FESTO

Circuit diagrams Schaltungsunterlagen

designation:	CP Lab
Bezeichnung:	CP Lab
Customer:	
Kunde:	
Plant identifier	S5M0T7CP Lab S7-IM155-6DP, HMI TP700 V6
Anlagenkennzeichen	CP Lab S7-IM155-6DP, HMI TP700 V6
remark:	V6 (HMI V2)
Bemerkung:	
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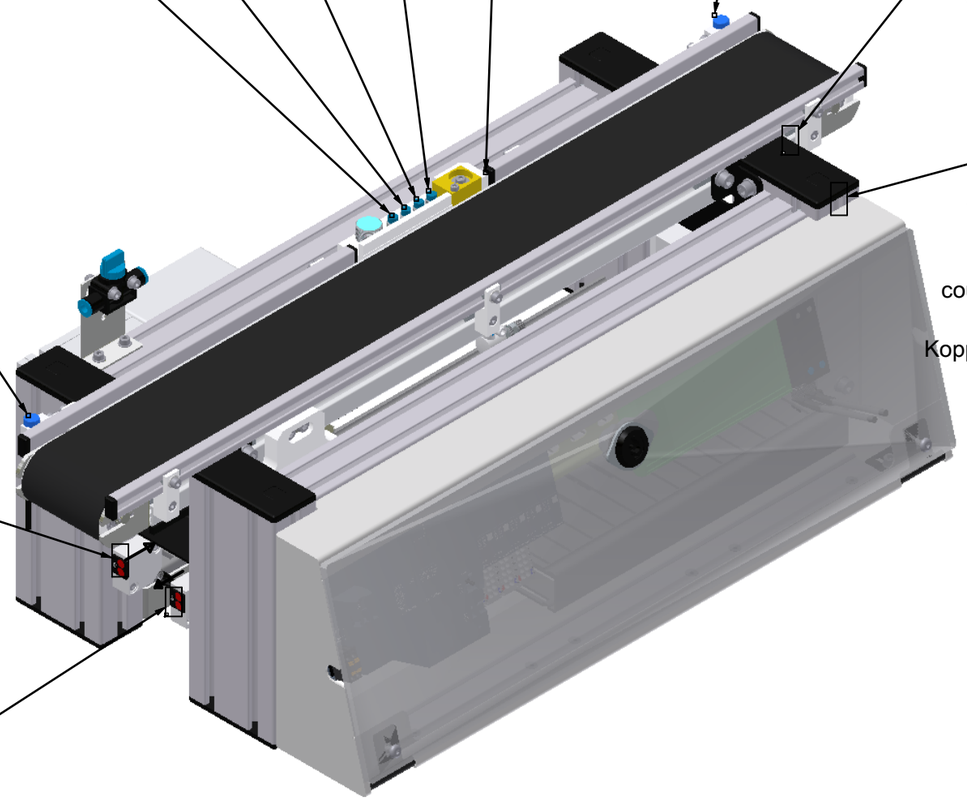


-BG4
150395
SIEN-M8NB-PS-S-L
1
/10.4
Identcode Bit 3
Identcode Bit 3
%I42.3

-BG3
150395
SIEN-M8NB-PS-S-L
2
/10.3
Identcode Bit 2
Identcode Bit 2
%I42.2

-BG2
150395
SIEN-M8NB-PS-S-L
3
/10.2
Identcode Bit 1
Identcode Bit 1
%I42.1

-BG1
150395
SIEN-M8NB-PS-S-L
4
/10.1
Identcode Bit 0
Identcode Bit 0
%I42.0

-BG9
574334
SMT-8M-A-PS-24V-E-0.3-M8D
5
/11.4
Stopper opened
Stopper geöffnet
%I42.7

-BG6
117066
6
/7.4
Pallet at
right end
Palette an
Bandende rechts
%I 1.7

-GF2
165353
SOEG-S-Q30-S-L
7
/11.6
coupling sender
right
Koppelsensor
Sender rechts
%Q42.5

-KG1
165323
SOEG-E-Q30-PS-S-2L
8
/11.1
coupling receiver right
(n.c.)
Koppelsensor Empfänger
rechts (Öffner)
%I42.4

-BG5
117066
9
/7.3
Pallet at
left end
Palette an
Bandende links
%I 1.6

-KG2
165323
SOEG-E-Q30-PS-S-2L
10
/11.2
coupling
receiver left (n.c.)
Koppelsensor Empfänger
links (Öffner)
%I42.5

-GF1
165353
SOEG-S-Q30-S-L
11
/11.5
coupling sender
left
Koppelsensor
Sender links
%Q42.4

