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Schaltungsunterlagen Circuit diagrams

Bezeichnung: CP Factory

designation:

Kunde:

Customer:

Anlagenkennzeichen CM1 Hochregallager Box -1512SP D:SC-F4-BOX-ASRS20

Plant identifier high bay rack box -1512SP

Bemerkung:

remark:

letzte Änderung: 21.03.2022

last Modification:

Druckdatum: 21.03.2022

Print date:

Pfad: \\festo.net\dfs01\INT\Data\EPLAN\DATA_xx\DE\Projects\Didactic\Products\21 CP-F Box\

Path: aktuell Kistenlager\KistenlagerV7 2022-03-16.elk

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|--------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------|-----------|------|---------|
| Datum | 16.03.2022 | Festo Didactic SE | | Titel- / Deckblatt Title page/cover sheet | S-Nr. | | |
| Bearb. | Schuhmacher | Rechbergstraße 3 | | | PSP / DPJ | VN | = CM1 |
| Erst. | Schuhmacher | D-73770 Denkendorf | | | + INFO | Info | von 124 |
| Ze.Nr. | | N:FDMR07DE FFDM006DE EPL0VZFG7M \\festo.net\dfs01\INT\Data\EPLAN\DATA_xx\DE\Projects\Didactic\Products\21 CP-F Box\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk | | | | | |

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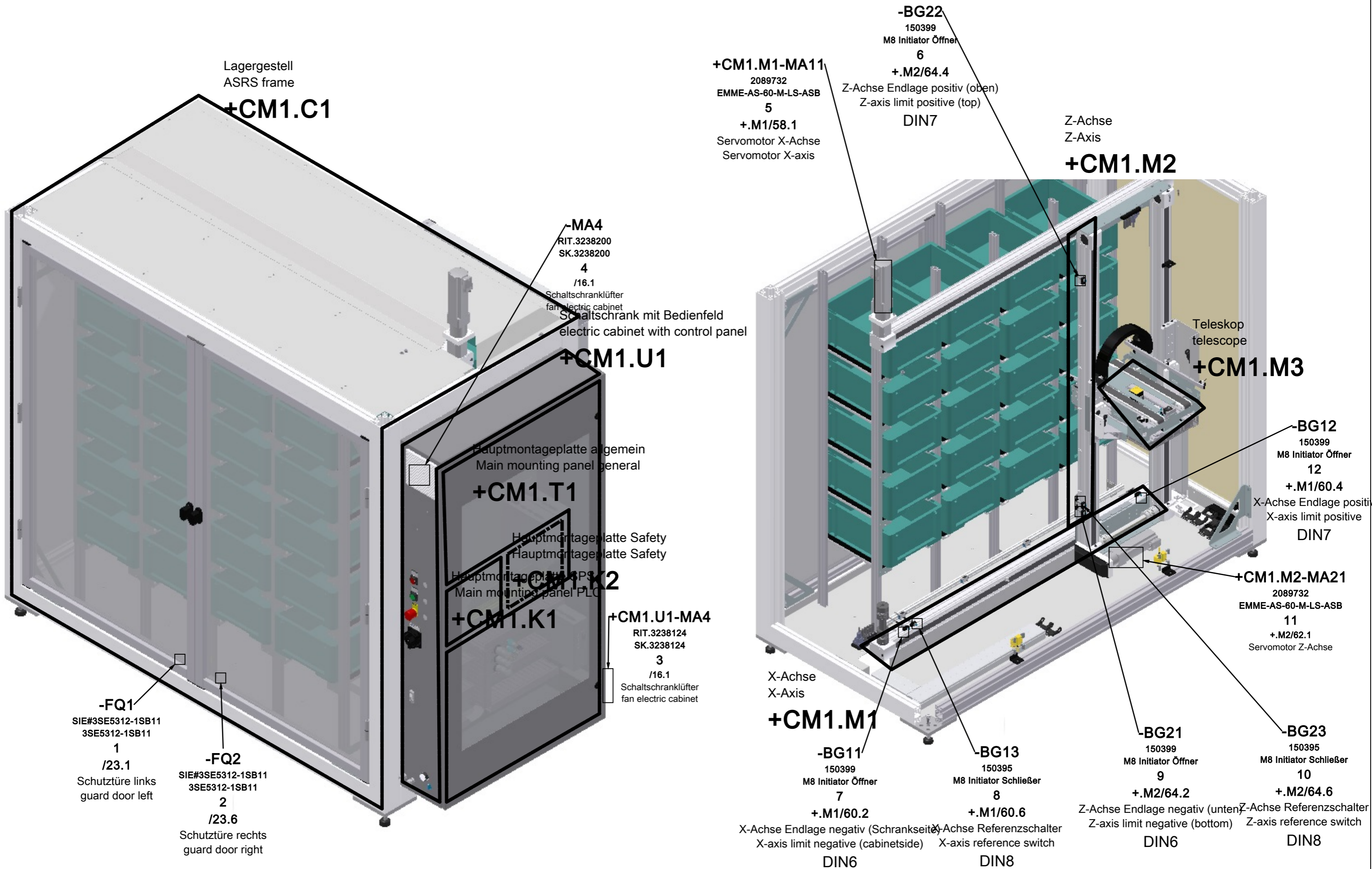
Strukturkennzeichenübersicht

Structure identifier overview

| Beschriftung labeling | Strukturkennzeichen structure identifier | Beschreibung description | Anzahl Quantity |
|--------------------------|---------------------------------------------|------------------------------------------------------------------|--------------------|
| Anlage | =CM1 | Hochregallager Box -1512SP high bay rack box -1512SP | 3025 |
| Anlage | =F4 | Factory4 Anlage global Factory4 plant global | 3 |
| Anlage | =CM1.CM1 | | 0 |
| Einbauort | +INFO | Info Info | 6 |
| Einbauort | +CM1 | Hochregallager für Kisten high bay rack for boxes | 4 |
| Einbauort | +CM1.T1 | Hauptmontageplatte allgemein Main mounting panel general | 1074 |
| Einbauort | +CM1.K1 | Hauptmontageplatte SPS Main mounting panel PLC | 203 |
| Einbauort | +CM1.K2 | Hauptmontageplatte Safety Hauptmontageplatte Safety | 313 |
| Einbauort | +CM1.U1 | Schaltschrank mit Bedienfeld electric cabinet with control panel | 24 |
| Einbauort | +CM1.C1 | Lagergestell ASRS frame | 64 |
| Einbauort | +CM1.M1 | X-Achse X-Axis | 163 |
| Einbauort | +CM1.M2 | Z-Achse Z-Axis | 128 |
| Einbauort | +CM1.M3 | Teleskop telescope | 235 |
| Einbauort | +CM1.M4 | Docking | 261 |
| Einbauort | +LST | Auswertungen Reports | 45 |
| Einbauort | +CM1.M3.M4 | | 0 |
| Einbauort | +CM1.M3.CM1 | | * |
| Einbauort | +CM1.M3.CM1.M4 | | 0 |
| Einbauort | +CM1.M4.M4 | | 2 |
| Dokumentenart | &STR | Strukturkennzeichen Structure identifier | 1 |
| Dokumentenart | &KLP | Klemmenplan Terminal diagram | 13 |
| Dokumentenart | &STP | Steckerplan Plug diagram | 5 |
| Dokumentenart | &STK | Stückliste bill of materials | 6 |
| Dokumentenart | &PLC | SPS-Belegung PLC-Allocation | 12 |
| Dokumentenart | &SSTK | Artikelsummenstückliste Summarized parts list | 6 |
| Dokumentenart | &LISTE | | 3 |
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|--------------------------|--|--------------------------|--|
| Date: 21.03.2022 | | Festo Didactic SE | |
| Prepared by: Schuhmacher | | Reichbergstraße 3 | |
| First: Schuhmacher | | D-73770 Denkendorf | |
| Drawing No.: | | N:FDMR07DE F: EPL0VZFG7M | |

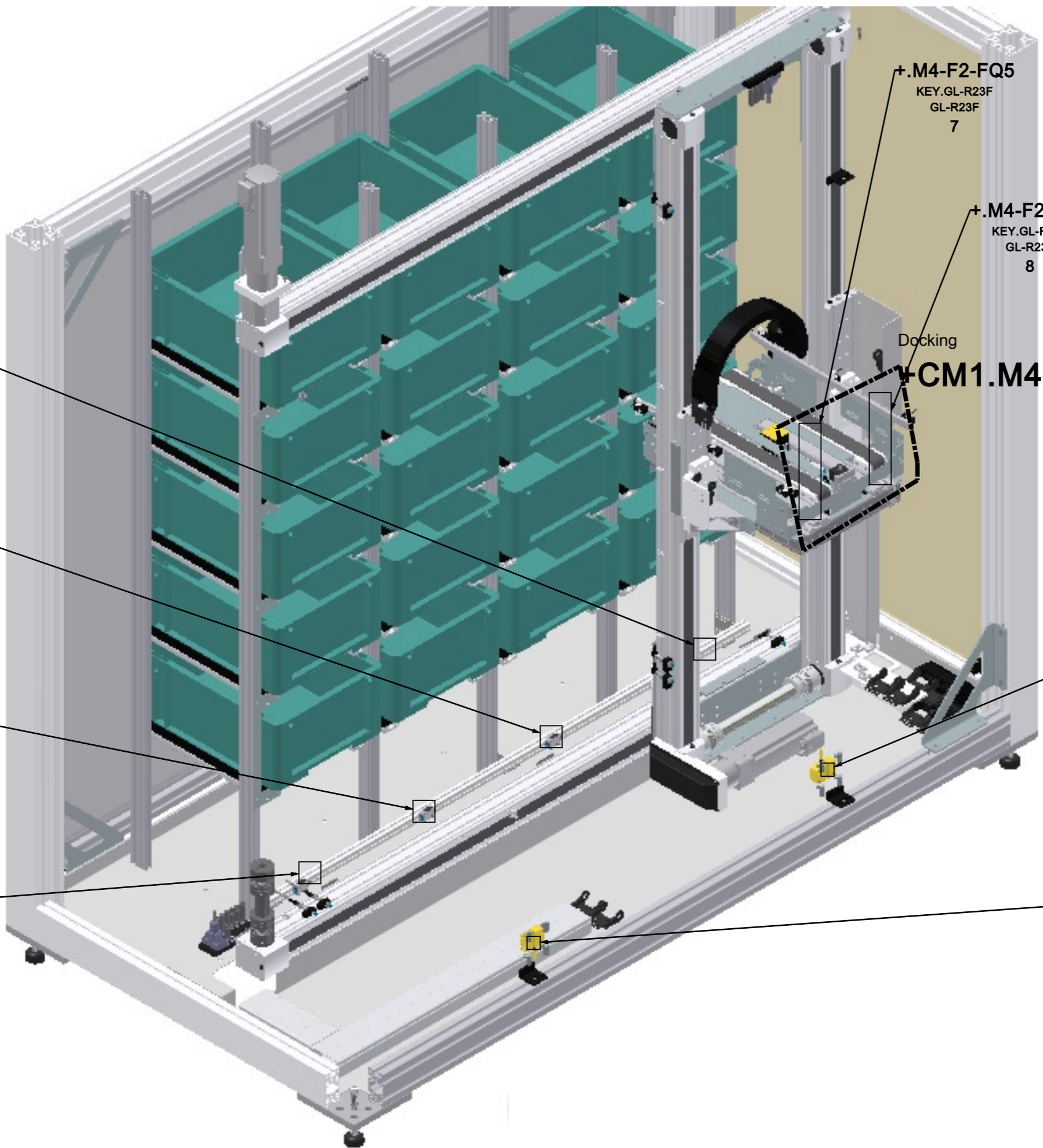


Aufbau Lager Assembly ASRS

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|-----------|----|----------|------------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.T1 | Hauptmontageplatte allgemein |

