

A
 φ AANSLUITKLEM KLEMMENKAST
 ANSCHLUSSKLEMME KLEMMKASTEN
 TERMINAL CONNECTION BOX
 AANSLUITKLEM BEDIENINGSKAST
 φ ANSCHLUSSKLEMME STEUERPULT
 TERMINAL CONTROL BOX

⊕ AANSLUITKLEM TRANSISTOR
 ANSCHLUSSKLEMME TRANSISTOR
 TERMINAL TRANSISTOR
 AANSLUITKLEM PLC
 ⊕ ANSCHLUSSKLEMME SPS
 TERMINAL PLC

φ AANSLUITKLEM PLC-SLAVE
 ANSCHLUSSKLEMME SPS-SLAVE
 TERMINAL PLC-SLAVE

TYPE		OMSCHRIJVING UMSCHREIBUNG DESCRIPTION	PLC PROG: SPS PROG: PLC PROG:
X105-E-092		FPX-NMR	X-E-03A
REV.	DATUM DATUM DATE	OPMERKING BEMERKUNG REMARK	

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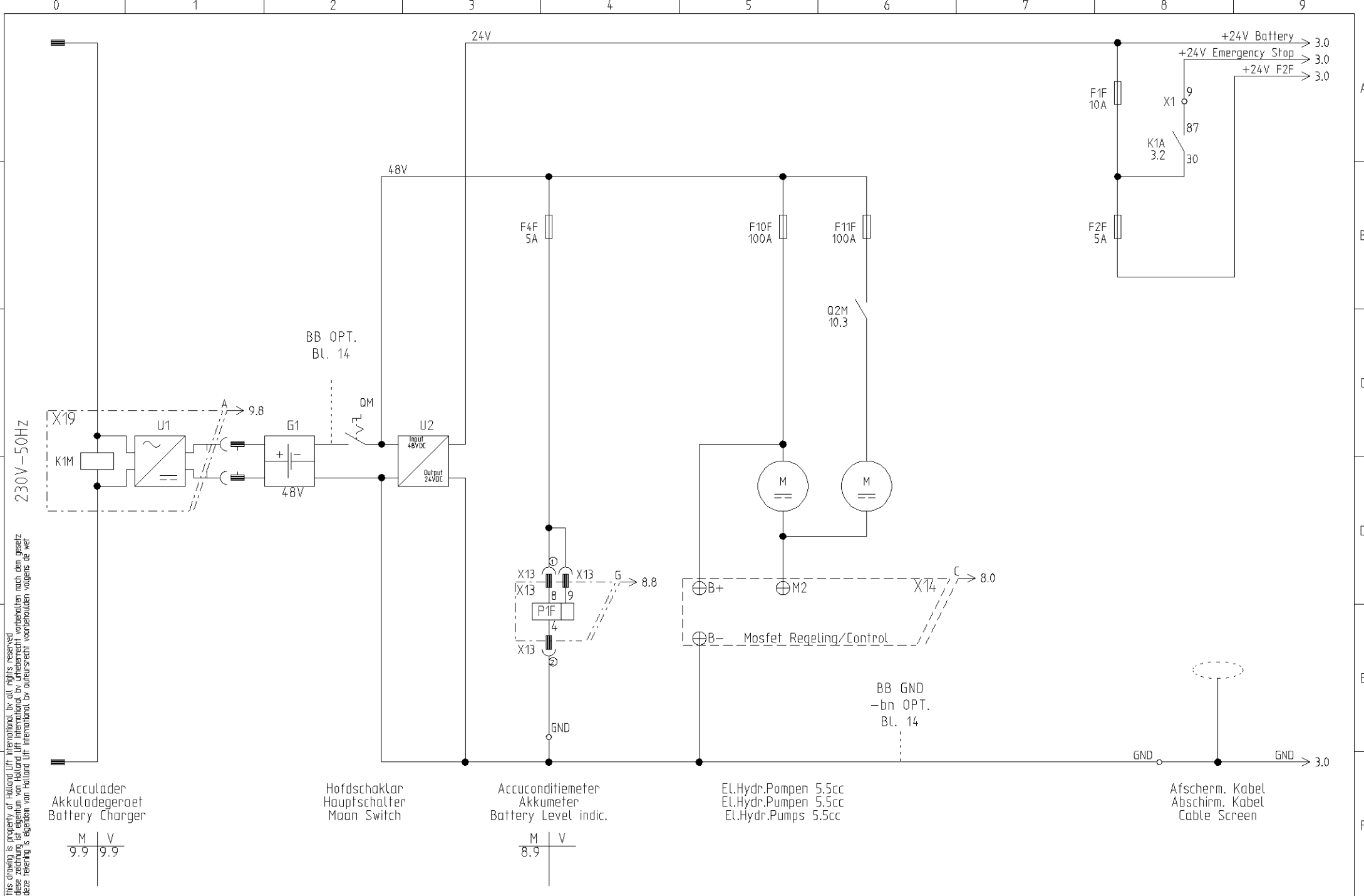


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INDEX BLAD
 INDEX BLATT
 INDEX SHEET

Projekt:	EX-21-001	Zeichnungsnummer:	Rev.:	erstellt von:
Datum:	11.01.2013	Anlage:	Ort:	Rothenbusch
		=	+	Blatt: 1

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Acculader
Akkuladegeraet
Battery Charger