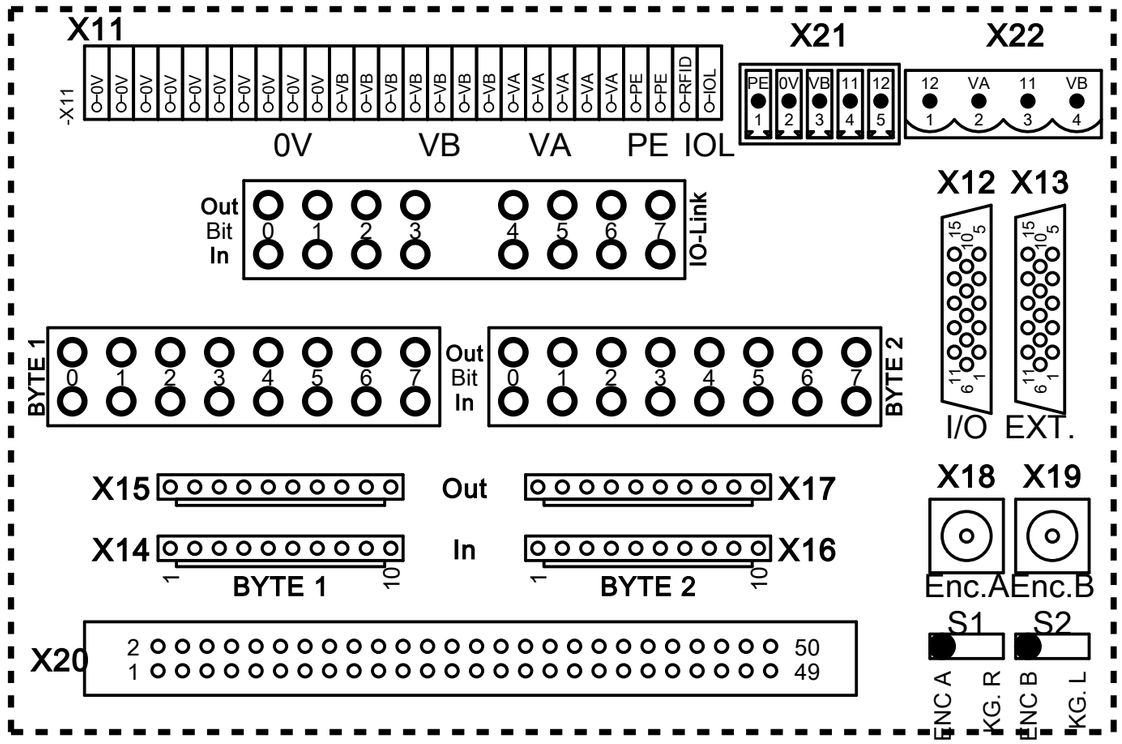
+P1

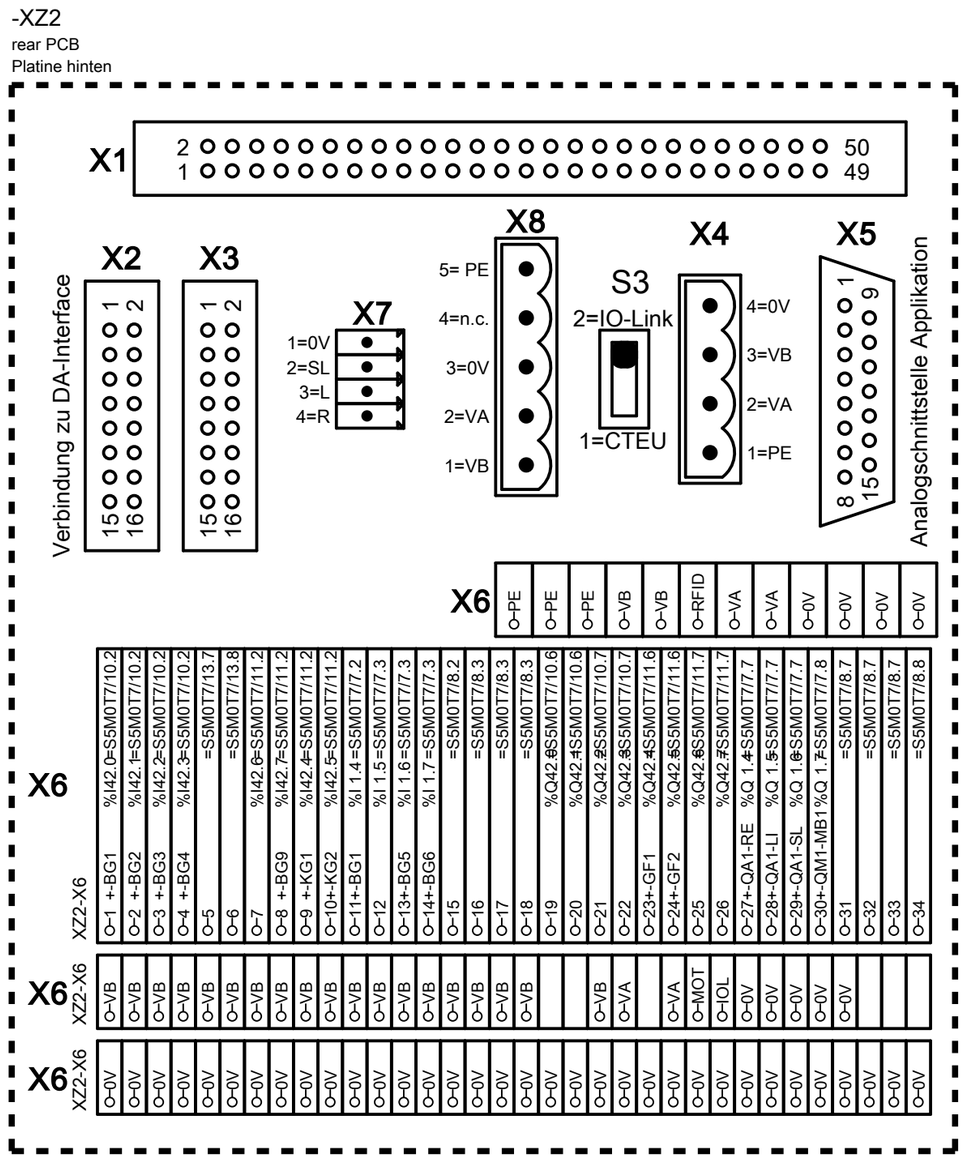
-X1 = power supply Stromversorgung
-X2 = Standardbedienung

<2 4>>

V3

PCB's Rev 2019-01
Platinen Rev 2019-01





-XZ1-X11 = terminals PCB front side Klemmen Platine vorne
-XZ1-X12 = controlpanel basic functions Bedienfeld Grundfunktionen
-XZ1-X13 = controlpanel additional buttons Bedienfeld Zusatztasten
-XZ1-X14 = Input-Byte 1 Eingangs-Byte 1
-XZ1-X15 = Output-Byte 1 Ausgangs-Byte 1
-XZ1-X16 = Input-Byte 2 Eingangs-Byte 2
-XZ1-X17 = Output-Byte 2 Ausgangs-Byte 2
-XZ1-X18 = incremental encoder BNC-Connector 1 Inkrementalgeber BNC-Anschluss 1
-XZ1-X19 = incremental encoder BNC-Connector 2 Inkrementalgeber BNC-Anschluss 2
-XZ1-X20 = connection to opposite PCB Verbindung zu gegenüberliegender Platine
-XZ1-X21 = Powersupply HMI HMI Stromversorgung
-XZ1-X22 = external Emergency-Stop Connector Not-Halt-Anschluss extern

-XZ1-X1 = connection to opposite PCB Verbindung zu gegenüberliegender Platine
-XZ2-X2 = connection 1 to DA-Interface Verbindung 1 zu DA-Interface
-XZ2-X3 = connection 2 to DA-Interface Verbindung 2 zu DA-Interface
-XZ2-X4 = power supply Stromversorgung
-XZ2-X5 = analog signals for application Analogsignale Applikationsmodul
-XZ2-X6 = terminals PCB rear side Klemmen Platine hinten
-XZ2-X7 = connection to external Motorcontroller Ansteuerung externer Motorregler
-XZ2-X8 = 24V application modules 24V Applikationsmodule