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R10



+CM1.C1-BG54
 FES.537749
 SOEG-RSP-Q20-PP-S-2L-TI
 1
 +.M1/60.9
 Lichtschanke 4 Lagerfächer frei
 light barrier 4 shelves free
 %I30.3

+CM1.C1-BG53
 FES.537749
 SOEG-RSP-Q20-PP-S-2L-TI
 2
 +.M1/60.7
 Lichtschanke 3 Lagerfächer frei
 light barrier 3 shelves free
 %I30.2

+CM1.C1-BG52
 FES.537749
 SOEG-RSP-Q20-PP-S-2L-TI
 3
 +.M1/60.5
 Lichtschanke 2 Lagerfächer frei
 light barrier 2 shelves free
 %I30.1

+CM1.C1-BG51
 FES.537749
 SOEG-RSP-Q20-PP-S-2L-TI
 4
 +.M1/60.3
 Lichtschanke 1 Lagerfächer frei
 light barrier 1 shelves free
 %I30.0

+M4-F2-FQ5
 KEY.GL-R23F
 GL-R23F
 7

+M4-F2-FQ6
 KEY.GL-R23F
 GL-R23F
 8

Docking
+CM1.M4

+CM1.C1-FQ4
 PILZ#506335
 ma1.4p
 6
 /24.6
 Schutztüre 4
 guard door 4

+CM1.C1-FQ3
 PILZ#506335
 ma1.4p
 5
 /24.1
 Schutztüre 3
 guard door 3

<7

9>>

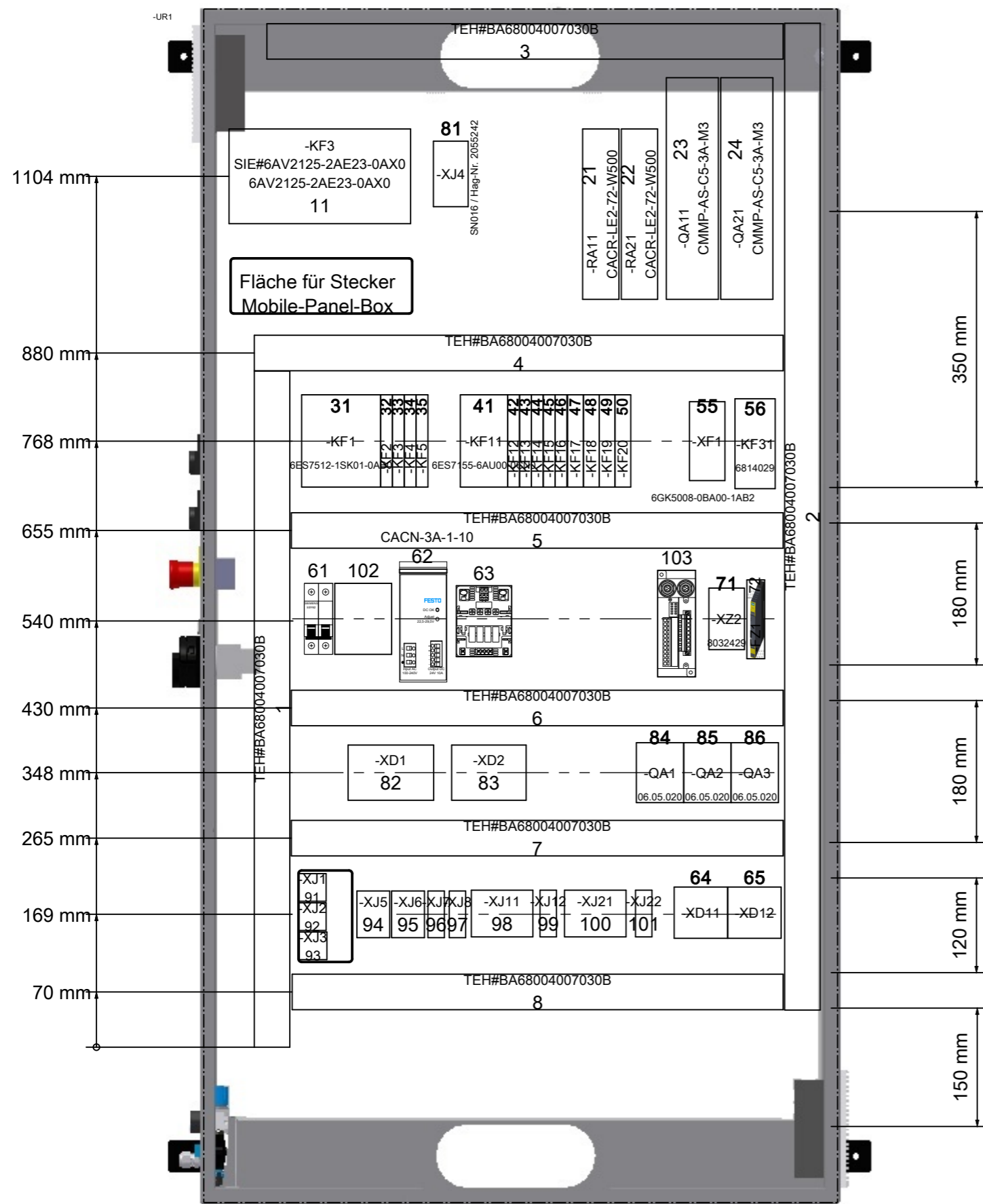
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|--------|-------------|--------------------|
| Datum | 21.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

FESTO Aufbau Lager Assembly ASRS

\\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP2\Bsp\aktuell\Kistenlager\KistenlagerV7 2022-03-16.elk

| | | | |
|-----------|----|----------|------------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.T1 | Hauptmontageplatte allgemein |
| | | | Seite 8 von 124 |

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Schaltschranklegende =CM1+CM1.T1-UR1

| Pos. | BMK | B x H | Bezeichnung | Graviertext |
|------|------|-----------|------------------------|-------------|
| 11 | KF3 | 230,00 | ANSCHLUSS-BOX | |
| 21 | RA11 | 46,00 mm | Bremswiderstand 50 | |
| 22 | RA21 | 46,00 mm | Bremswiderstand 50 | |
| 23 | QA11 | 0,00 mm x | Motorcontroller CM | |
| 24 | QA21 | 0,00 mm x | Motorcontroller CM | |
| 31 | KF1 | 100,00 | ET200SP CPU 1512 | |
| 32 | KF2 | 15,00 mm | ET200SP BaseUnit | |
| 33 | KF3 | 15,00 mm | ET200SP BaseUnit | |
| 34 | KF4 | 15,00 mm | ET200SP BaseUnit | |
| 35 | KF5 | 15,00 mm | ET200SP BaseUnit | |
| 41 | KF11 | 60,00 mm | ET200SP PN-Devic | |
| 42 | KF12 | 15,00 mm | ET200SP BaseUnit | |
| 43 | KF13 | 15,00 mm | ET200SP BaseUnit | |
| 44 | KF14 | 15,00 mm | ET200SP BaseUnit | |
| 45 | KF15 | 15,00 mm | ET200SP BaseUnit | |
| 46 | KF16 | 15,00 mm | ET200SP BaseUnit | |
| 47 | KF17 | 20,00 mm | ET200SP BaseUnit | |
| 48 | KF18 | 20,00 mm | ET200SP BaseUnit | |
| 49 | KF19 | 20,00 mm | ET200SP BaseUnit | |
| 50 | KF20 | 20,00 mm | ET200SP BaseUnit | |
| 55 | XF1 | 45,00 mm | Scalance XB008 | |
| 56 | KF31 | 51,00 mm | TBEN-S2-2RFID-4D | |
| 61 | FC1 | 36,00 mm | Leitungsschutzschal | |
| 62 | TB1 | 60,00 mm | Netzteil | |
| 63 | FC2 | 70,00 mm | MICO 4.6 / 24VDC/4 | |
| 64 | XD11 | 67,50 mm | | |
| 65 | XD12 | 67,50 mm | | |
| 71 | XZ2 | 45,00 mm | Platine Not-Aus-Ver | |
| 72 | FZ1 | 22,50 mm | Sirius Sicherheitssc | |
| 81 | XJ4 | 44,00 mm | Schuko-Steckdose | |
| 82 | XD1 | x | | |
| 83 | XD2 | x | | |
| 84 | QA1 | 60,00 mm | Motorsteuerung M- | |
| 85 | QA2 | 60,00 mm | Motorsteuerung M- | |
| 86 | QA3 | 60,00 mm | Motorsteuerung M- | |
| 91 | XJ1 | 35,00 mm | Stifteinsatz grau, Ein | |
| 92 | XJ2 | 35,00 mm | Buchseneinsatz gra | |
| 93 | XJ3 | 35,00 mm | Buchseneinsatz gra | |
| 94 | XJ5 | x | | |
| 95 | XJ6 | x | | |
| 96 | XJ7 | x | | |
| 97 | XJ8 | x | | |

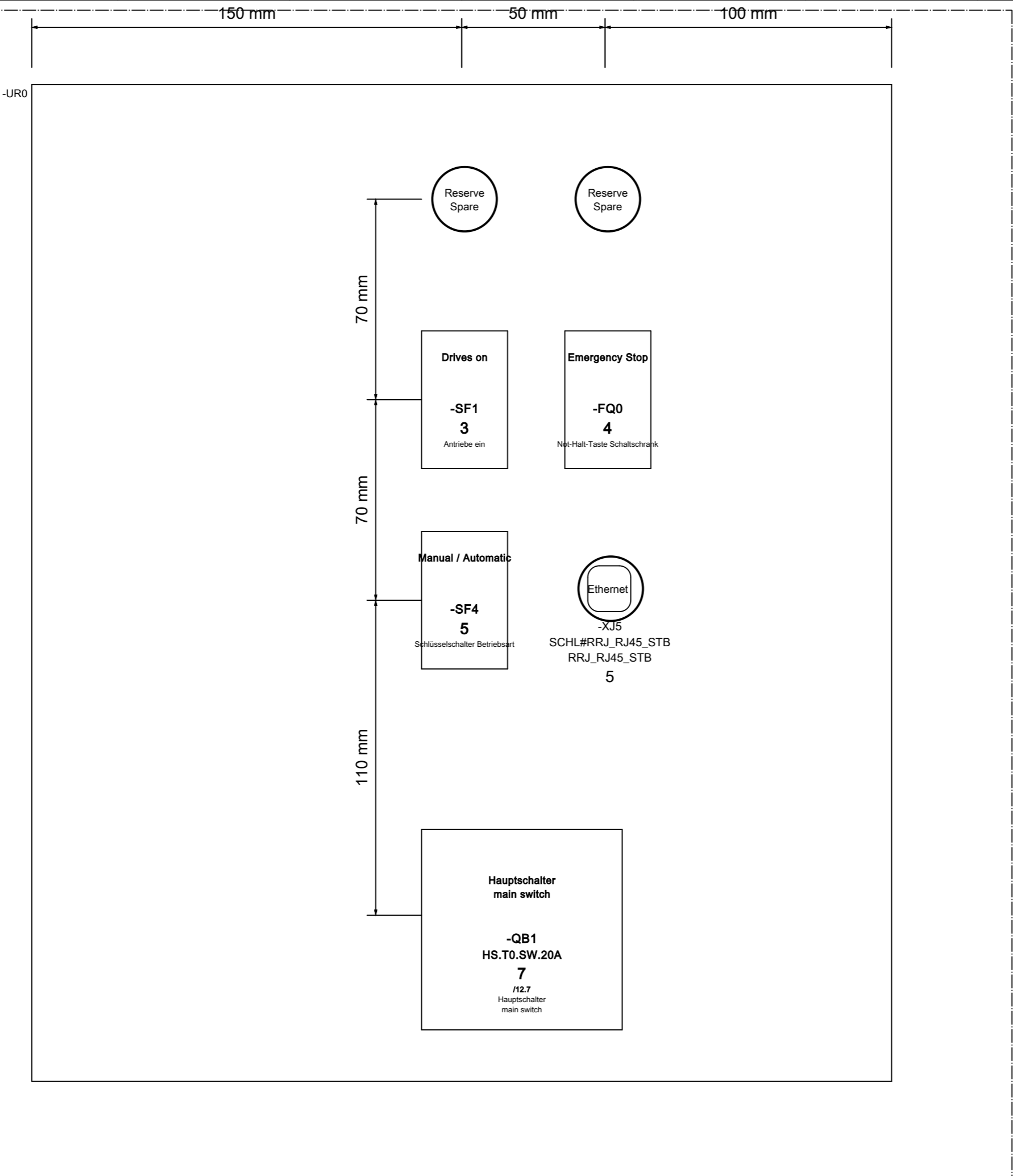
| | | | | |
|-----|--------|----------|-----------------------|--|
| 98 | XJ11 | x | | |
| 99 | XJ12 | x | | |
| 100 | XJ21 | x | | |
| 101 | XJ22 | x | | |
| 102 | FB1 | 72,00 mm | FI-Schutzschalter 30 | |
| 103 | F2-KF5 | 48,00 mm | Sicherheitsrelais für | |