M	V
9.9	9.9

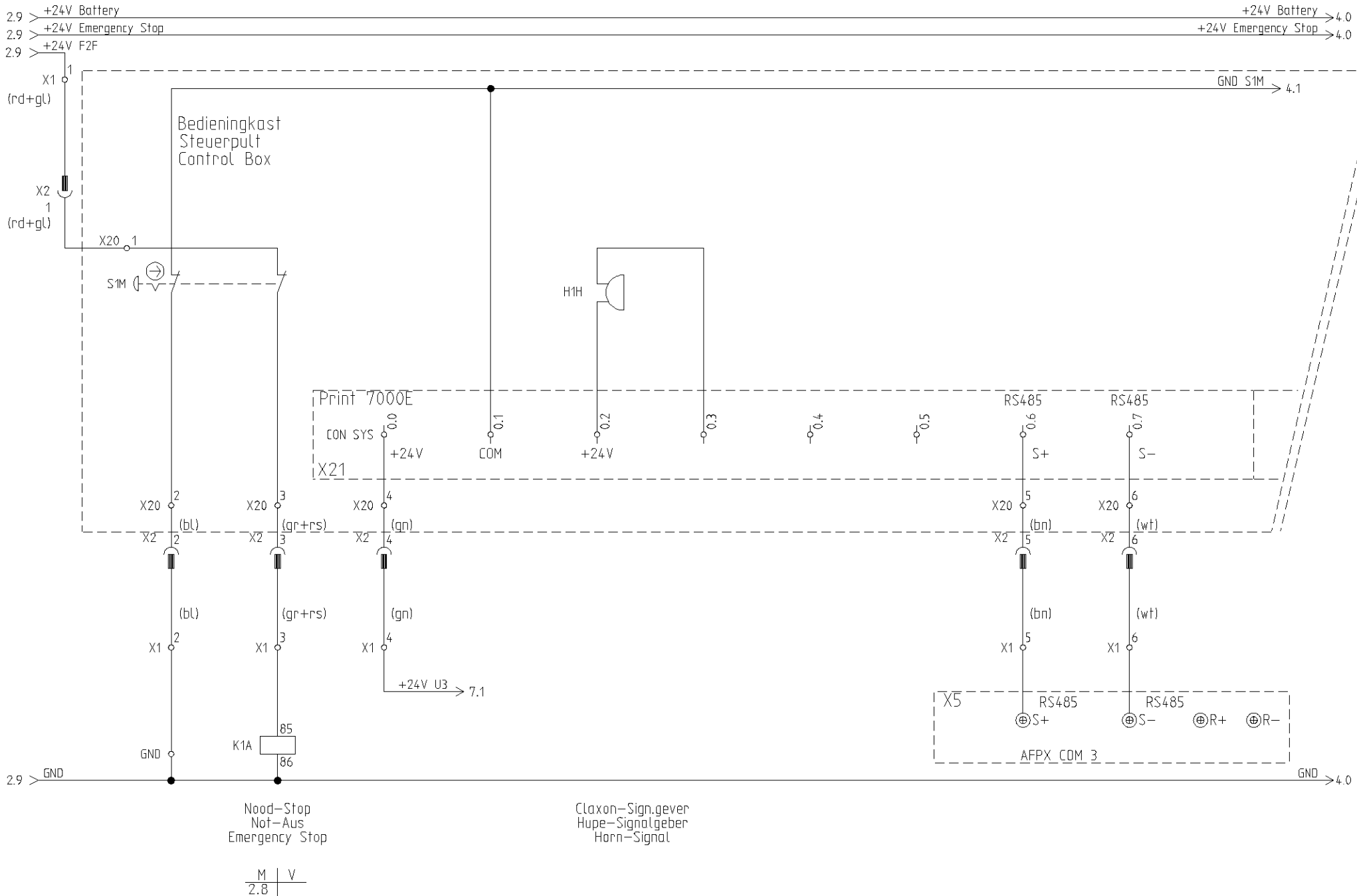
Hofdschaklar
Hauptschalter
Main Switch

Accuconditiometer
Akkumeter
Battery Level indic.

M	V
8.9	

EL.Hydr.Pompen 5.5cc
EL.Hydr.Pompen 5.5cc
El.Hydr.Pumps 5.5cc

Afscherm. Kabel
Abschirm. Kabel
Cable Screen



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Bedienpult
 CON SYSTEM

Projekt: EX-21-001
 Datum: 11.01.2013

Zeichnungsnummer:
 Anlage: =

Rev.:
 Ort: +

erstellt von:
 Rothenbusch
 Blatt: 3

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

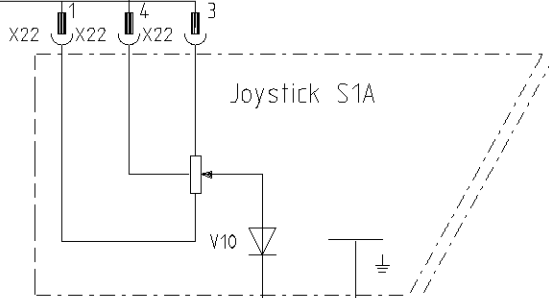
+24V Battery > 5.0
 +24V Emergency Stop > 5.0

3.9 > GND S1M

GND S1M > 5.1

Bedieningkast
 Steuerpult
 Control Box

Joystick S1A



CON A 0.0
 +5V

X21 Print 7000E

J1A 0.1

J1B 0.3

J2A 0.2

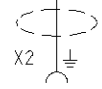
J2B 0.4

0.5

0.6

GND 0.7

X20 7
 (g/L/qn)



3.9 > GND

GND > 5.0

Analogwert Joystick
 Analogwert Joystick
 Analogwert Joystick

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Bedienpult
 CON ANALOG

Projekt: EX-21-001

Zeichnungsnummer:

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 Rothenbusch

Datum: 11.01.2013

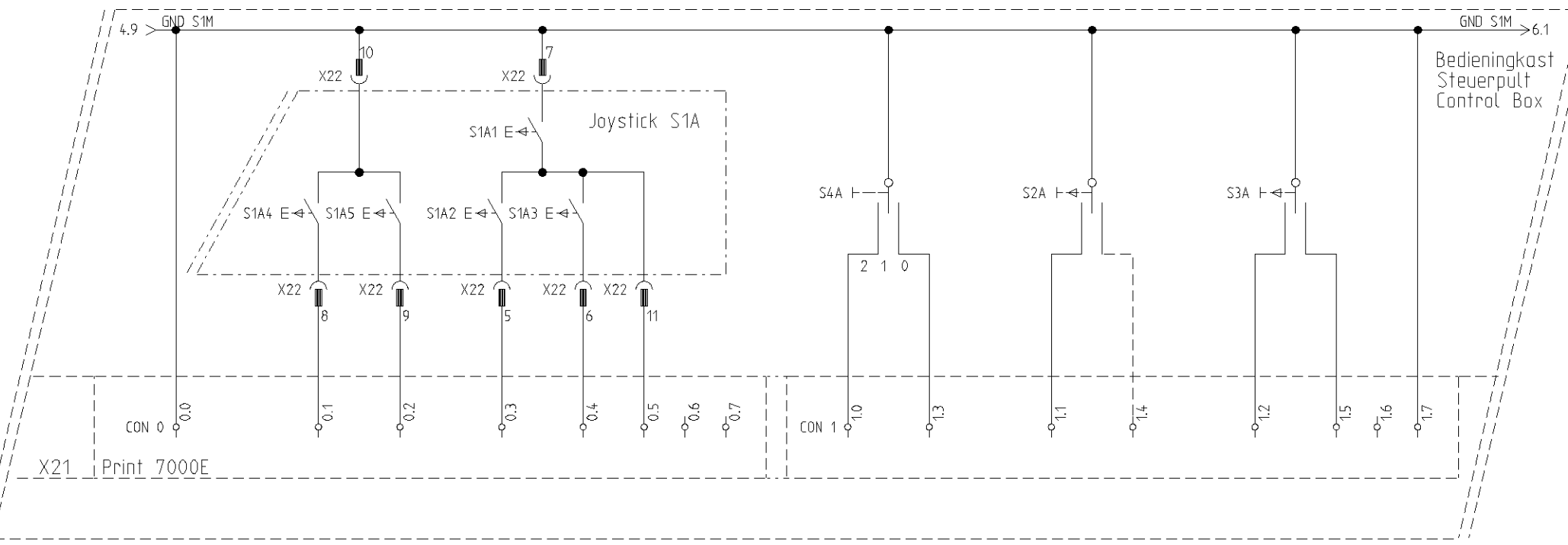
Anlage:

Ort:

Blatt: 4

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

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



S4A

0 = Langzaam	Langsam	Slow
1 = Normaal	Normal	Normal
2 = Snel	Schnell	Fast

4.9 > GND

GND > 6.0

Joystick 10

Links—Sturen—Rechts
 Links—Lenken—Rechts
 Left—Steering—Right

Op—Joystick—Neer
 Auf—Joystick—Nieder
 On—Joystick—Down

S1A1 Dodemansknop
 S1A1 Totmansknopf
 S1A1 Dead Man's Button

Heffen/Rijden
 Heben/Fahren
 Lift Up/Driving

Snelheid
 Geschwindigkeit
 Speed

Claxon—Sign.gever
 Hupe—Signalgeber
 Horn—Signal

Sper/Diff
 Sperr/Diff
 Slip/Diff
 Optie/Option

Heffen
 Heben
 Lift Up

Rijden
 Fahren
 Driving

X Pult

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Bedienpult
 CON 0 - 1

Projekt:
 EX-21-001

Zeichnungsnummer:

Rev.:

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 Rothenbusch

Datum:
 11.01.2013

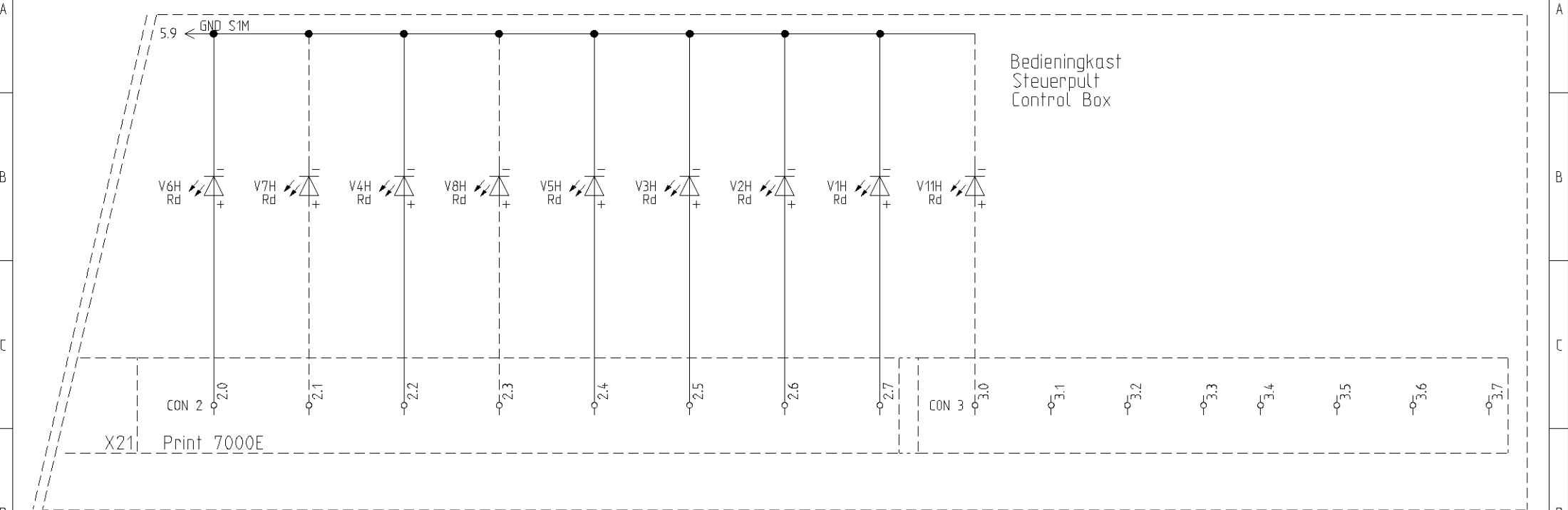
Anlage:

Ort:

Blatt:
 5

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

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



5.9 > GND

GND > 7.0

- Kantel Beveiliging
Kipp Schutz
Turn Over Protection
- Snel Schnell
Fast
Optie/Option
- Lift Mode
- Langzaam Langsam
Slow
Optie/Option
- Drive Mode
- Overload Ueberlastung
Overload
- Scheefstand Neigung
Grade/Slope
- Accu Leeg Akku Leer
Bat. Empty
- Sper/Diff Sperr/Diff
Slip/Diff
Optie/Option