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SIE#6ES7155-6BA00-0CN0	SIE#6ES7193-6BP00-0DA0 SIE#6ES7131-6BF00-0CA0	SIE#6ES7193-6BP00-0DA0 SIE#6ES7131-6BF00-0CA0	SIE#6ES7193-6BP00-0DA0 SIE#6ES7132-6BF00-0CA0	SIE#6ES7193-6BP00-0DA0 SIE#6ES7132-6BF00-0CA0	SIE#6ES7193-6BP00-0DA0 SIE#6ES7137-6BD00-0BA0
/6.0	/7.0	/6.5	/7.5	/9.0	
-KF1	-KF2	-KF3	-KF4	-KF5	-KF6	-KF7
ET200SP IM 155-6 DP HF DP 4 6ES7155-6BA00-0CN0	DI HF 8x 24VDC 6ES7131-6BF00-0CA0	DI HF 8x 24VDC 6ES7131-6BF00-0CA0	DO HF 8x 24VDC 0,5A 6ES7132-6BF00-0CA0	DO HF 8x 24VDC 0,5A 6ES7132-6BF00-0CA0	CM 4x IO-Link ST 6ES7137-6BD00-0BA0	**Servermodule** component of interfacemodule
	BU15-P16+A0+2D 6ES7193-6BP00-0DA0	BU15-P16+A0+2D 6ES7193-6BP00-0DA0	BU15-P16+A0+2D 6ES7193-6BP00-0DA0	BU15-P16+A0+2D 6ES7193-6BP00-0DA0	BU15-P16+A0+2D 6ES7193-6BP00-0DA0	
1L+ 2L+ 1M 2M Port1	I0 1 2 I1 I2 3 4 I3 I4 5 6 I5 I6 7 8 I7 L+ 9 10 L+ L+ 11 12 L+ L+ 13 14 L+ L+ 15 16 L+ P24V M	I0 1 2 I1 I2 3 4 I3 I4 5 6 I5 I6 7 8 I7 L+ 9 10 L+ L+ 11 12 L+ L+ 13 14 L+ L+ 15 16 L+ P24V M	Q0 1 2 Q1 Q2 3 4 Q3 Q4 5 6 Q5 Q6 7 8 Q7 M 9 10 M M 11 12 M M 13 14 M M 15 16 M P24V M	Q0 1 2 Q1 Q2 3 4 Q3 Q4 5 6 Q5 Q6 7 8 Q7 M 9 10 M M 11 12 M M 13 14 M M 15 16 M P24V M	CQ0 1 2 CQ1 CQ2 3 4 CQ3 5 6 7 8 L+0 9 10 L+1 L+2 11 12 L+3 M0 13 14 M1 M2 15 16 M3 P24V M	

-PE1 1 X11

-XZ1
front PCB
Platine vorne

PE VB 0V VB VB 0V 0V 0V 0V VB 0V

-XZ2
rear PCB
Platine hinten

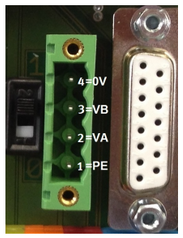
0V 24V 24NA PE

X4: 0V 4, VB 3, VA 2, PE 1

-X8: 24VB 1, 24VA 2, 0VB 3, n.c. 4, PE 5

X6: PE PE PE VA VA VB VB 0V 0V 0V 0V

24VB / 6.1
0V / 6.1
PE / 6.1
24VA / 6.1



-X0 0V 24V PE

supply 24V DC / 2A
Versorgung 24V DC / 2A

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Date	28.11.2019	Festo Didactic SE Rechbergstraße 3 D-73770 Denkendorf	FESTO	assembly PLC Aufbauplan SPS	S-Nr.		
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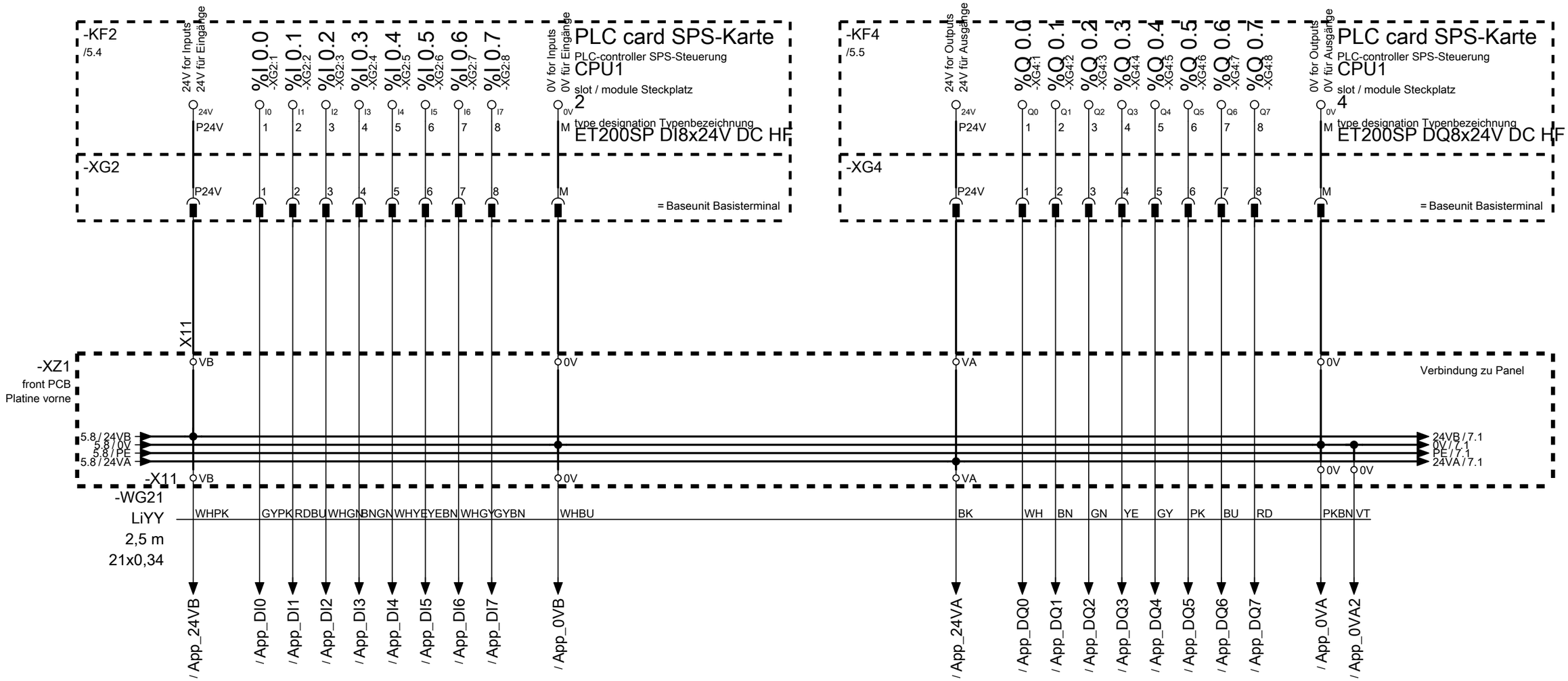

