4	Scheefstand	Neigung	Inclination
2.3	φ ⁹ -XD-RES	Acculader	Akkuladegeraet	Battery Charger
2.4	φ ⁹ -GND-φ ⁹ -Y1	Accumeter	Akkumeter	Batterymeter
2.5	φ ⁹ -X0	Kantel Beveiliging	Kipp Schutz	Turn Over Protection
3.1	φ ⁹ -RES-V-Y1	Mosfet Motorregeling	Mosfet Motorregelung	Mosfet Motor Control
3.2	F1F-GND	Accu +/- 24VDC	Akku +/- 24VDC	Battery +/- 24VDC
4.1	φ ⁸ -GND-V0	Hoekmeting	Winkel Messung	Angle Measuring
4.2	φ ⁸ -V1	Druk Meting	Druck Messung	Pressure Measuring
4.3	DIV/VAR	Aanst. 6P Platform	Anschl. 6P Plattform	Conn. 6P Platform
5.1	Y9-GND	Zwaailamp	Blitzleuchte	Flashlight
5.2	Y9-GND	Zwaailamp	Blitzleuchte	Flashlight

Colour schedule			
Colour	Dutch	English	Deutsch
Rd	Rood	Red	Rot
Bl	Blauw	Blue	Blau
Gl	Geel	Yellow	Gelb
Gn	Groen	Green	Gruen
Zw	Zwart	Black	Schwarz
Wt	Wit	White	Weiss
Bn	Bruin	Brown	Braun
Rs	Roze	Pink	Rosa
Or	Oranje	Orange	Orange
Ps	Paars	Violet	Violett
Tp	Transp.	Transp.	Transp.
Gs	Grijs	Grey	Grau

AANSluiting OP PLATFORM
ANSCHLUSS AUF PLATTFORM
CONNECTION ON PLATFORM



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Kasten/Bekabelung
Kasten/Bekabelung
Boxes/Cables

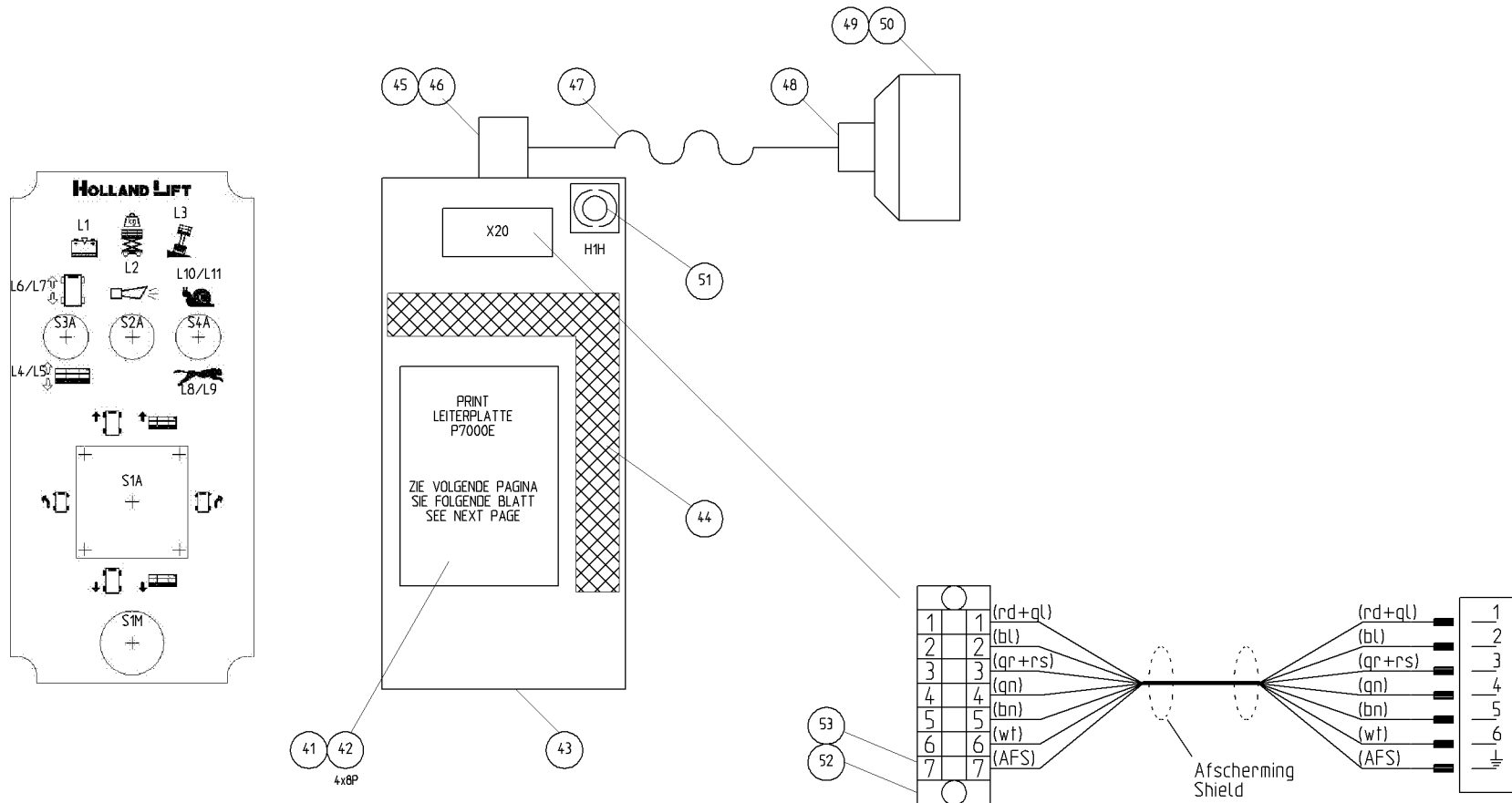
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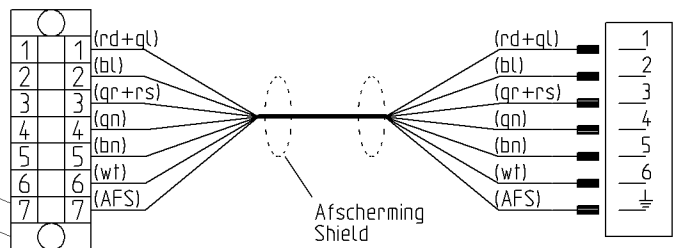
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BEDIENINGSKAST STEUERPULT CONTROL BOX