| | | |
|--------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Datum | 21.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Reichbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE F: | EPL0VZFG7M \\festo.net\dfs01\NT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP2\Festaktuell Kistenlager\KistenlagerV7 2022-03-16.elk |

Aufbau Schaltschrank Assembly Cabinet

| | | |
|-----------|------------------------------|---------|
| S-Nr. | | |
| PSP / DPJ | VN | |
| = CM1 | Hochregallager Box -1512SP | Seite 9 |
| + CM1.T1 | Hauptmontageplatte allgemein | von 124 |

+CM1.U1
Schaltschrank mit Bedienfeld
electric cabinet with control panel



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| | | |
|--------|-------------|--------------------|
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| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Bedienleiste Aufbau assembly control panel

| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|------------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 10 |
| + CM1.T1 | Hauptmontageplatte allgemein | von 124 |

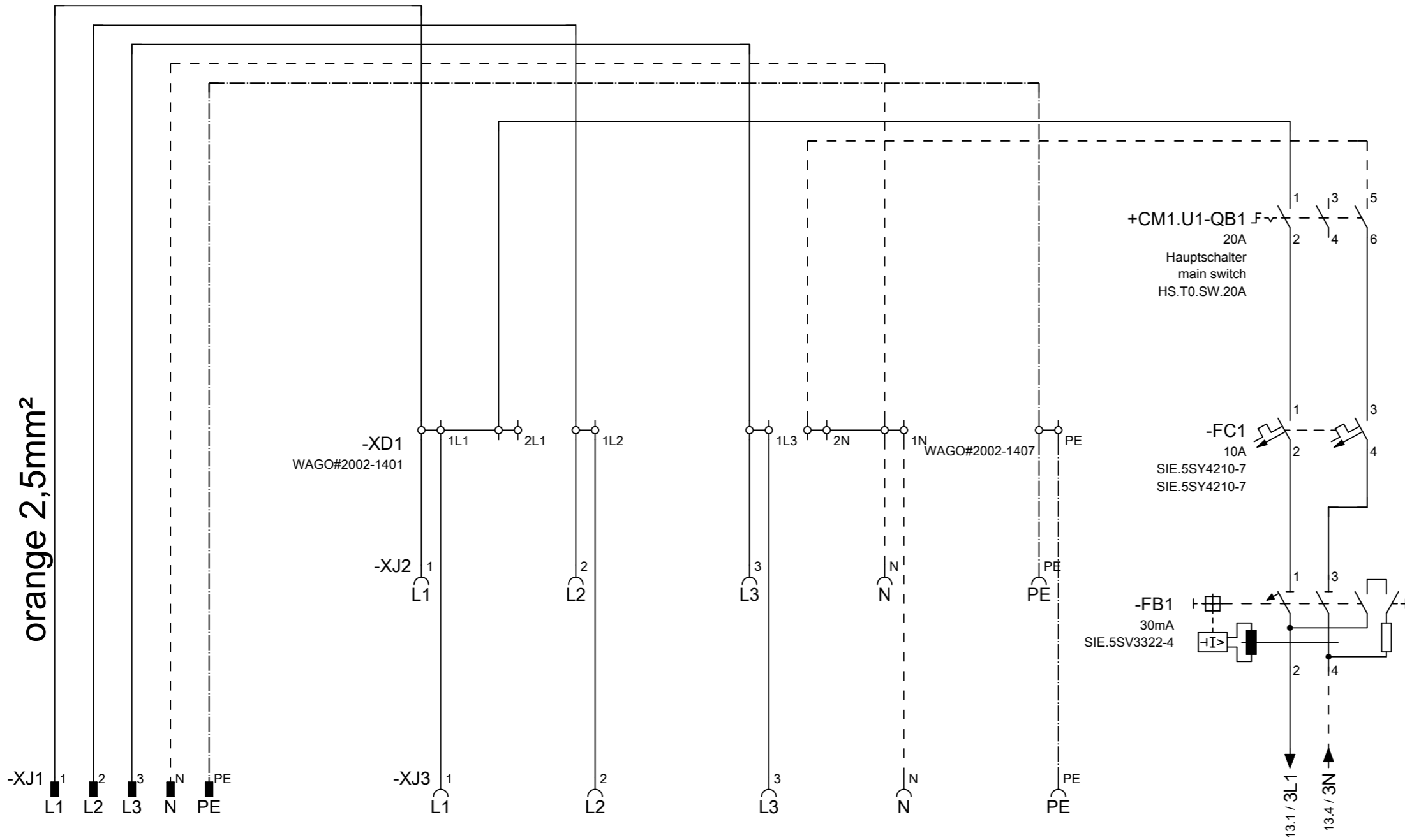
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| BMK DT | Funktionstext function text | Artikelbeschreibung 1 article description 1 | Querverweis cross-reference | keine Ausgabe No output |
|-------------|--------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|----------------------------|
| -XJ1 | Wieland-Stecker Einspeisung Wieland plug power supply Wieland-Buchse Ausgang 1 | Einbaustecker 5polig grau 20A | /12.1 | Ja |
| -XJ2 | Wieland socket output 1 Wieland-Buchse Ausgang 2 | Einbaubuchse 5polig grau 20A | /12.2 | Ja |
| -XJ3 | Wieland socket output 2 | Einbaubuchse 5polig grau 20A | /12.3 | Ja |
| -XD1 | Verteilung 400 VAC Distribution 400 VAC Verteilung 24 V DC | Brücke 2-fach für 2,5 mm ² | /12.2 | Nein |
| -XD2 | Distribution 24 V DC Klemmen Bedienfeld & Safety | Brücke 4-fach für 2,5 mm ² | /15.1 | Nein |
| -XG1 | Terminals Control Panel & Safety Klemmen Motoren im Teleskop | Brücke 2-fach für 2,5 mm ² | | Nein |
| +CM1.M3-XD3 | Clamp motors in telescope | | +M3/71.3 | Nein |
| -XJ5 | Steckklemmen für Türschalter 1 Plug-in terminals for door switch 1 | X-Com-S steckbare Federleiste | /23.1 | Nein |
| -XJ6 | Steckklemmen für Türschalter 2 Plug-in terminals for door switch 2 | X-Com-S steckbare Federleiste | /23.6 | Nein |
| -XJ7 | Steckklemmen für Türschalter 3 Plug-in terminals for door switch 3 | X-Com-S steckbare Federleiste | /24.1 | Nein |
| -XJ8 | Steckklemmen für Türschalter 4 Plug-in terminals for door switch 4 | X-Com-S steckbare Federleiste | /24.6 | Nein |
| -XJ11 | Steckklemmen X-Achse Plug-in terminals X-axis | X-Com-S steckbare Federleiste | +M1/59.1 | Nein |
| -XJ21 | Steckklemmen Z-Achse Plug-in terminals Z-axis | X-Com-S steckbare Federleiste | +M2/63.1 | Nein |
| -XJ12 | Steckklemmen Freigabesignale X-Achse Plug-in terminals Enable signals X-axis | X-Com-S steckbare Federleiste | +M1/59.4 | Nein |
| -XJ22 | Steckklemmen Freigabesignale Z-Achse Plug-in terminals Release signals Z-axis | X-Com-S steckbare Federleiste | +M2/63.4 | Nein |

<<40

12>>

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Einspeisung
Power supply

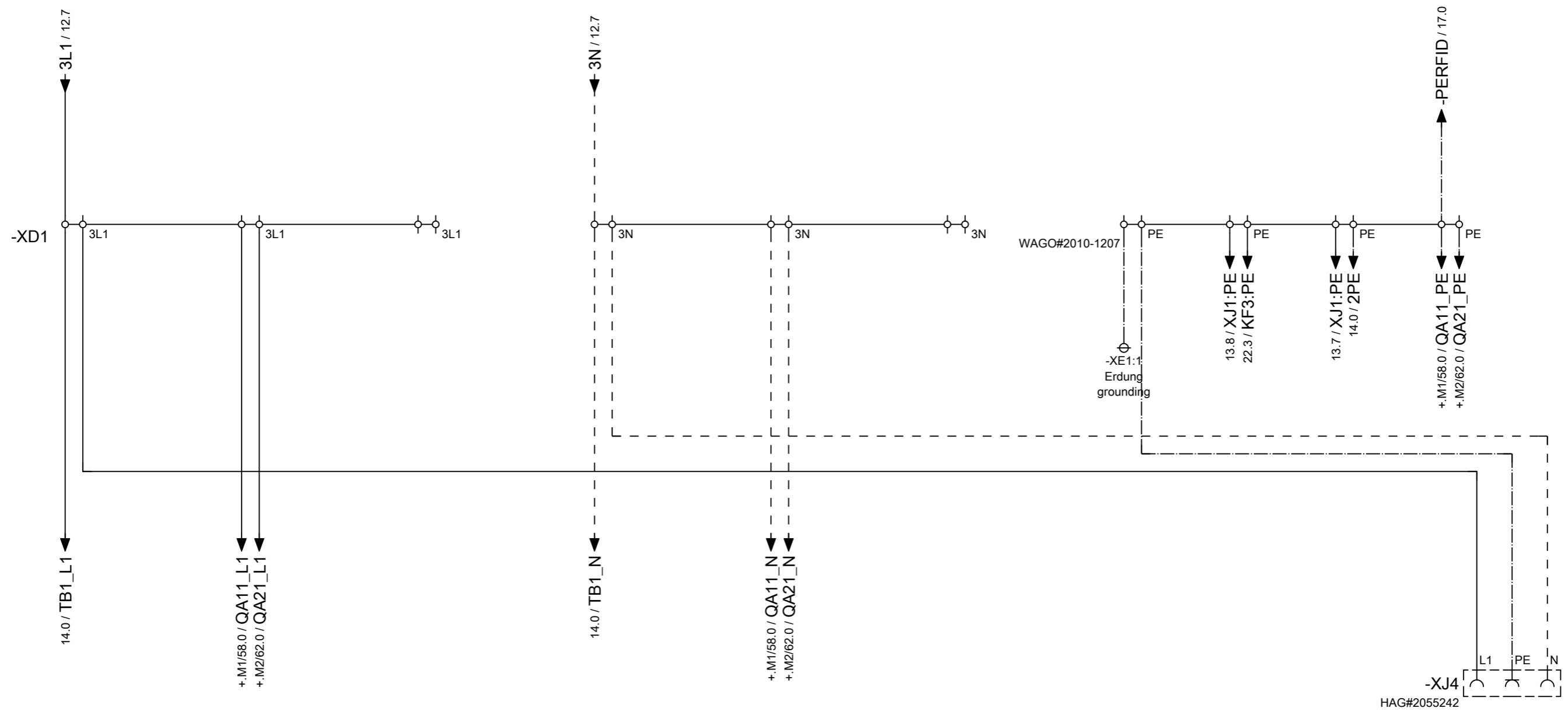
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| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Reichbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE F: | EPL0VZFG7M \\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\IDidactic\Products\21 CP2\FB\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk |



Einspeisung Power supply

| | | | |
|-----------|----|----------|------------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.T1 | Hauptmontageplatte allgemein |
| | | | Seite 12 von 124 |

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Schaltschranksteckdose
electric cabinet receptacle

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Verteilung 230V AC Distribution 230V AC

| | | | |
|-----------|----|----------|------------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.T1 | Hauptmontageplatte allgemein |
| | | | Seite 13 von 124 |

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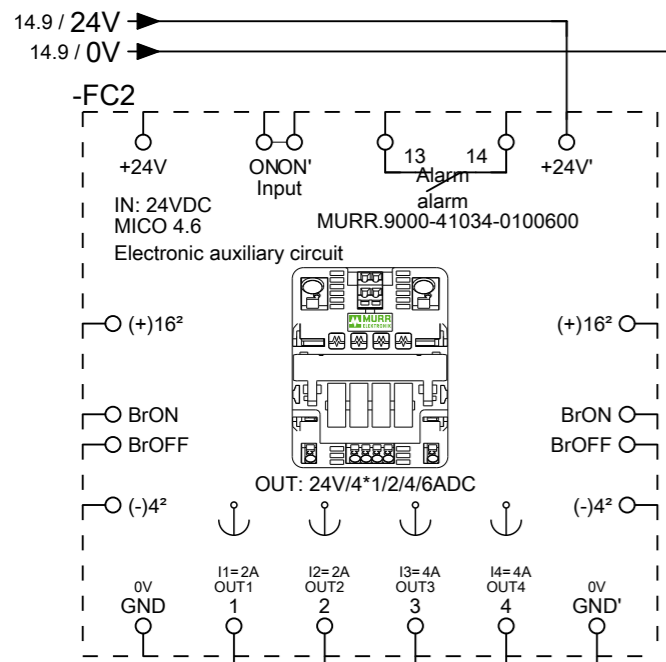
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| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE F: | EPL0VZFG7M \\Festo.net\dfs01\INT\Data\EPLAN\DATA_xx\DE\Projects\Didactic\Products\21 CP2191\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk |



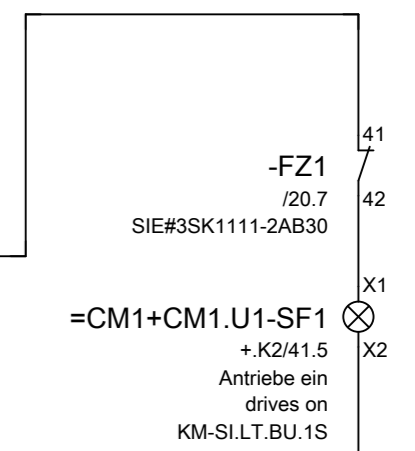
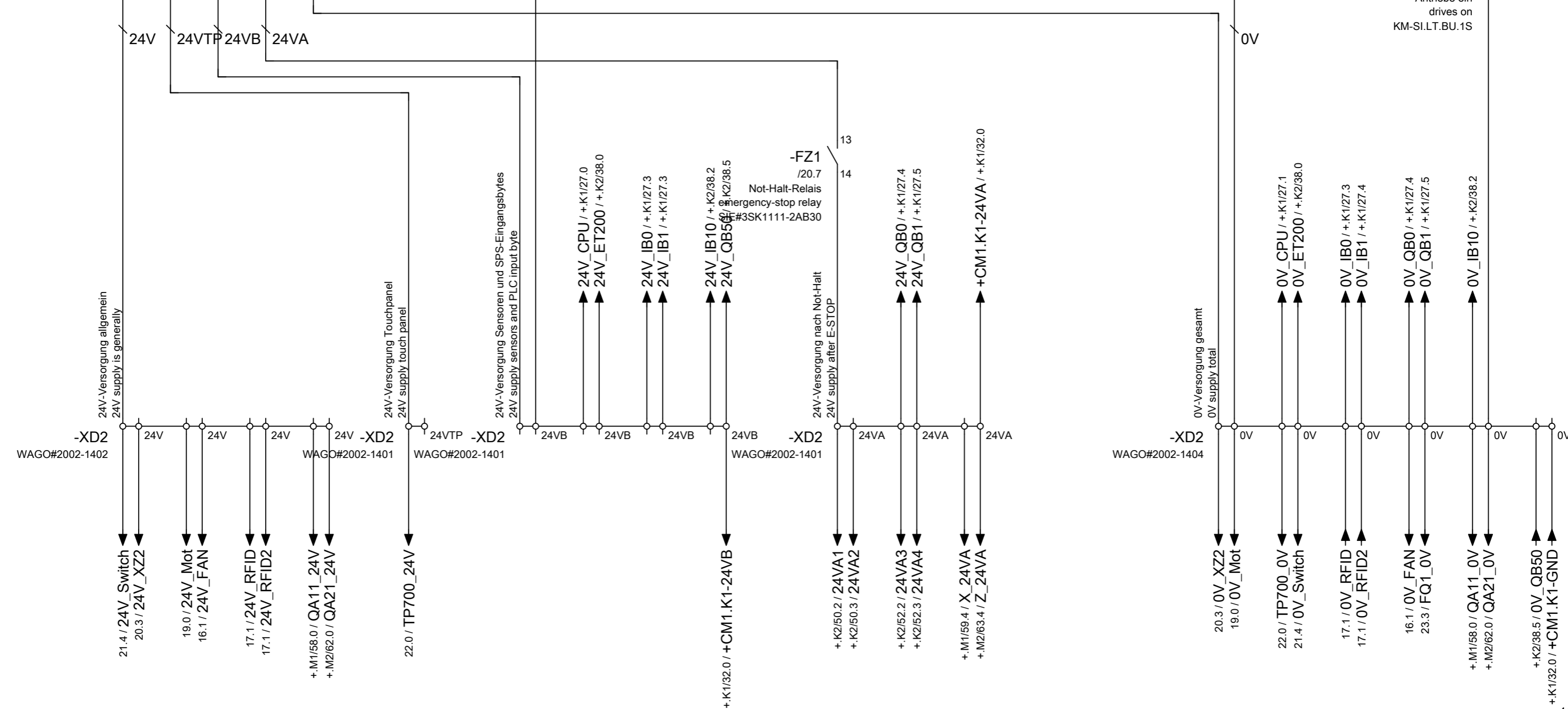
Netzteil Power supply unit

| | | | |
|-----------|----|----------|------------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.T1 | Hauptmontageplatte allgemein |
| | | | Seite 14 von 124 |

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- Ausgang 1 = E-Board intern, Not-Aus, Switch
- Ausgang 2 = Touchpanel
- Ausgang 3 = Versorgung Extern, vor Not-Aus
- Ausgang 4 = Versorgung Extern, nach Not-Aus+Türe, interne Last (Kalea)
- Output 1 = E-Board internal, emergency stop, switch
- Output 2 = Touch panel
- Output 3 = External supply, before emergency stop
- Output 4 = External supply, after emergency stop+door, internal load (Kalea)



<<44

| | | |
|--------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
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| Ze.Nr. | N:FDMR07DE F: | EPL0VZFG7M festo.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP22\Bsp\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk |



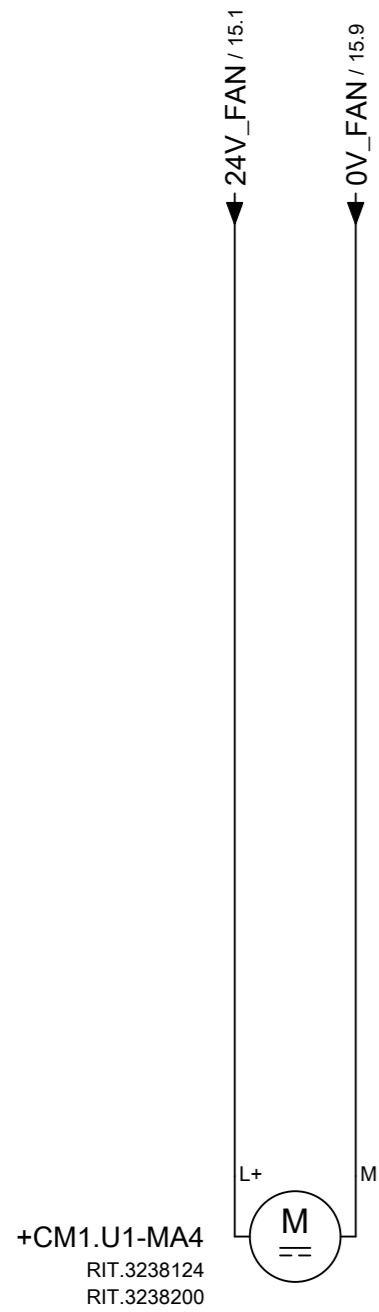
Verteilung 24V DC Distribution 24V DC

| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|------------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 15 |
| + CM1.T1 | Hauptmontageplatte allgemein | von 124 |

16>>

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Schaltschranklüfter
fan electric cabinet