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Date	28.11.2019	Festo Didactic SE Rechbergstraße 3 D-73770 Denkendorf	FESTO	application - Byte 0 Applikation - Byte 0	S-Nr.		
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-KF3
/5.4

PLC card SPS-Karte
PLC-controller SPS-Steuerung
CPU1
slot / module Steckplatz 3
type designation Typenbezeichnung
ET200SP DI8x24V DC HF

24V for Inputs 24V für Eingänge
0V for Inputs 0V für Eingänge

	start	Stop	0=Auto/F1 1=Man./F2	reset	Identcode Bit 0	Emergency-Stop enabled	Pallet at left end	Pallet at right end
%I 1.0	%I 1.1	%I 1.2	%I 1.3	%I 1.4	%I 1.5	%I 1.6	%I 1.7	
+P1-SF1	+P1-SF2	+P1-SF3	+P1-SF4	-BG1	-24VA	-BG5	-BG6	
I0	I1	I2	I3	I4	I5	I6	I7	
1	2	3	4	5	6	7	8	

24V P24V M 0V

-XG3
P24V 1 2 3 4 5 6 7 8 M
= Baseunit Basisterminal

-KF5
/5.6

PLC card SPS-Karte
PLC-controller SPS-Steuerung
CPU1
slot / module Steckplatz 5
type designation Typenbezeichnung
ET200SP DQ8x24V DC HF

24V for Outputs 24V für Ausgänge
0V for Outputs 0V für Ausgänge

	start	reset	Special function Q1	Special function Q2	transport direction to right	transport direction to left	transport slow speed	open Stopper
%Q 1.0	%Q 1.1	%Q 1.2	%Q 1.3	%Q 1.4	%Q 1.5	%Q 1.6	%Q 1.7	
+P1-PF1	+P1-PF2	+P1-PF3	+P1-PF4	-QA1-RE	-QA1-LI	-QA1-SL	-QM1-MB1	
Q0	Q1	Q2	Q3	Q4	Q5	Q6	Q7	
1	2	3	4	5	6	7	8	

24V P24V M 0V

-XG5
P24V 1 2 3 4 5 6 7 8 M
= Baseunit Basisterminal

-WG3 GY BK BN RD OR YE GN BU VT WH
X14 9 1 2 3 4 5 6 7 8 10

-WG5 GY BK BN RD OR YE GN BU VT WH
X15 9 1 2 3 4 5 6 7 8 10

-XZ1
front PCB
Platine vorne

PI0 / 14.0
PI1 / 14.0
PI2 / 14.0
PI3 / 14.0

Verbindung zu Panel
PQ0 / 14.0
PQ1 / 14.0
PQ2 / 14.0
PQ3 / 14.0

6.9 / 24VB
6.9 / 0V
6.9 / PE
6.9 / 24VA

24VB / 8.1
0V / 8.1
PE / 8.1
24VA / 8.1

-XZ2
rear PCB
Platine hinten

ME / 13.0

-X6 VB 0V 11 VB 0V 12 VB 0V 13 VB 0V 14 27 0V 28 0V 29 0V 30 0V

X7 0V SL L R
1 2 3 4

Bit0
10.1

E1.5
9.7

BN BU BK

-BG5
KAP M12
117066
%I 1.6
BN BU BK

-BG6
KAP M12
117066
%I 1.7
BN BU BK

R
13.3

L
13.3

SL
13.3

-QM1-MB1
/16.1
x1
x2

Pallet at left end
Palette an Bandende links

Pallet at right end
Palette an Bandende rechts

open Stopper
Stopper öffnen

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Date	28.11.2019	Festo Didactic SE Rechbergstraße 3 D-73770 Denkendorf	FESTO	PCB - Byte 1 Platine - Byte 1	S-Nr.		
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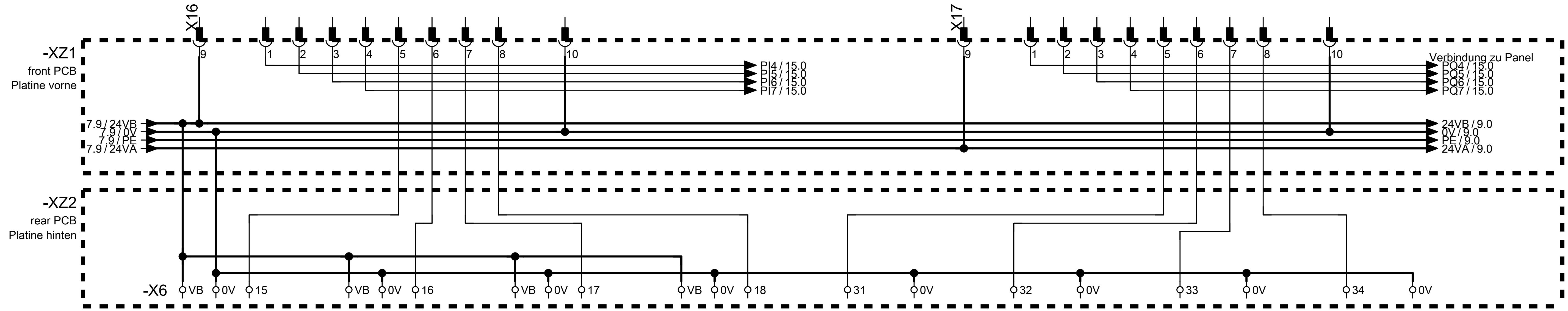

Date	28.11.2019	Festo Didactic SE	FESTO	PCB - Byte 2
Ed. by.	espe	Rechbergstraße 3		Platine - Byte 2
Creat.	espe	D-73770 Denkendorf		
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S-Nr.