- S1M (39, 40)
- S1A (41)
- S2A-S4A (42)
- L1-L10 (43)
- STICKER (38)

- 41
- 42
- 43



Colour schedule			
Colour	Dutch	English	Deutsch
Rd	Rood	Red	Rot
Bl	Blauw	Blue	Blau
Gl	Geel	Yellow	Gelb
Gn	Groen	Green	Gruen
Zw	Zwart	Black	Schwarz
Wt	Wit	White	Weiss
Bn	Bruin	Brown	Braun
Rs	Roze	Pink	Rosa
Or	Oranje	Orange	Orange
Ps	Paars	Violet	Violett
Tp	Transp.	Transp.	Transp.
Gs	Grijs	Grey	Grau

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 Boxes/Cables

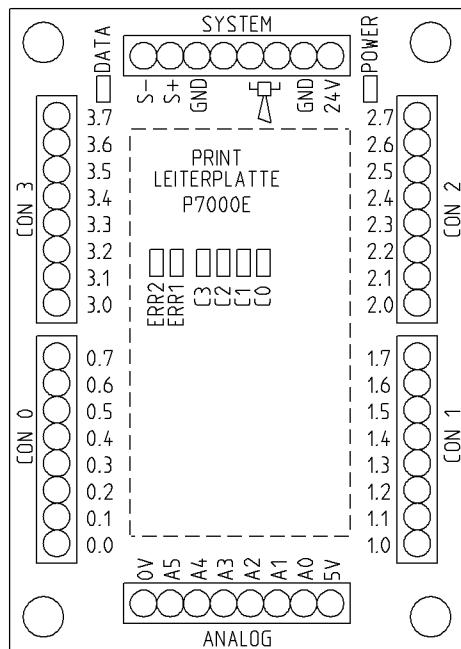
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PRINTPLAAT
LEITERPLATTE
CIRCUIT BOARD