+CM1.U1-MA4
RIT.3238124
RIT.3238200

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | | |

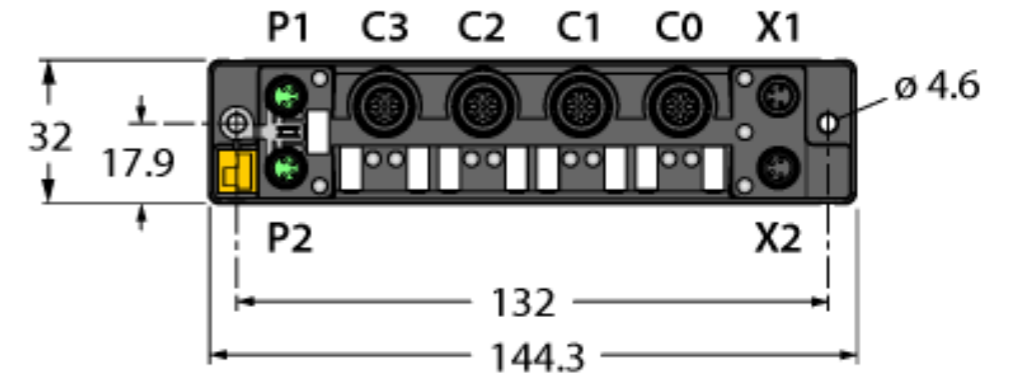
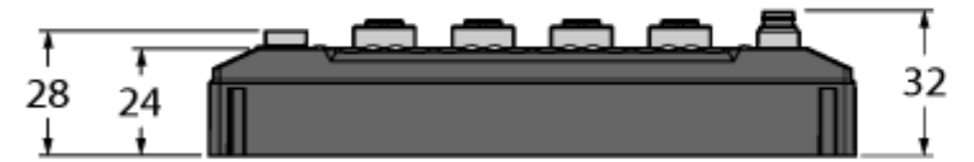
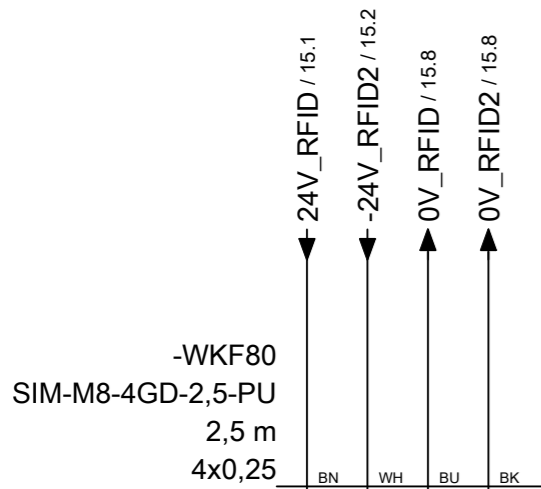


Schaltschranklüfter fan electric cabinet

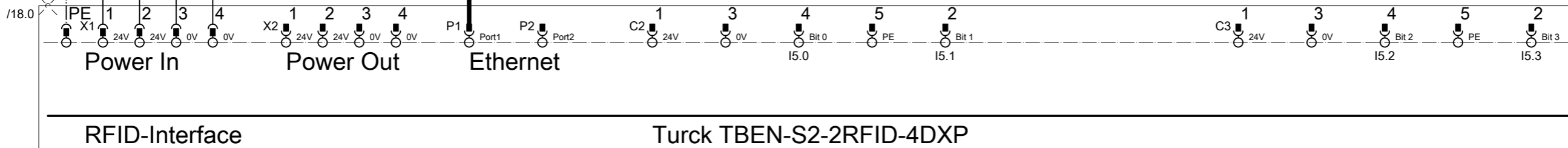
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|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|------------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 16 |
| + CM1.T1 | Hauptmontageplatte allgemein | von 124 |

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-KF31



Stromversorgung
RFID-System

Profinet RFID
Profinet RFID

Powersupply
RFID-System

Reserve
Reserve

Reserve
Reserve

Reserve
Reserve

Reserve
Reserve

<<46

18>>

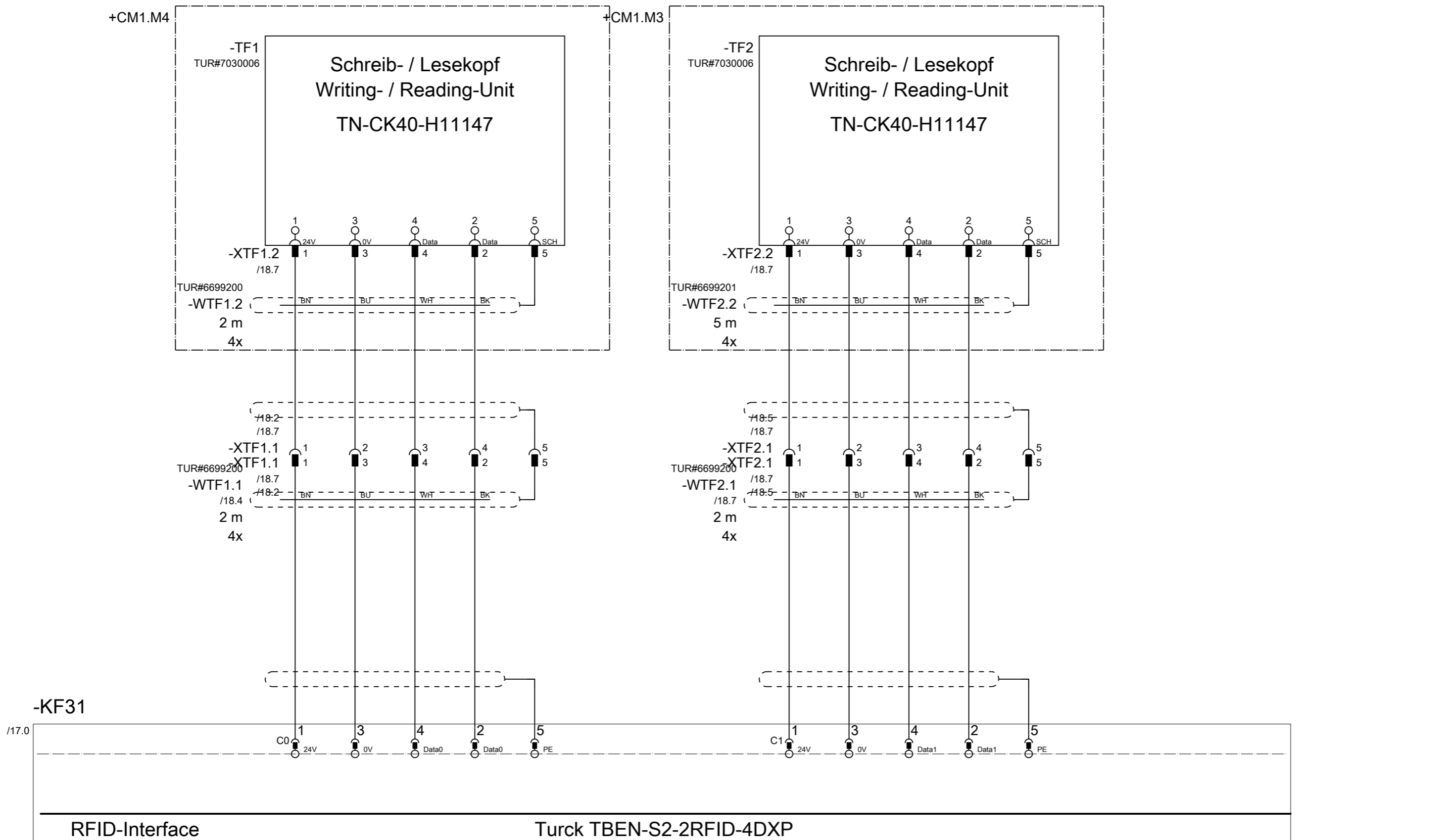
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| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

FESTO RFID-System RFID-System

\\Festo.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\IDidactic\Products\21 CP2RFID-4DXP\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk

| | | | |
|-----------|----|----------|------------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.T1 | Hauptmontageplatte allgemein |
| | | | Seite 17 von 124 |

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RFID-Kopf Zuführung
RFID-reader input conveyor

RFID-Kopf Teleskop
RFID-reader telescope

RFID-Verbindungsstecker M12 im Schaltschrank
-XTF1.1 = RFID connector M12 in the control cabinet
RFID-Anschlusstecker M12 an Lesekopf
+ .M4-XTF1.2 = RFID connector M12 to read head
RFID-Verbindungsstecker M12 im Schaltschrank
-XTF2.1 = RFID connector M12 in the control cabinet
RFID-Anschlusstecker M12 an Lesekopf
+ .M3-XTF2.2 = RFID connector M12 to read head

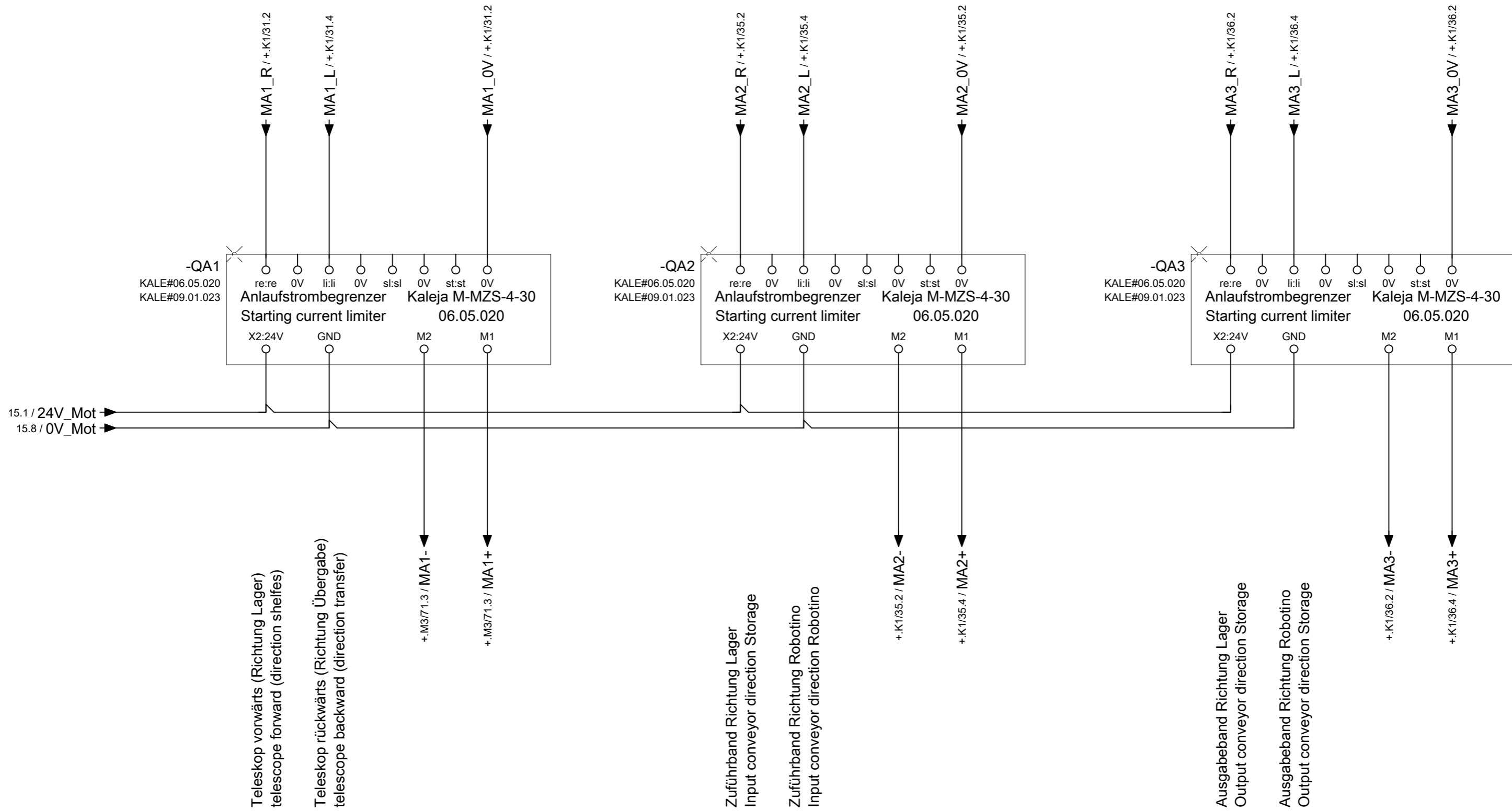
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| <47 | Datum | 16.03.2022 | Festo Didactic SE |
| | Bearb. | Schuhmacher | Rechbergstraße 3 |
| | Erst. | Schuhmacher | D-73770 Denkendorf |
| | Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