PSP / DPJ VN

= S5M0T7 CP Lab S7-IM155-6DP, HMI TP700

+

PS Status of the operating voltage supply (power system)
X1,X2 Status of the internal communication ("I-Port Device 1" / "I-Port Device 2")
NF Network status/network failure (Network Failure)
TP1,TP2 Connection status ("Link1" / "Link2")

IB n+0 = Digital In A+B
IW n+1= ADC0 (12 Bit) AI0 (A) 10V=4095
IB n+3 = ADC1 (8 Bit) AI1 (A) 10V=255
IW n+4= ADC2 (12 Bit) AI0 (B) 10V=4095
IB n+6 = ADC3 (8 Bit) AI1 (B) 10V=255
IB n+7 = LoopCounter 0-255

QB n+0= Digital Out A+B
QW n+1= DAC0 (12 Bit) AQ0 (A)
QW n+3= DAC1 (12 Bit) AQ0 (B)
V1.0: baudrate=COM3 , minCycle=8

-KF6
/5.7

IO-Link Port 1: RFID-Reader
%ID 10
-XTF1:4

IO-Link Port 2: DA-Link-Interface
%ID 42
-X22-S3

IO-Link Port 3: reserve
%ID 50
-XG6:3

IO-Link Port 4: reserve
%ID 58
-XG6:4

24V Channel 1 / 24V Kanal 1 / 0V Channel 1 / 0V Kanal 1 — US1 9, M 13, C1 1
24V Channel 2 / 24V Kanal 2 / 0V Channel 2 / 0V Kanal 2 — US2 10, M 14, C2 2
24V Channel 3 / 24V Kanal 3 / 0V Channel 3 / 0V Kanal 3 — US3 11, M 15, C3 3
24V Channel 4 / 24V Kanal 4 / 0V Channel 4 / 0V Kanal 4 — US4 12, M 16, C4 4

-XG6
US1 9, M 13, C1 1
US2 10, M 14, C2 2
US3 11, M 15, C3 3
US4 12, M 16, C4 4

Baseunit
= Basisterminal

-KF21
/10.0
/11.0
/12.0
DA-Interface
DA-Interface

24V for Inputs / 24V für Eingänge — 24VB 1
0V for Inputs / 0V für Eingänge — GNDB 3
24V for Outputs / 24V für Ausgänge — 24VA 2
0V for Outputs / 0V für Ausgänge — GNDA 5
FREMDSPRACHE ### IO-Link Device-Port — IO-Link 4

IPort 1 3 2 5 4
I-Port / IO-Link
IPort = I-Port / IO-Link

-X11 RFID, IOL, PE, 0V, VB

-WG1 BN, BU, WH, GY, BK

-X6 VB, 0V, VA, 0V, IOL

-S3 1 2
CTEU/IOL

8.9 / 24VB
8.9 / 0V
8.9 / PE
8.9 / 24VA

-X6 VB, 0V, RFID

24VB / 10.1
0V / 10.1
PE / 10.1
24VA / 10.1

-X6 VB, VB, VA, 0V, 0V

E1.5
7.2

WTF1 BN, BU, BK

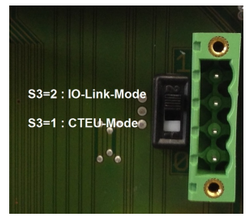
XTF1 1, 3, 4
24V, 0V, Data
1, 3, 4

WTF1
1 = BC32

Writing- / Reading-Unit
Schreib- / Lesekopf
RF210R IO-Link V1.1
32 Byte I/O

IB n+0: State	State Bit 0: not used
IB n+1: ErrorCode	State Bit 1: Write 28 Byte
IB n+2: Adress-H	State Bit 2: Read 28 Byte
IB n+3: Adress-L	State Bit 3: not used
IB n+4: Data0	State Bit 4: AntOff
.....	State Bit 5: TagPresent
IB n+31: Data27	State Bit 6: Error
	State Bit 7: Done
QB n+0: Command	Command Bit 0: not used
QB n+1: not used	Command Bit 1: Write 28 Byte
QB n+2: Adress-H	Command Bit 2: Read 28 Byte
QB n+3: Adress-L	Command Bit 3: not used
QB n+4: Data0	Command Bit 4: AntOff
.....	Command Bit 5: not used
QB n+31: Data27	Command Bit 6: not used
	Command Bit 7: not used

-XTF1 = RFID-Connector RFID-Anschluss



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Date	28.11.2019	Festo Didactic SE Rechbergstraße 3 D-73770 Denkendorf	FESTO	PCB - IO-Link & Ethernet Platine - IO-Link & Ethernet	S-Nr.		
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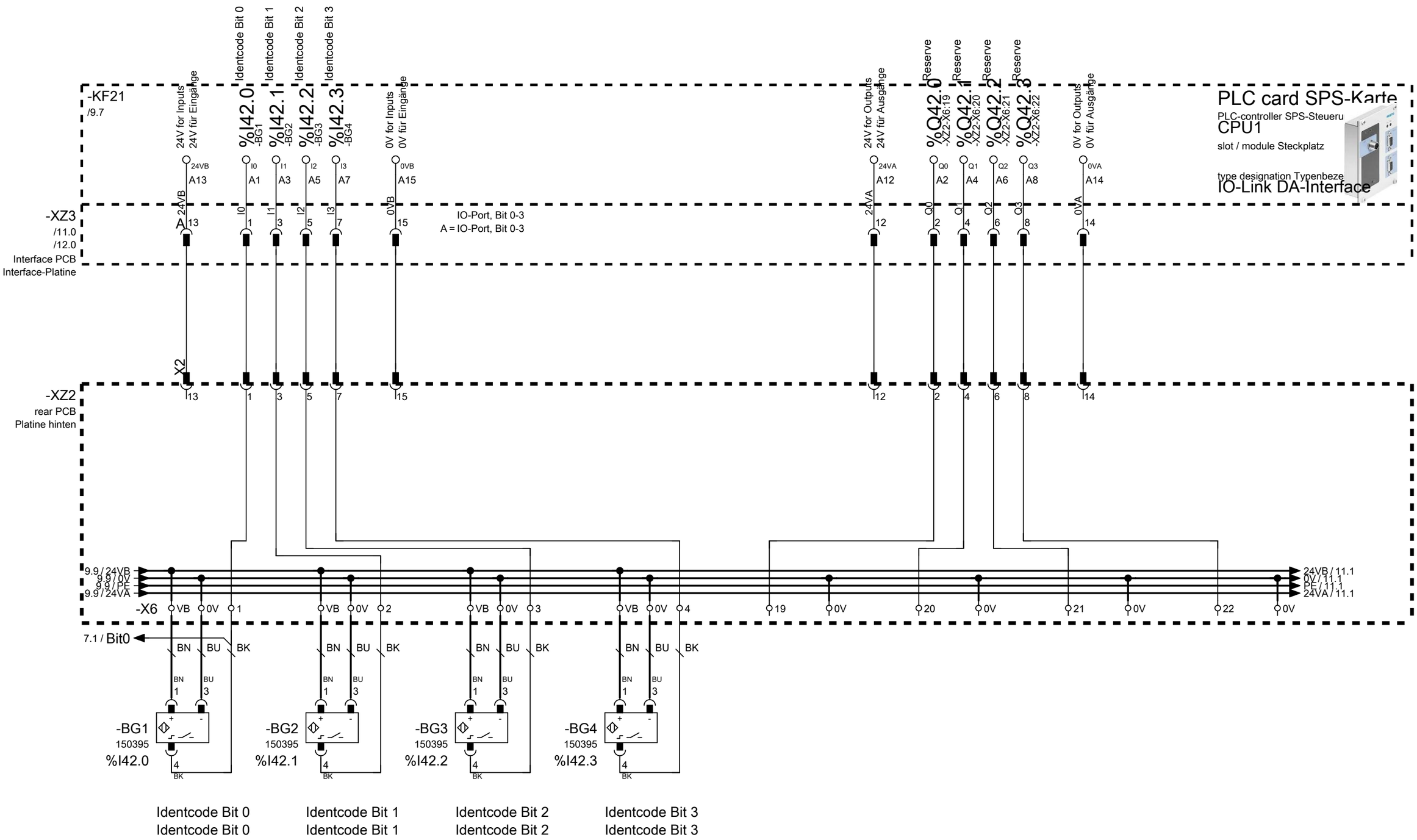