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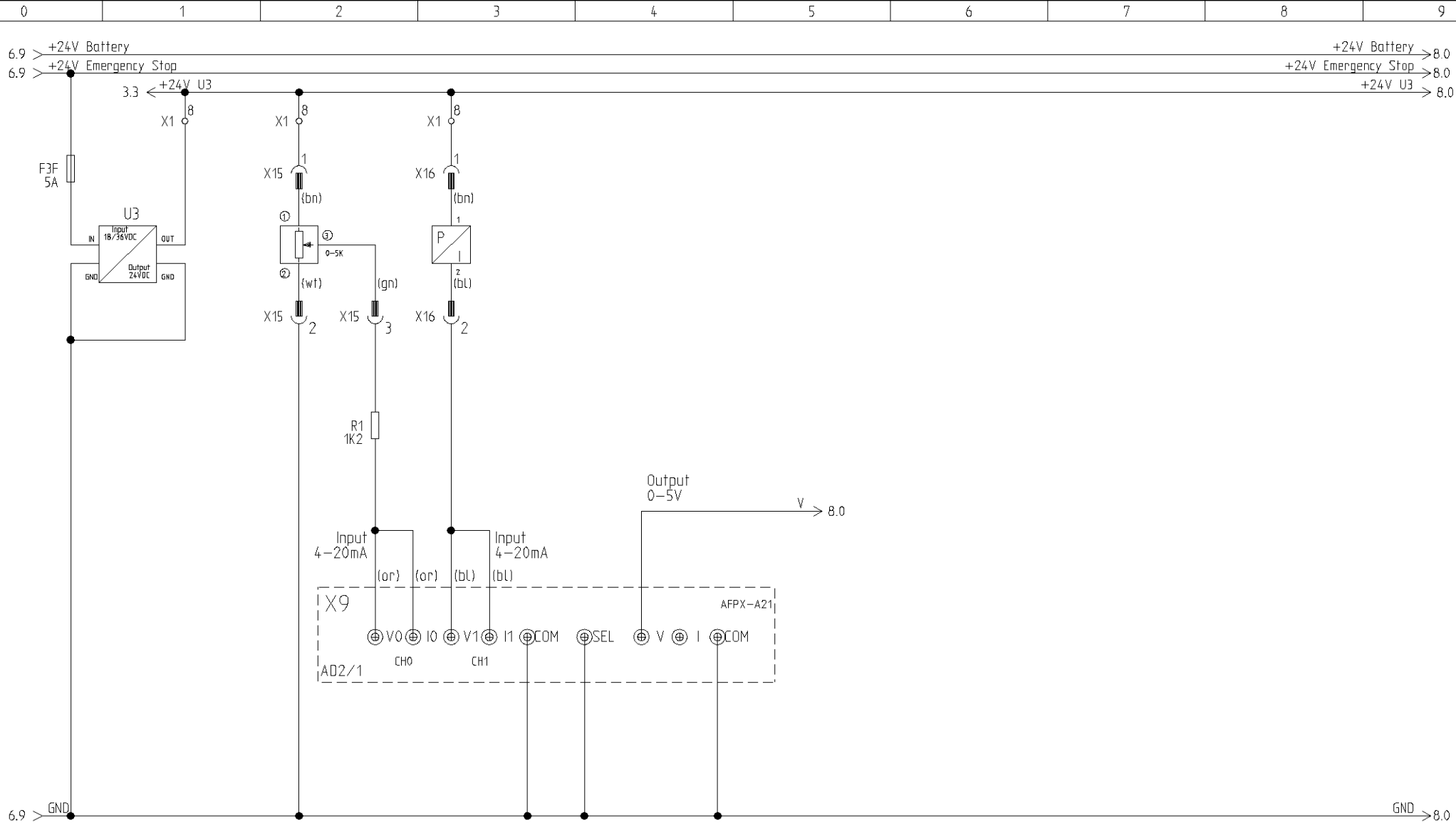


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Bedienpult
 Con 2 - 3

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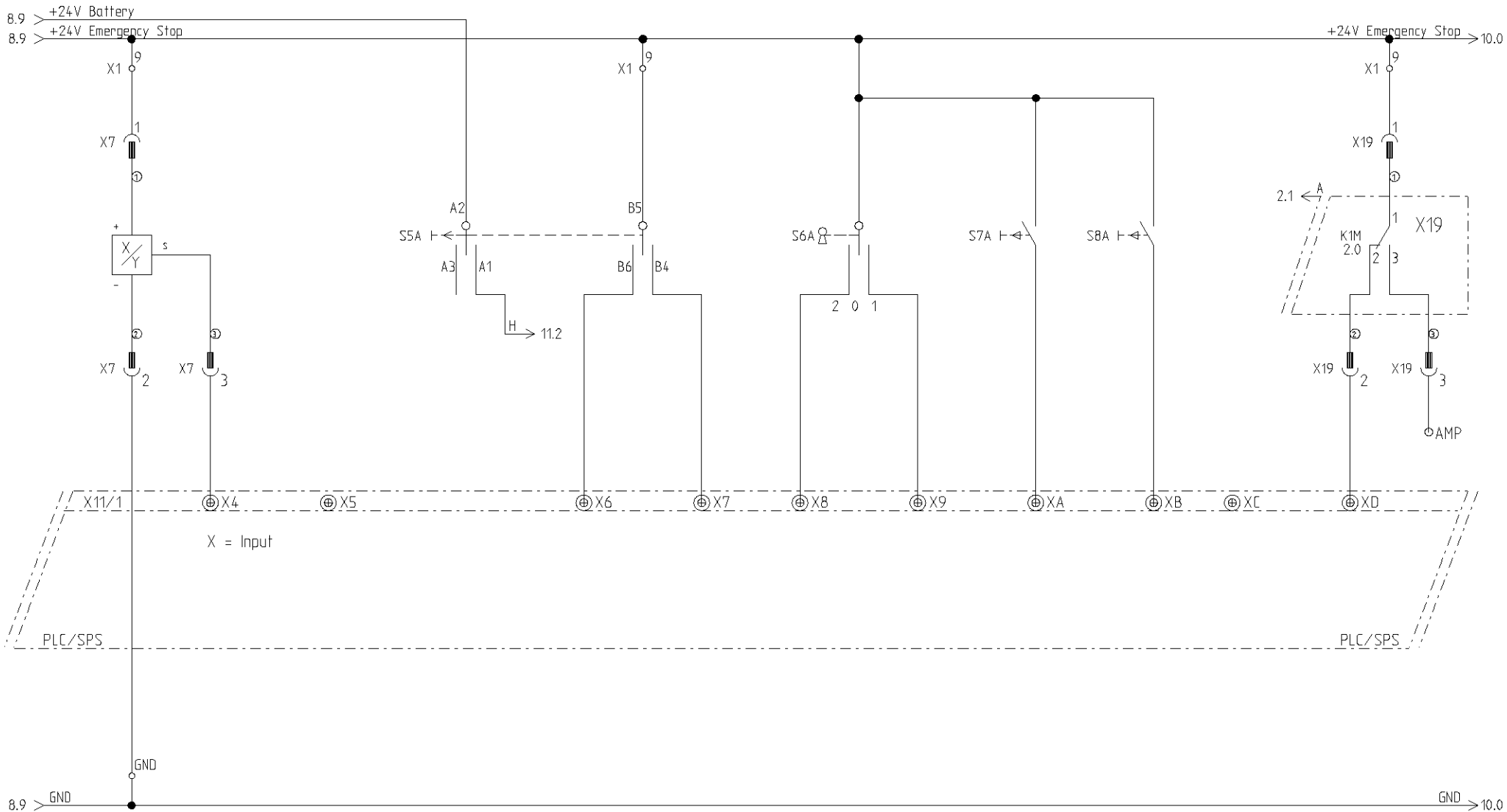
Hoekmeting Winkel Messung Angle Measuring
 Druk Meting Druck Messung Pressure Measuring