RFID-System RFID-System

| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

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Teleskop vorwärts (Richtung Lager)
telescope forward (direction shelves)

Teleskop rückwärts (Richtung Übergabe)
telescope backward (direction transfer)

+M3/71.3 / MA1-

+M3/71.3 / MA1+

Zuführband Richtung Lager
Input conveyor direction Storage

Zuführband Richtung Robotino
Input conveyor direction Robotino

+K1/35.2 / MA2-

+K1/35.4 / MA2+

Ausgabeband Richtung Lager
Output conveyor direction Storage

Ausgabeband Richtung Robotino
Output conveyor direction Storage

+K1/36.2 / MA3-

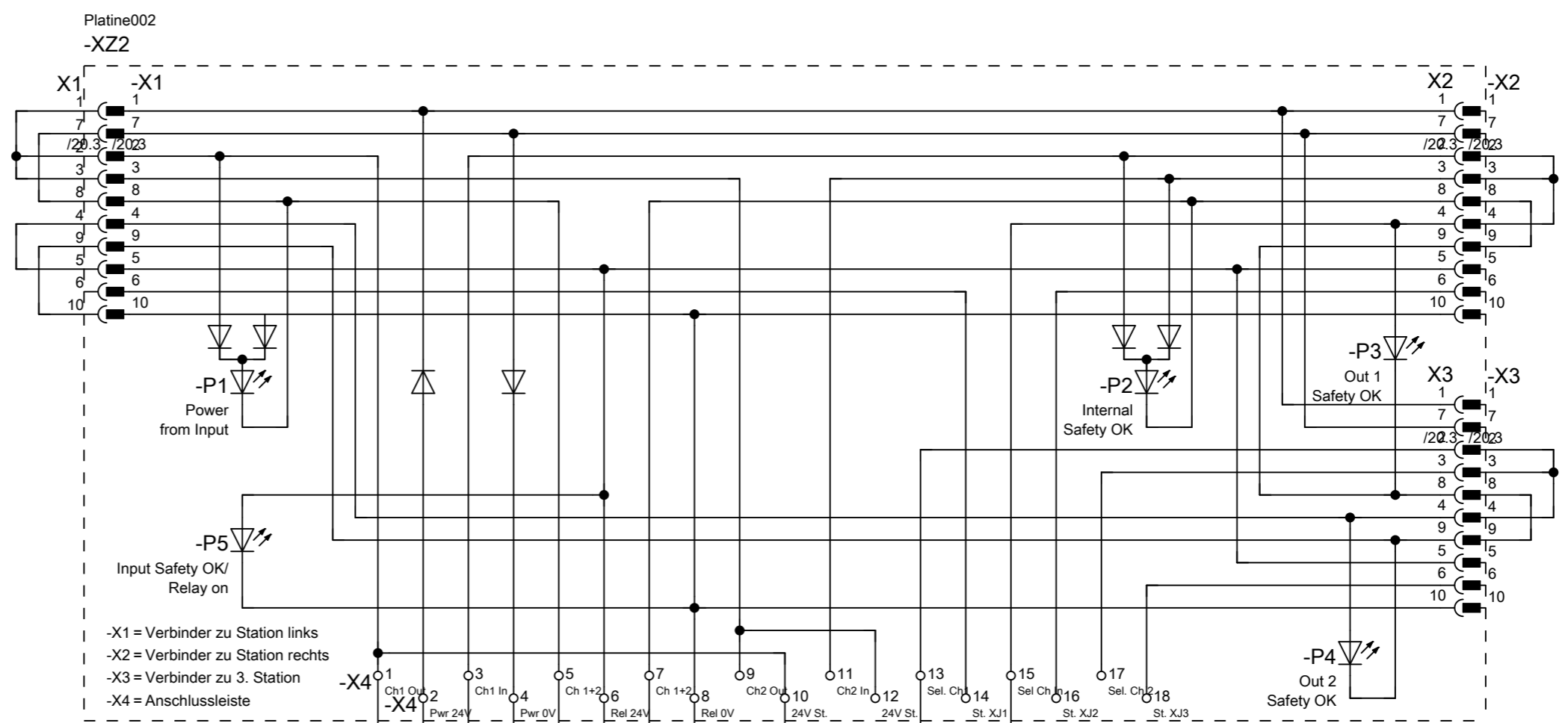
+K1/36.4 / MA3+

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

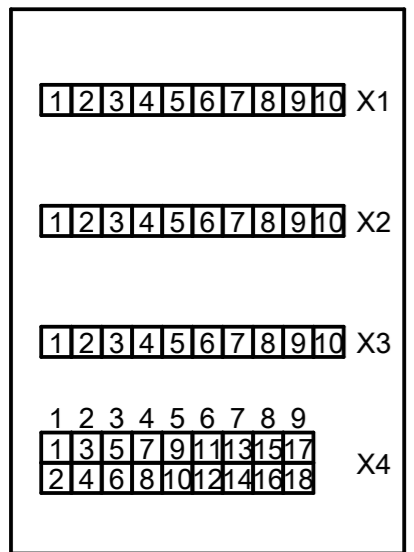


| | | | |
|-----------|----|----------|------------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.T1 | Hauptmontageplatte allgemein |
| | | | Seite 19 von 124 |

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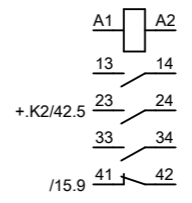
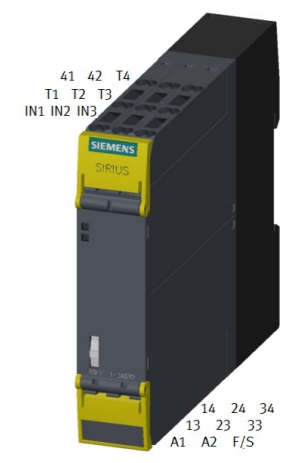
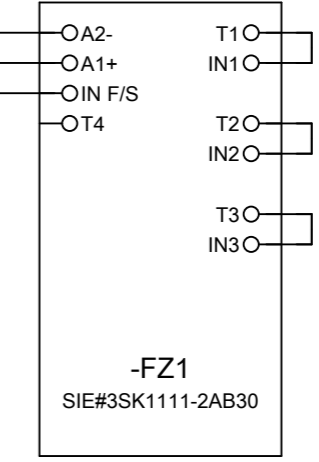
-X1 = Verbinder zu Station links
 -X2 = Verbinder zu Station rechts
 -X3 = Verbinder zu 3. Station
 -X4 = Anschlussleiste



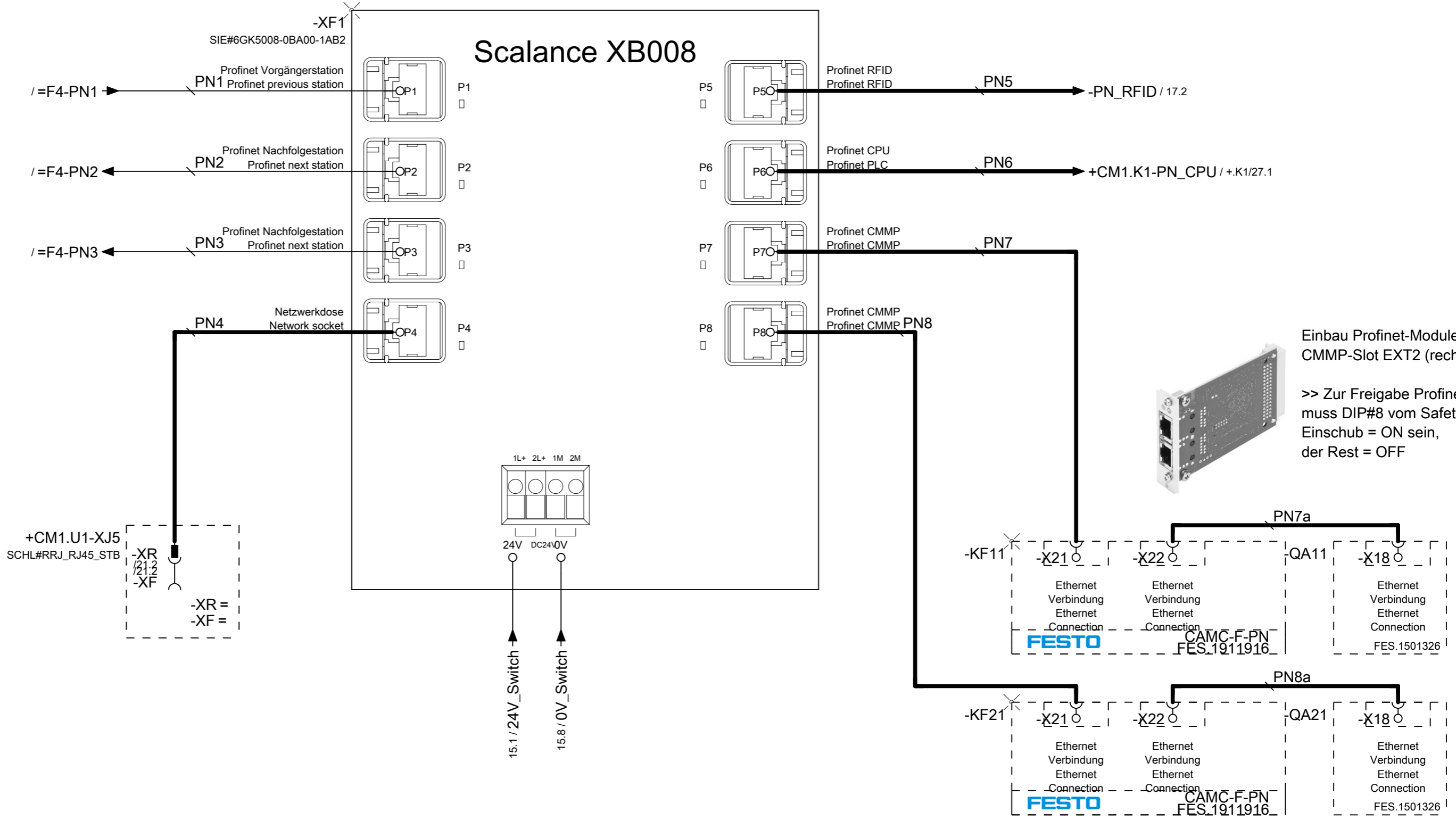
| | | | |
|----|------------------------------------|----|-----------------------------------|
| 1 | Emergency-Switch Channel 1 (Out) | 2 | Power Supply +24V |
| 3 | Emergency-Switch Channel 1 (In) | 4 | Power Supply 0V |
| 5 | Emergency-Switch Channel 1+2 (Out) | 6 | Safety-Relay Output +24V |
| 7 | Emergency-Switch Channel 1+2 (In) | 8 | Safety-Relay Output 0V |
| 9 | Emergency-Switch Channel 2 (Out) | 10 | 24V for Start-Button (from Ch. 1) |
| 11 | Emergency-Switch Channel 2 (In) | 12 | 24V for Start-Button (from Ch. 2) |
| 13 | Channel Select XJ3: Out Channel 1 | 14 | Start-Connector XJ1 |
| 15 | Channel Select XJ3: Input | 16 | Start-Connector XJ2 |
| 17 | Channel Select XJ3: Out Channel 2 | 18 | Start-Connector XJ3 |