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Date	28.11.2019	Festo Didactic SE Rechbergstraße 3 D-73770 Denkendorf	FESTO	PCB - IO-Link A Platine - IO-Link A	S-Nr.		
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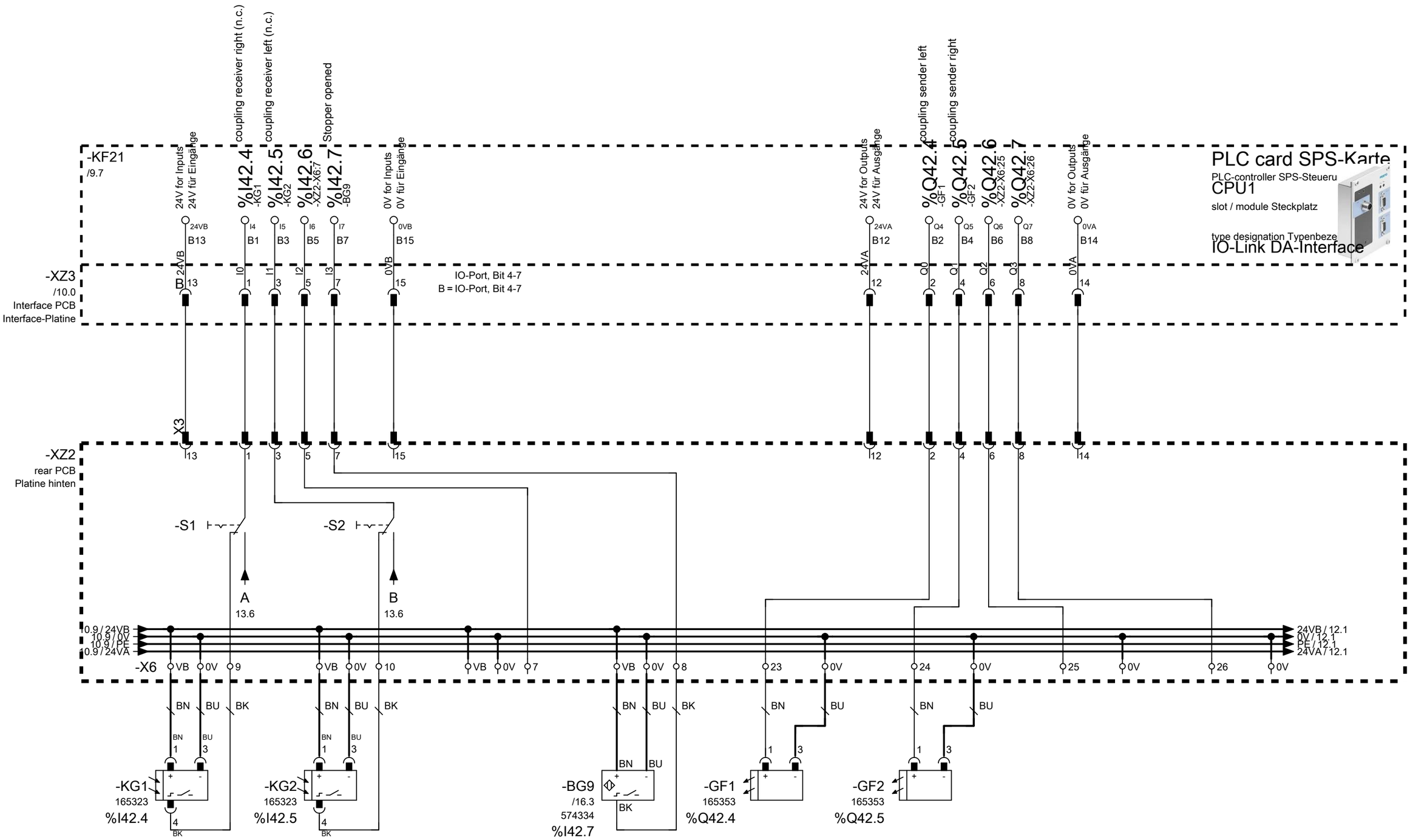

coupling receiver right (n.c.)
Koppelsensor Empfänger rechts (Öffner)

coupling receiver left (n.c.)
Koppelsensor Empfänger links (Öffner)