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Spannungswandler
Analogkarte

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Datum:	11.01.2013	Anlage:	Ort:	Rothenbusch
				Blatt: 7



- Scheefstand
Neigung
Grade/Slope
- Reserve
Reserve
Spare
- Dalen Onderwagen
Senken Chassis
Lift Down Chassis
- Heffen - Dalen
Heben - Senken
Lift Up - Lift Down
- Progr. Uit
Progr. Aus
Progr. Off
- Aan
An
On
- Store
Store
Store
- Save
Save
Save
- Reserve
Reserve
Spare
- Acculader
Akkuladegeraet
Battery Charger

—— Overlast-Ueberlastung-Overload ——

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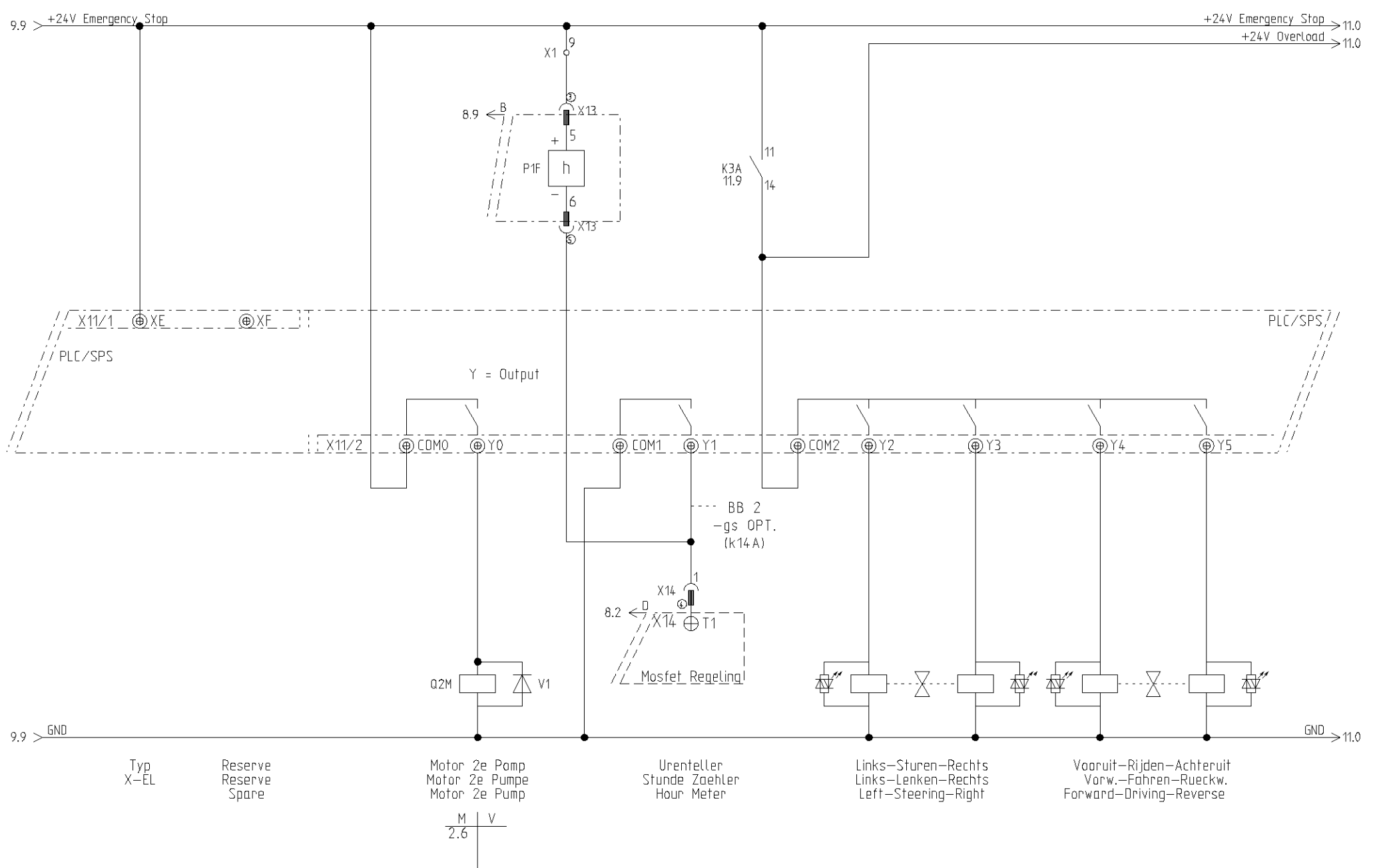


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SPS Input
X4 - XD

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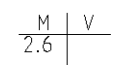
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Typ
X-EL