15.1 / 24V_XZ2
 15.8 / 0V_XZ2

+K2/56.2 / NA_RK1+
 +K2/56.2 / NA_KR1-
 +K2/56.3 / NA_RK2+
 +K2/56.4 / NA_RK2-
 +K2/54.2 / -KF 19:1
 +K2/54.2 / -KF 19:2



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| | | | | | | | | | |
|--------------------|--|--------------------------|--|---------------------------------------------|--|------------------------------|--|----------|--|
| Datum 16.03.2022 | | Festo Didactic SE | | FESTO Netzwerkschicht Network-Switch | | S-Nr. | | | |
| Bearb. Schuhmacher | | Rechbergstraße 3 | | | | PSP / DPJ VN | | | |
| Erst. Schuhmacher | | D-73770 Denkendorf | | = CM1 | | Hochregallager Box -1512SP | | Seite 21 | |
| Ze.Nr. | | N:FDMR07DE F: EPL0VZFG7M | | + CM1.T1 | | Hauptmontageplatte allgemein | | von 124 | |

<20

22>>

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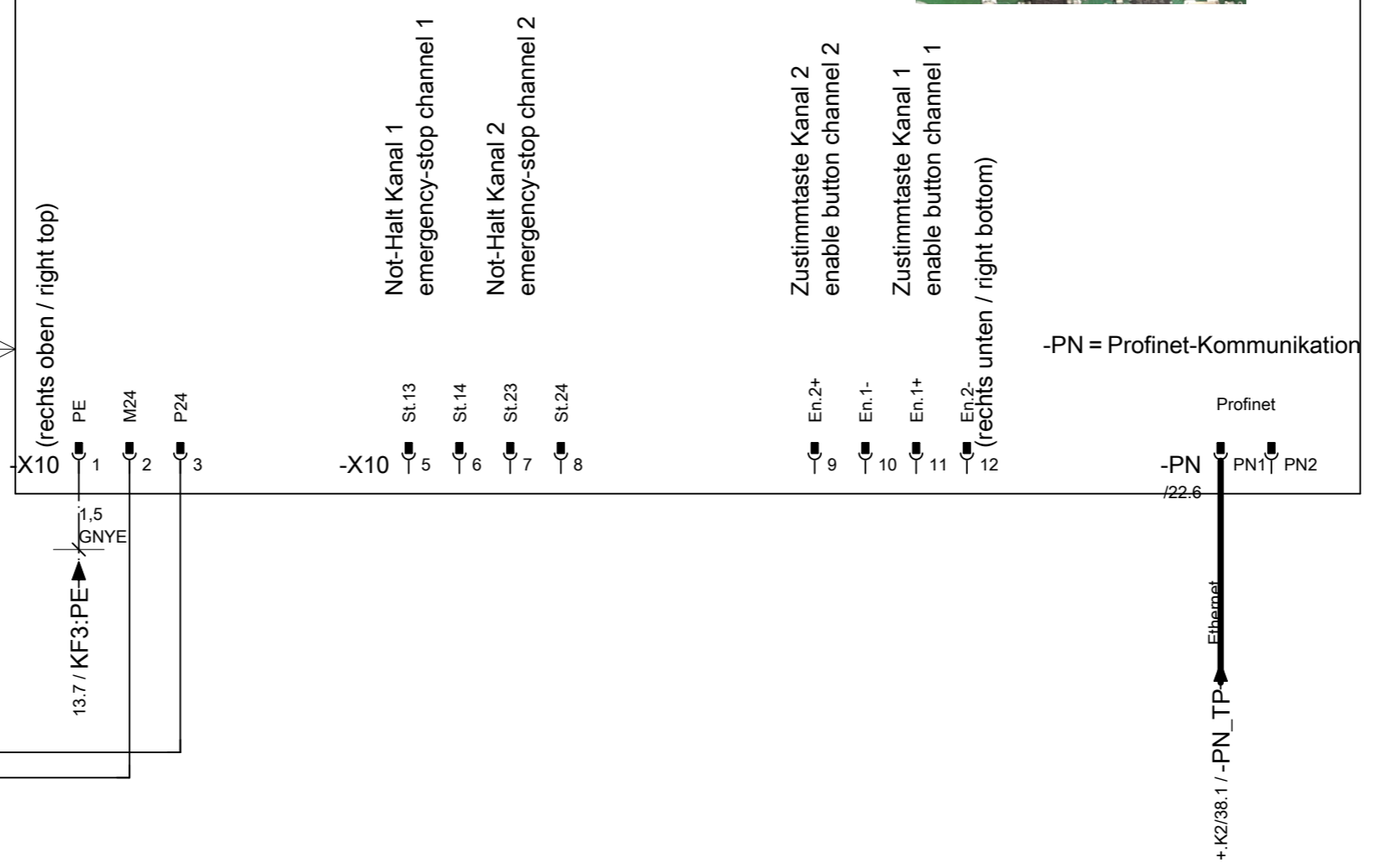
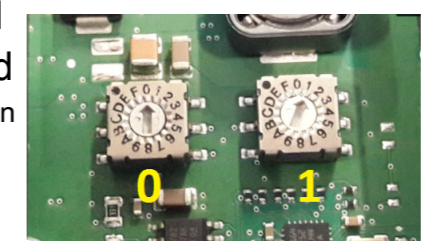
+CM1.U1-PH1
 SIE#6AV2181-5AG80-0AX0
 SIE#6AV2181-5AF05-0AX0
 SIE#6AV2125-2GB23-0AX0



-KF3
 SIE#6AV2125-2AE23-0AX0

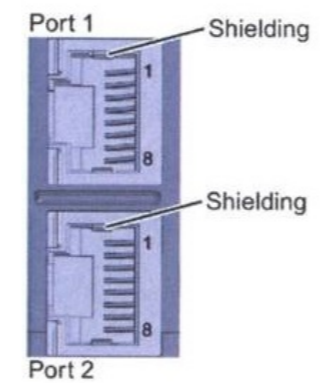
**AnschlussBox Advanced
 ConnectionBox Advanced**

Box-ID auf "01" einstellen
 set Box-ID to "01"



15.2 / TP700_24V
 15.8 / TP700_0V

BusAdapter BA 2xRJ45



| | | | |
|---|-------|-------|-----------------------|
| 1 | TD | WH-OR | Transmit Data + |
| 2 | TD_N | OR | Transmit Data - |
| 3 | RD | WH-GN | Receive Data + |
| 4 | TERM1 | BU | Termination Network 1 |
| 5 | TERM1 | WH-BU | Termination Network 1 |
| 6 | RD_N | GN | Receive Data - |
| 7 | TERM2 | WH-BN | Termination Network 2 |
| 8 | TERM2 | BN | Termination Network 2 |

FREMDSPRACHE

<21

23>>

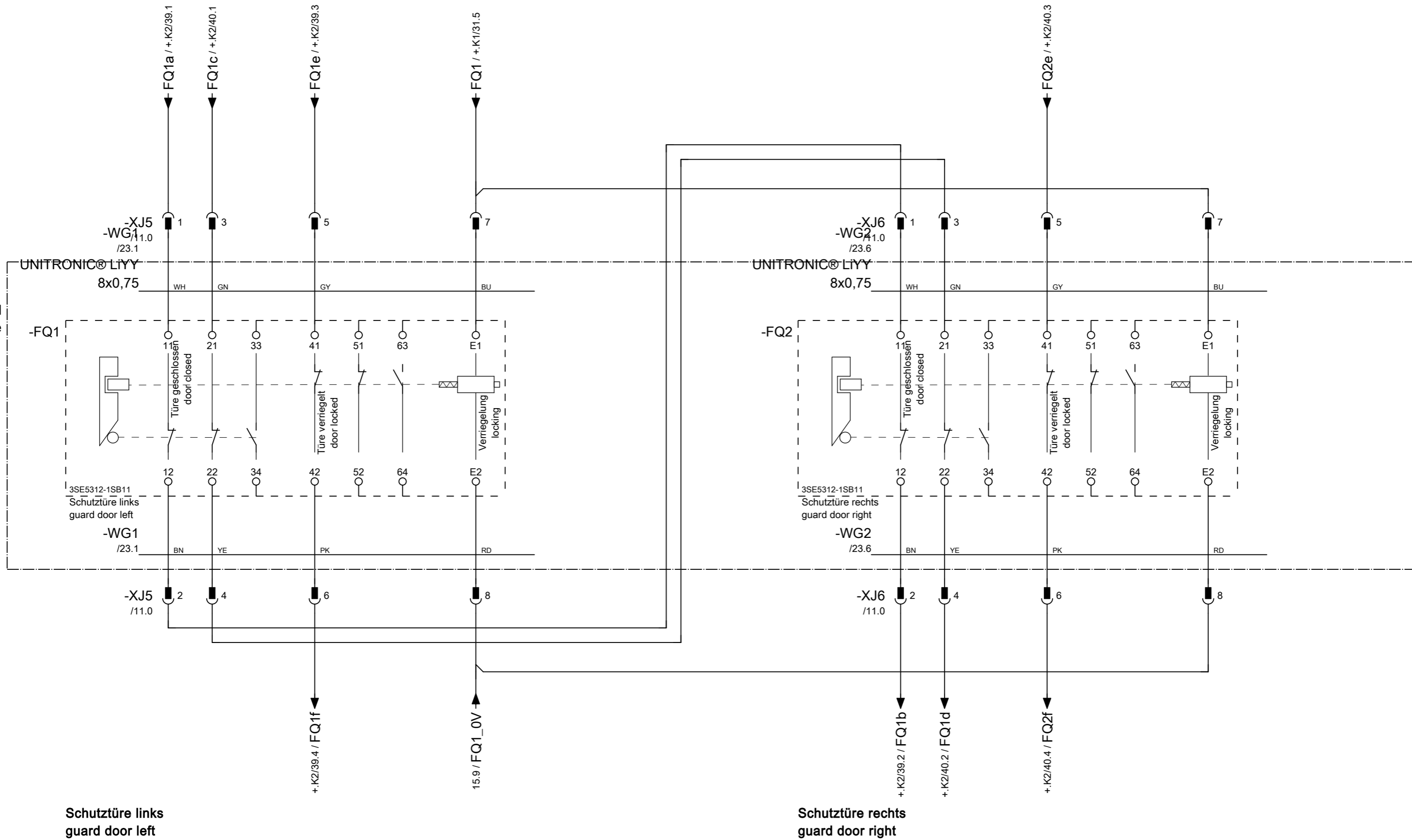
| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

FESTO Mobile Panel KTP700F Mobile Panel
 KTP700F

| | | | |
|-----------|----|----------|------------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.T1 | Hauptmontageplatte allgemein |
| | | | Seite 22 von 124 |