Stopper opened
Stopper geöffnet

coupling sender left
Koppelsensor Sender links

coupling sender right
Koppelsensor Sender rechts

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Date	28.11.2019	Festo Didactic SE Rechbergstraße 3 D-73770 Denkendorf	FESTO	PCB - IO-Link B Platine - IO-Link B	S-Nr.		
Ed. by.	espe				PSP / DPJ VN	= S5M0T7 CP Lab S7-IM155-6DP, HMI TP700	Page 11
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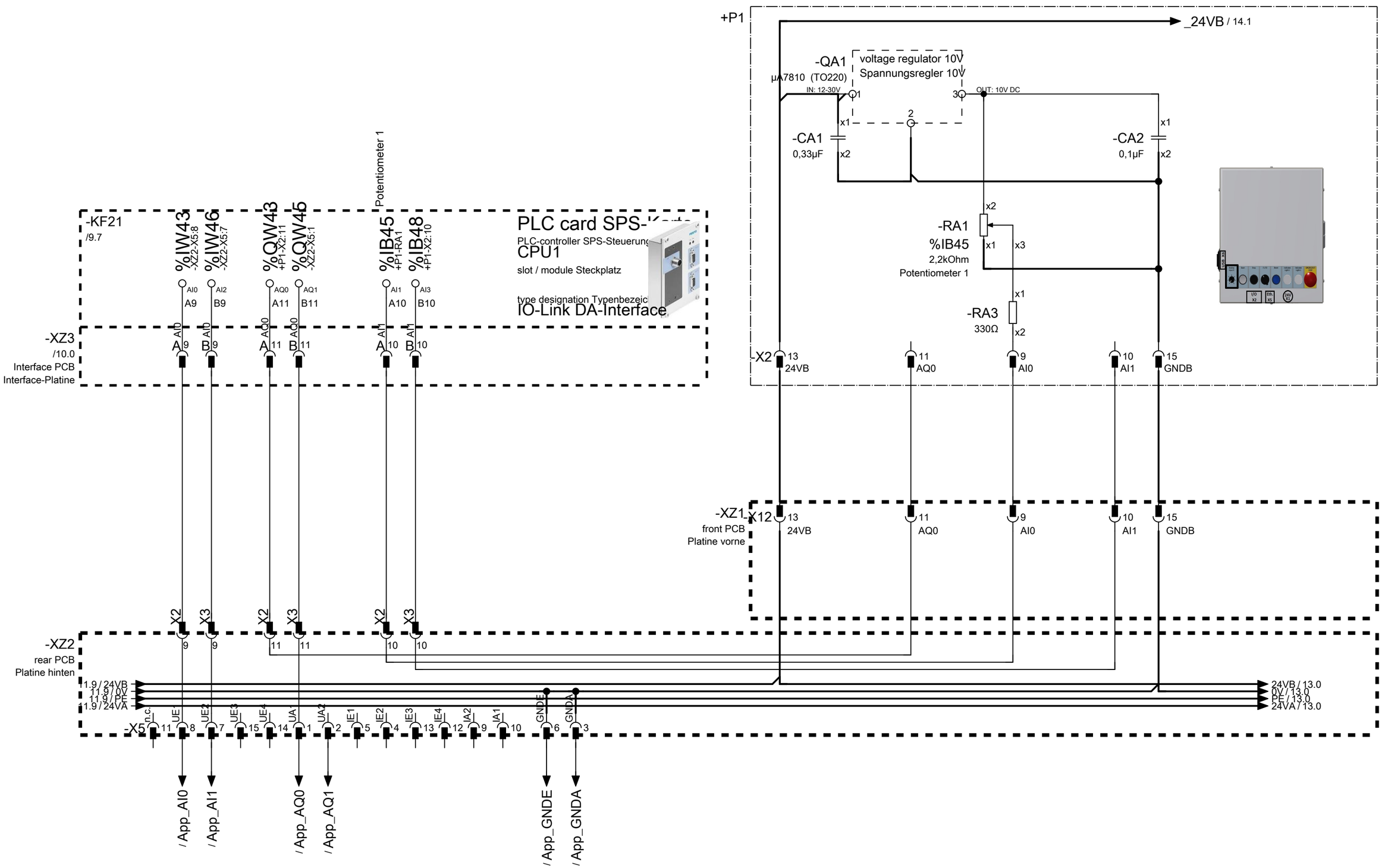

<<1

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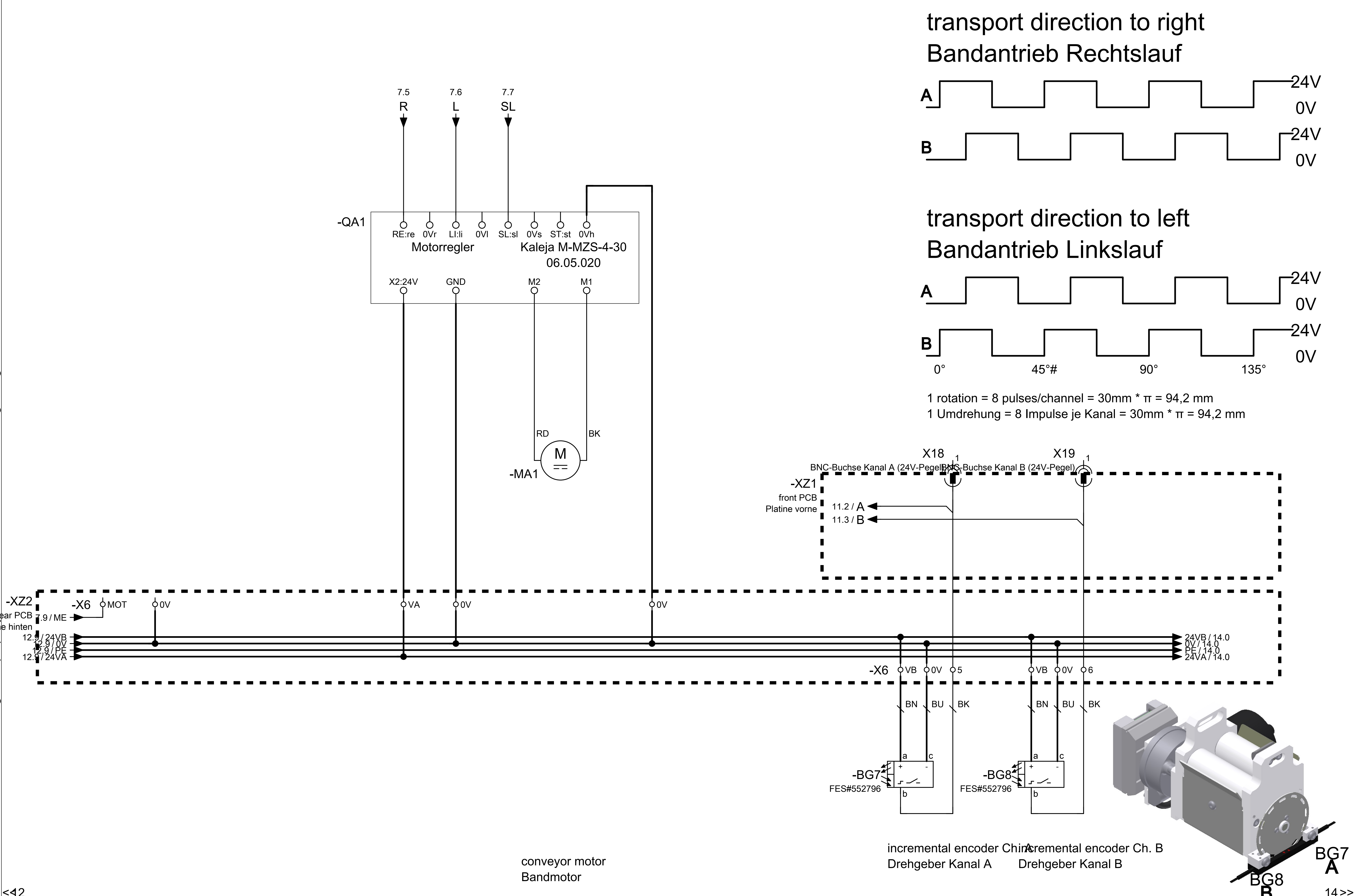
Date	28.11.2019	Festo Didactic SE Rechbergstraße 3 D-73770 Denkendorf	FESTO	PCB - IO-Link analog Platine - IO-Link Analog	S-Nr.		
Ed. by.	espe				PSP / DPJ VN	= S5M0T7 CP Lab S7-IM155-6DP, HMI TP700	Page 12
Creat.	espe					+	of 16
Drw.No.		N: F: EPL0VZFG7M	\\festo.net\DFS01\INT\Data\EPLAN\DATA_xx\DE\Projects\Didactic\SC products\247CP-Lab\V6\CP Lab V6 2019-11-28.elk				