Reserve
Reserve
Spare

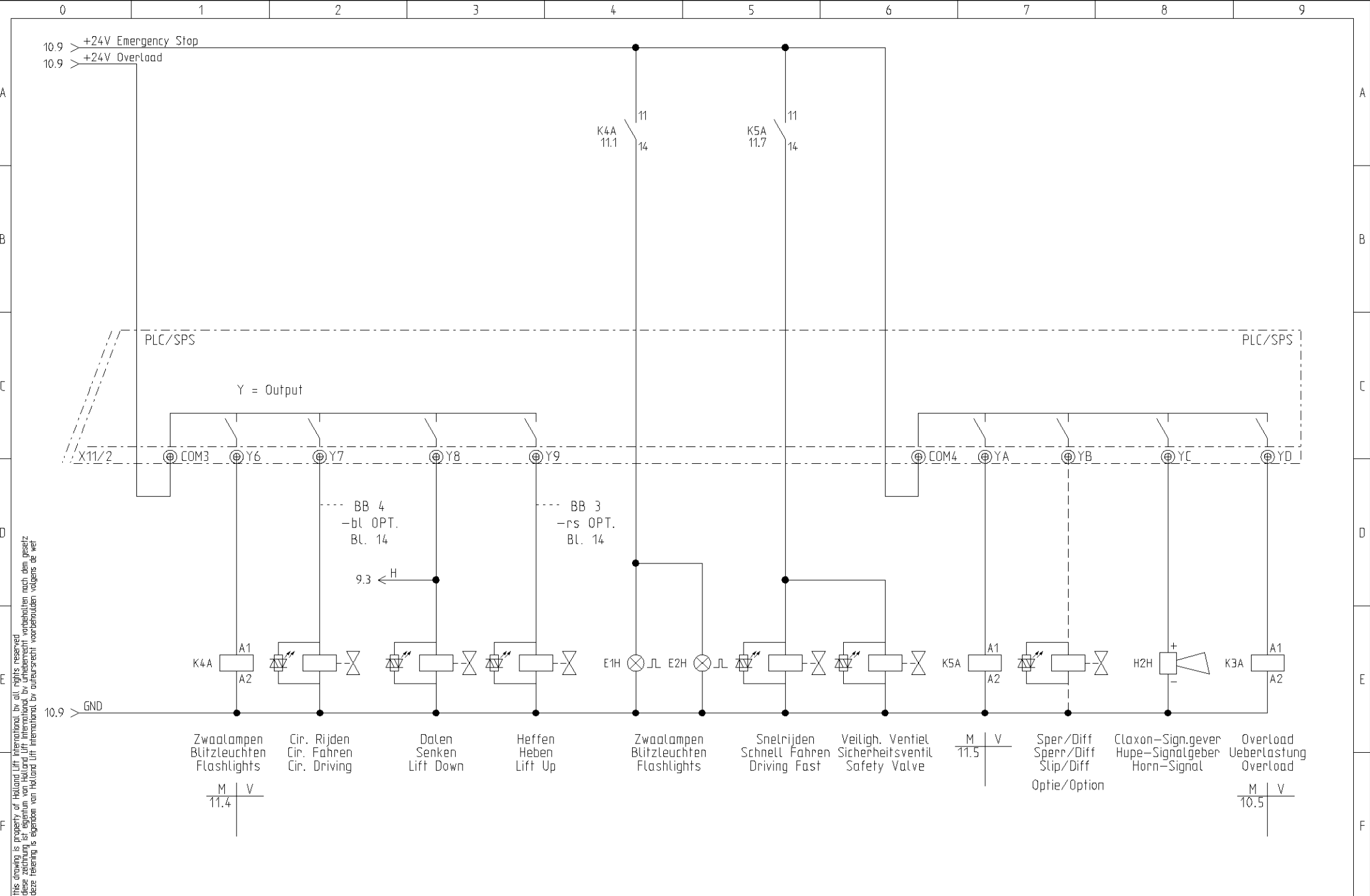
Motor 2e Pomp
Motor 2e Pumpe
Motor 2e Pump



Urenteller
Stunde Zaehler
Hour Meter

Links-Sturen-Rechts
Links-Lenken-Rechts
Left-Steering-Right

Vooruit-Rijden-Achteruit
Vorw.-Fahren-Rueckw.
Forward-Driving-Reverse



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SPS Output
Y6 - YD

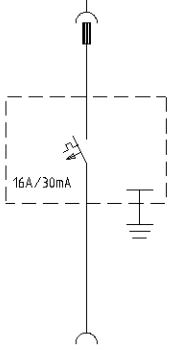
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Datum:	11.01.2013	Anlage:	Ort:	Rothenbusch
				Blatt:
				11

OPTIES
OPTIONEN
OPTIONS

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

<230VPLF>

230V-50Hz/115V-50Hz



AARDLEKATOMAAT
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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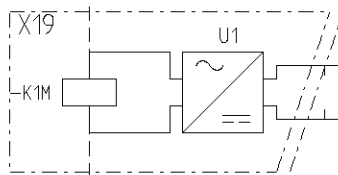
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Optionen

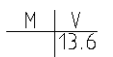
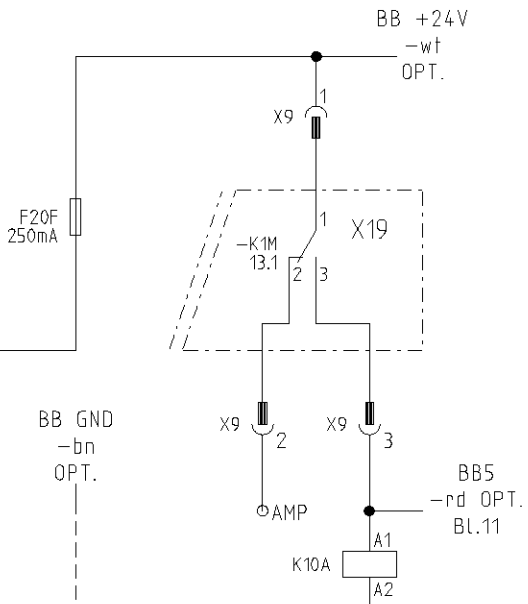
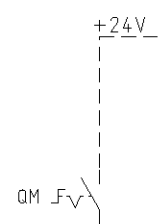
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Datum:	11.01.2013	Anlage:	Ort:	Blatt: 12