Power	<input type="checkbox"/> Groen/Gruen/Green	Voeding Ok	Speisung Ok	Supply Ok
Data	<input type="checkbox"/> Geel/Getb./Yellow	Data Ok	Data Ok	Data Ok
Err1	<input type="checkbox"/> Rood/Rot/Red	Slechte Data Verbinding	Schlechte Data Verbindung	Poor Data Connection
Err2	<input type="checkbox"/> Rood/Rot/Red	Geen Data Verbinding	Keine Data Verbindung	No Data Connection
C3	<input type="checkbox"/> Geel/Getb./Yellow	Input CON 3	Eingang CON 3	Input CON 3
C2	<input type="checkbox"/> Geel/Getb./Yellow	Input CON 2	Eingang CON 2	Input CON 2
C1	<input type="checkbox"/> Geel/Getb./Yellow	Input CON 1	Eingang CON 1	Input CON 1
C0	<input type="checkbox"/> Geel/Getb./Yellow	Input CON 0	Eingang CON 0	Input CON 0

CON A 0V	GND Joystick	GND Joystick	GND Joystick
CON A A5	Reserve	Reserve	Spare
CON A A4	Reserve	Reserve	Spare
CON A A3	0,5-4,5V Joystick P4	0,5-4,5V Joystick P4	0,5-4,5V Joystick P4
CON A A2	0,5-4,5V Joystick P3	0,5-4,5V Joystick P3	0,5-4,5V Joystick P3
CON A A1	0,5-4,5V Joystick P2	0,5-4,5V Joystick P2	0,5-4,5V Joystick P2
CON A A0	0,5-4,5V Joystick P1	0,5-4,5V Joystick P1	0,5-4,5V Joystick P1
CON A 5V	Voeding +5V Joystick	Speisung +5V Joystick	Supply +5V Joystick

CON 1 1.0	Snelheid (S4A)	Geschwindigkeit (S4A)	Speed (S4A)
CON 1 1.1	Claxon (S2A)	Hupe (S2A)	Horn (S2A)
CON 1 1.2	Heffen/Rijden (S3A)	Heben/Fahren (S3A)	Lift Up/Driving (S3A)
CON 1 1.3	Reserve	Reserve	Spare
CON 1 1.4	Reserve	Reserve	Spare
CON 1 1.5	Reserve	Reserve	Spare
CON 1 1.6	Reserve	Reserve	Spare
CON 1 1.7	Reserve	Reserve	Spare

CON 2 2.0	Reserve	Reserve	Spare
CON 2 2.1	Snel (L8/L9)	Schnell (L8/L9)	Fast (L8/L9)
CON 2 2.2	Lift Mode (L4/L5)	Lift Mode (L4/L5)	Lift Mode (L4/L5)
CON 2 2.3	Langzaam (L10/L11)	Langsam (L10/L11)	Slow (L10/L11)
CON 2 2.4	Drive Mode (L6/L7)	Drive Mode (L6/L7)	Drive Mode (L6/L7)
CON 2 2.5	Overload (L2)	Ueberlastung (L2)	Overload (L2)
CON 2 2.6	Scheefstand (L3)	Neigung (L3)	Inclination (L3)
CON 2 2.7	Accu leeg (L1)	Akku leer (L1)	Battery empty (L1)

CON SYS 0.0	Voeding +24V (S1M)	Speisung +24V (S1M)	Supply +24V (S1M)
CON SYS 0.1	GND	GND	GND
CON SYS 0.2	+ Zoemer H1H	+ Summer H1H	+ Buzzer H1H
CON SYS 0.3	- Zoemer H1H	- Summer H1H	- Buzzer H1H
CON SYS 0.4	Reserve	Reserve	Spare
CON SYS 0.5	Reserve	Reserve	Spare
CON SYS 0.6	Data S+ (RS485)	Data S+ (RS485)	Data S+ (RS485)
CON SYS 0.7	Data S- (RS485)	Data S- (RS485)	Data S- (RS485)

CON 3 3.0	Reserve	Reserve	Spare
CON 3 3.1	Reserve	Reserve	Spare
CON 3 3.2	Reserve	Reserve	Spare
CON 3 3.3	Reserve	Reserve	Spare
CON 3 3.4	Reserve	Reserve	Spare
CON 3 3.5	Reserve	Reserve	Spare
CON 3 3.6	Reserve	Reserve	Spare
CON 3 3.7	Reserve	Reserve	Spare

CON 0 0.0	Reserve	Reserve	Spare
CON 0 0.1	Reserve	Reserve	Spare
CON 0 0.2	Reserve	Reserve	Spare
CON 0 0.3	Reserve	Reserve	Spare
CON 0 0.4	Reserve	Reserve	Spare
CON 0 0.5	Reserve	Reserve	Spare
CON 0 0.6	Reserve	Reserve	Spare
CON 0 0.7	Reserve	Reserve	Spare

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