<<12 14>>

Date	28.11.2019	Festo Didactic SE	PCB - motor + encoder
Ed. by.	espe	Rechbergstraße 3	Platine - Motor + Inkrementalgeber
Creat.	espe	D-73770 Denkendorf	
Drw.No.			

FESTO

S-Nr.

PSP / DPJ VN

= S5M0T7 CP Lab S7-IM155-6DP, HMI TP700

N: F: EPL0VZFG7M \\festo.net\DFS01\INT\Data\EPLAN\DATA_xx\DE\Projects\Didactic\SC products\24 CP-Lab\V6\CP Lab V6 2019-11-28.elk

0 1 2 3 4 5 6 7 8 9

+P1

-PH1
SIE.6AV2124-0GC01-0AX0

Siemens TP700 Comfort

12.8 / _24VB

-SF1 start Start %I 1.0
-SF2 Stop Stopp %I 1.1
-SF3 0=Auto/F1 1=Man./F2 0=Auto/F1 1=Man./F2 %I 1.2
-SF4 reset Richten %I 1.3
-PF1 start Start %Q 1.0
-PF2 reset Richten %Q 1.1
-PF3 Special function Q1 Sonderfunktion Q1 %Q 1.2
-PF4 Special function Q2 Sonderfunktion Q2 %Q 1.3

Sub-D-Buchse
15pol. HD

-X2: 12 24VA, 11 AO0, 14 GNDA, 1 I0, 2 Q0, 3 I1, 5 I2, 7 I3, 4 Q1, 6 Q2, 8 Q3

-WG42

-XZ1 front PCB Platine vorne
X12: 12 24VA, 11 AO0, 14 GNDA, 1 I0, 2 Q0, 3 I1, 5 I2, 7 I3, 4 Q1, 6 Q2, 8 Q3
7.4 / -PI0
7.4 / -PI1
7.4 / -PI2
7.4 / -PI3
7.9 / -PQ0
7.9 / -PQ1
7.9 / -PQ2
7.9 / -PQ3

-XZ2 rear PCB Platine hinten
13.9 / 24VB
13.9 / 0V
13.9 / PE
13.9 / 24VA

X80:1 L+, 2 M, PE
-X90i Audio IN, -X90o Audio OUT, -X60 USB-Mini-B, -X61 USB-A, -X62 USB-A, -X2 DP, X1/P1 PN RJ45, X1/P2 PN RJ45

-XD1: 1 24VB, 2 0V, 3 PE

-SF5 emergency-stop Panel Not-Halt Panel
JP1

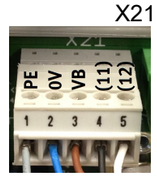
-X1: 2 24VA, 1 24VB, 3 GNDB, 5 PE, 4 n.c.

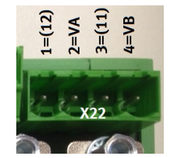
-WG41 WH BN BU GY BK

USB
-X6

X6 = USB socked
X5 = Ethernet connector in control panel
-XD1 = Klemmen auf HMI-Platine

X21: 5 (12), 3 24VB, 2 0V, 1 PE, 4 (11)
X22: 1 (12), 2 VA, 3 (11), 4 VB



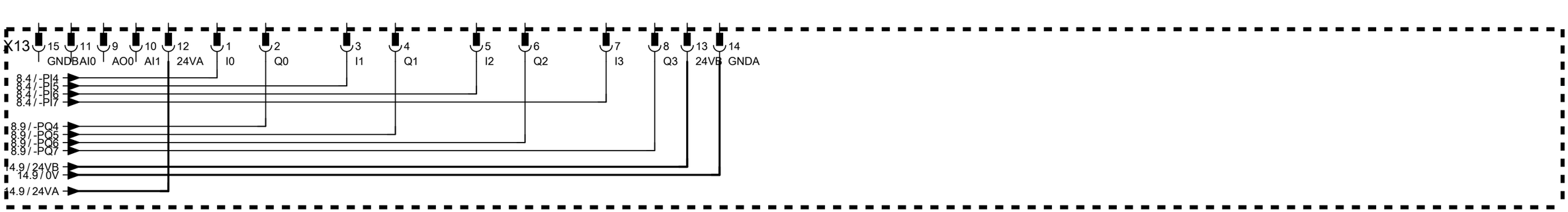


24VB / 15.0
0V / 15.0
24VA / 15.0

PN

<<13 15>>

Date	28.11.2019	Festo Didactic SE	FESTO	controlpanel basic functions & touchpanel	S-Nr.		
Ed. by.	espe	Rechbergstraße 3		Bedienfeld Grundfunktionen & Touchpanel	PSP / DPJ VN	= S5M0T7 CP Lab S7-IM155-6DP, HMI TP700	Page 14
Creat.	espe	D-73770 Denkendorf				+	of 16
Drw.No.		N: F: EPL0VZFG7M \\festo.net\DFS01\INT\Data\EPLAN\DATA_xx\DE\Projects\Didactic\SC products\24V\CP-Lab\V6\CP Lab V6 2019-11-28.elk					



Date	28.11.2019	Festo Didactic SE Rechbergstraße 3 D-73770 Denkendorf	FESTO	controlpanel options Bedienfeld Optionen	S-Nr.
Ed. by.	espe				PSP / DPJ VN
Creat.	espe				= S5M0T7 CP Lab S7-IM155-6DP, HMI TP700
Drw.No.		N: F: EPL0VZFG7M \\festo.net\DFS01\INT\Data\EPLAN\DATA_xx\DE\Projects\Didactic\SC products\2473-P-Lab\V6\CP Lab V6 2019-11-28.elk			+