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230V-50Hz

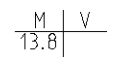
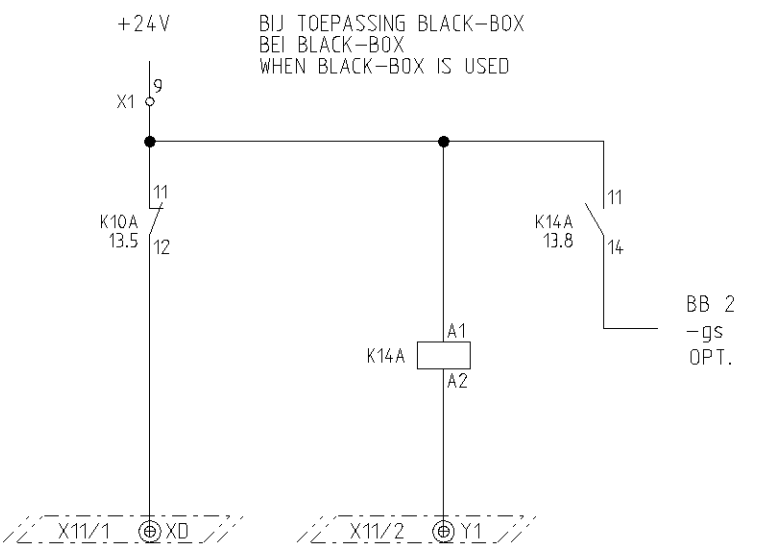


Acculader
Akkuladegeraet
Battery Charger



BELANGRIJK/WICHTIG/IMPORTANT

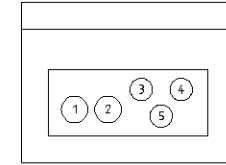
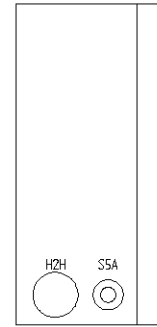
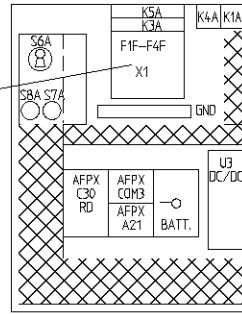
BIJ TOEPASSING BLACK-BOX
BEI BLACK-BOX
WHEN BLACK-BOX IS USED



KLEMMENKAST KLEMMENKASTEN CONNECTION BOX

X1

		F1F 10A	
		F2F 5A	
		F3F 5A	
		F4F 5A	
1	4	4	1
2	5	5	2
3	6	6	3
8	8	8	8
9	9	9	9
9	9	9	9



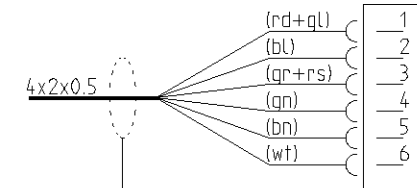
1-2 M25

3-5 M20

WARTEL KABELINF. GLAND NR.	KLEM KLEMME 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	Rijden Vooruit	Fahren Vorwaerts	Driving Forward
1.4	Y5-GND	Rijden Achteruit	Fahren Rueckwaerts	Driving Reverse
1.5	Y9-GND	Heffen	Heben	Lift Up
1.6	K5A-GND	Snelrijden	Schnell Fahren	Driving Fast
1.7	K5A-GND	Veiligheids Ventiel	Sicherheitsventil	Safety Valve
1.8	Y7-GND	Cir. Ventiel Rijden	Cir. Ventil Fahren	Cir. Valve Diving
1.9	Y8-GND	Sper/Diff. Ventiel Opt.	Sperr/Diff. Ventil Opt.	Slip/Diff. Valve Opt.
2.1	Y8-GND	Dalen	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
2.6	Y0-GND	Motor 2e Pomp (Q2M)	Motor 2e Pomp (Q2M)	Motor 2e Pomp (Q2M)
3.1	φ 9-RES-V-Y1	Mosfet Motorregeling	Mosfet Motorregelung	Mosfet Motor Control
3.2	F1F-GND	Accu +/- 24VDC	Akku +/- 24VDC	Battery +/- 24VDC
3.3	F4F-GND	Accu +/- 48VDC	Akku +/- 48VDC	Battery +/- 48VDC
4.1	φ 8-GND-VO	Hoekmeting	Winkel Messung	Angle Measuring
4.2	φ 8-V1	Druk Meting	Druck Messung	Pressure Measuring
4.3	K4A-GND	Zwaailamp	Blitzleuchte	Flashlight
4.4	K4A-GND	Zwaailamp	Blitzleuchte	Flashlight
5	DIV/VAR	Aansl. 6P Platform	Anschl. 6P Plattform	Conn. 6P Platform

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/Bekabeling
Kasten/Bekabelung
Boxes/Cables

Projekt: EX-21-001

Zeichnungsnummer:

Rev.:

erstellt von:
Rothenbusch

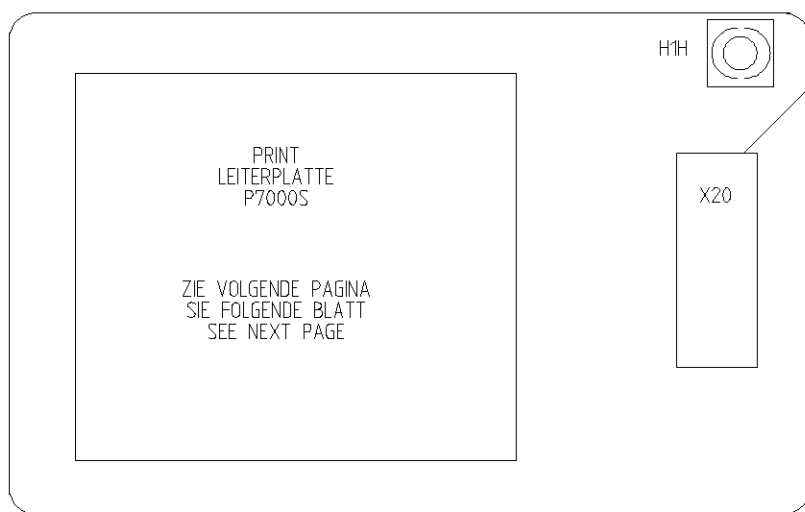
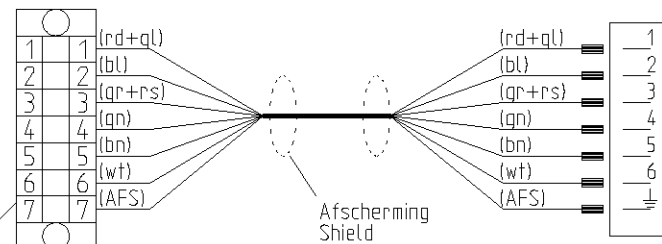
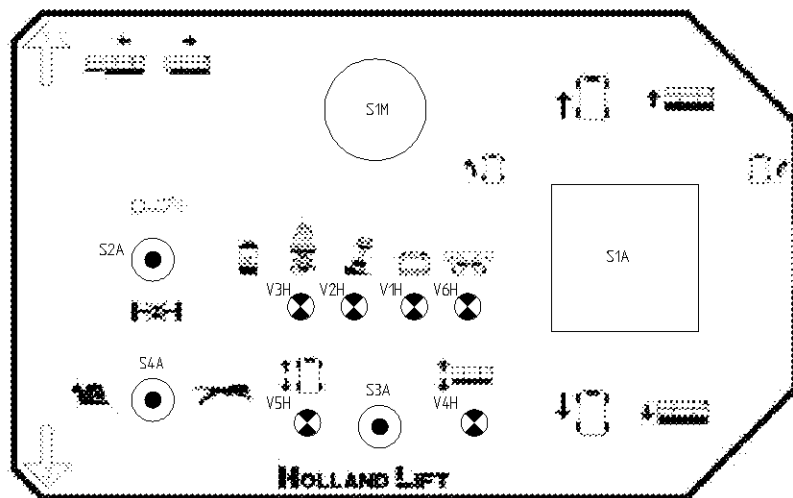
Datum: 11.01.2013

Anlage: =

Ort: +

Blatt: 14

BEDIENINGSKAST
STEUERPULT
CONTROL BOX



Colour schedule			
Colour	Dutch	English	Deutsch
Rd	Rood	Red	Rot
Bl	Blauw	Blue	Blau
Gt	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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Kasten/Bekabelung
 Kasten/Bekabelung
 Boxes/Cables

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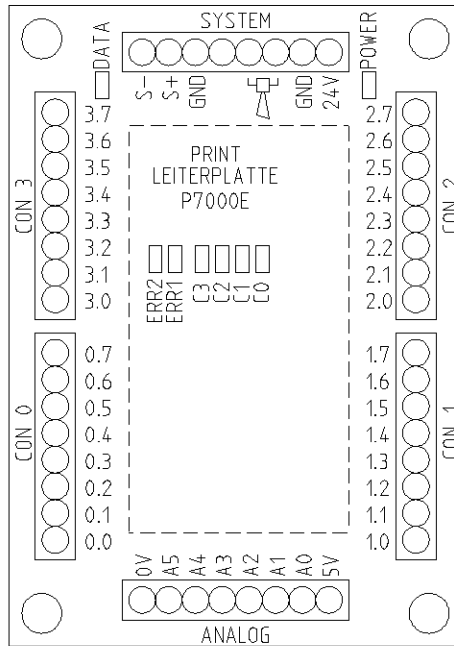
Datum: 11.01.2013

Anlage:

Ort:

Blatt: 15

PRINTPLAAT
LEITERPLATTE
CIRCUIT BOARD



Power	<input type="checkbox"/> Groen/Gruen/Green	Vaeding Ok	Speisung Ok	Supply Ok
Data	<input type="checkbox"/> Geel/Gelb/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/Gelb/Yellow	Input CON 3	Eingang CON 3	Input CON 3
C2	<input type="checkbox"/> Geel/Gelb/Yellow	Input CON 2	Eingang CON 2	Input CON 2
C1	<input type="checkbox"/> Geel/Gelb/Yellow	Input CON 1	Eingang CON 1	Input CON 1
C0	<input type="checkbox"/> Geel/Gelb/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	Reserve	Reserve	Spare
CON A A2	Reserve	Reserve	Spare
CON A A1	Reserve	Reserve	Spare
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	Snel Rijden (S4A1)	Schnell Fahren (S3A1)	Driving Fast (S3A1)
CON 1 1.1	Claxon (S2A1)	Hupe (S2A1)	Horn (S2A1)
CON 1 1.2	Heffen (S3A1)	Heben (S3A1)	Lift up (S3A1)
CON 1 1.3	Langzaam Rij. (S4A2)	Langsam Fahren (S4A2)	Driving Slow (S4A1)
CON 1 1.4	Sper/Diff. (S2A2) Opt.	Sperr/Diff. (S2A2) Opt.	Slip/Diff. (S2A2) Opt.
CON 1 1.5	Rijden (S3A2)	Fahren (S3A2)	Driving (S3A2)
CON 1 1.6	Reserve	Reserve	Spare
CON 1 1.7	X-Pult	X-Pult	X-Pult

CON 2 2.0	Sper/Diff. (V6H) Opt.	Sperr/Diff. (V6H) Opt.	Slip/Diff. (V6H) Opt.
CON 2 2.1	Snel (V7H) Opt.	Schnell (V7H) Opt.	Fast (V7H) Opt.
CON 2 2.2	Lift Mode (V4H)	Lift Mode (V4H)	Lift Mode (V4H)
CON 2 2.3	Langzaam (V8H) Opt.	Langsam (V8H) Opt.	Slow (V8H) Opt.
CON 2 2.4	Drive Mode (V5H)	Drive Mode (V5H)	Drive Mode (V5H)
CON 2 2.5	Overload (V3H)	Ueberlastung (V3H)	Overload (V3H)
CON 2 2.6	Scheefstand (V2H)	Neigung (V2H)	Inclination (V2H)
CON 2 2.7	Accu leeg (V1H)	Akku leer (V1H)	Battery empty (V1H)

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	Joystick 10	Joystick 10	Joystick 10
CON 0 0.1	Rijden Vooruit (S1A2)	Fahren Vorwaerts (S1A2)	Driving Forward (S1A2)
CON 0 0.2	Rijden Achteruit (S1A3)	Fahren Rueck. (S1A3)	Driving Reverse (S1A3)
CON 0 0.3	Sturen Links (S1A4)	Lenken Links (S1A4)	Steering Left (S1A4)
CON 0 0.4	Sturen Rechts (S1A5)	Lenken Rechts (S1A5)	Steering Right (S1A5)
CON 0 0.5	Dodemansknop (S1A1)	Totmansknopf (S1A1)	Dead Man (S1A1)
CON 0 0.6	Reserve	Reserve	Spare
CON 0 0.7	Reserve	Reserve	Spare

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