Diese Zeichnung ist Eigentum der Festo Didactic SE

CM1.C1
Lagergestell
ASRS frame



| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



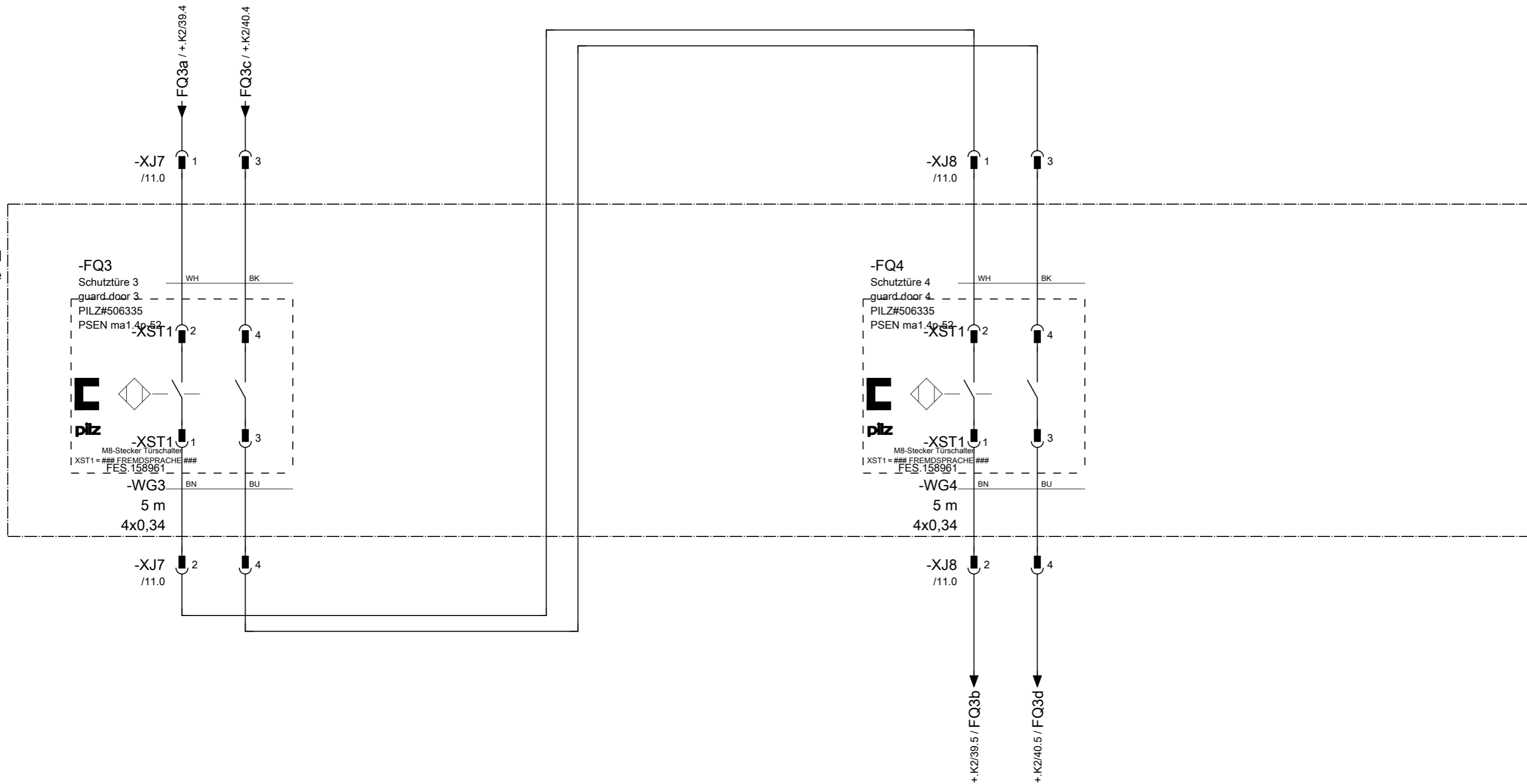
Türschalter vorne front door safety switch

| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|------------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 23 |
| + CM1.T1 | Hauptmontageplatte allgemein | von 124 |

Diese Zeichnung ist Eigentum der Festo Didactic SE. This Drawing is copyright Festo Didactic SE

CM1.C1
Lagergestell
ASRS frame

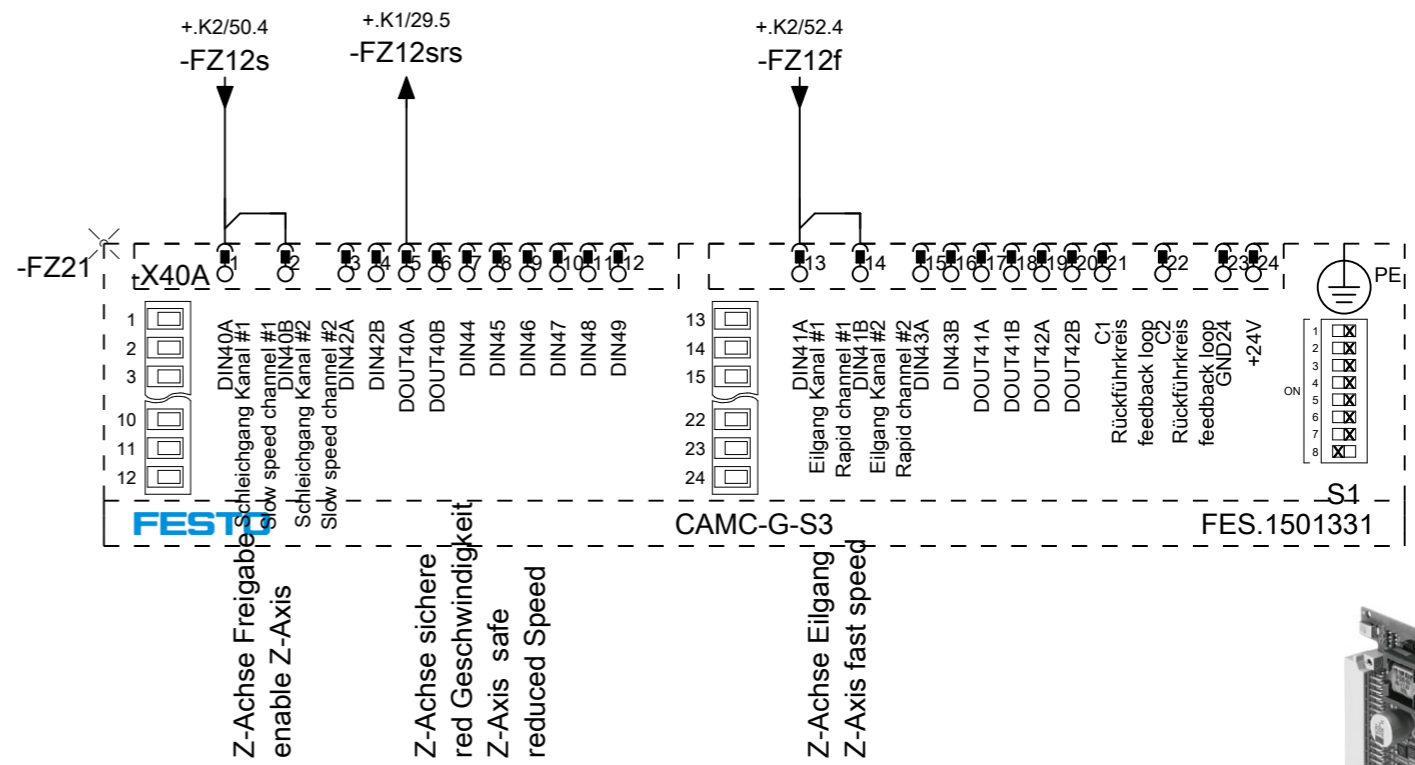
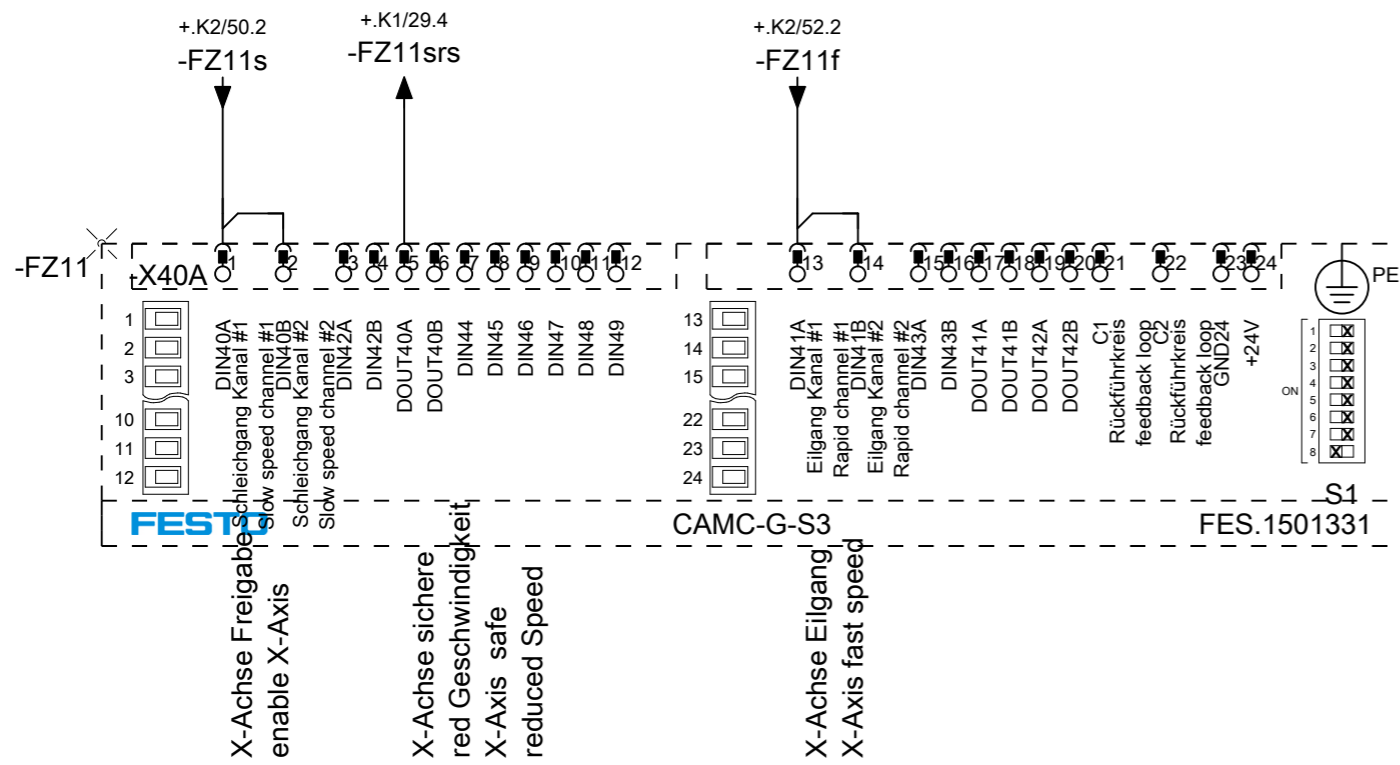


| | | |
|--------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE F: | EPL0VZFG7M \\Festo.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP2\FES.158961\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk |



Türschalter hinten rear door safety switch

| | | | |
|-----------|----|----------|------------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.T1 | Hauptmontageplatte allgemein |
| | | | Seite 24 von 124 |



- DIN40 A,B default : Not-Halt-Schaltgerät, Anforderung STO
 - DIN42 A,B
 - DOUT40 A,B
 - DIN44 A,B default: Rückmeldung Bremse
 - DIN 45,46,47 default: Betriebsartenwahlschalter
 - DIN 48 default: Fehlerquittierung
 - DIN 49 default: Sicherheitsfunktion Beenden
 - DIN41 A,B
 - DIN43 A,B
 - DOUT41 A,B
 - DOUT42 A,B
 - C1,C2 Relais out, default: Sicherer Zustand erreicht
 - GND24 Bezugspotential
 - +24V Ausgang
-
- DIN40 A,B default : Emergency stop switchgear, requirement STO
 - DIN42 A,B
 - DOUT40 A,B
 - DIN44 A,B default: Brake feedback signal
 - DIN 45,46,47 default: Operating mode selector switch
 - DIN 48 default: Error acknowledgement
 - DIN 49 default: safety function end
 - DIN41 A,B
 - DIN43 A,B
 - DOUT41 A,B
 - DOUT42 A,B
 - C1,C2 Relay out, default: Safe state reached
 - GND24 Reference potential
 - +24V output



<24

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



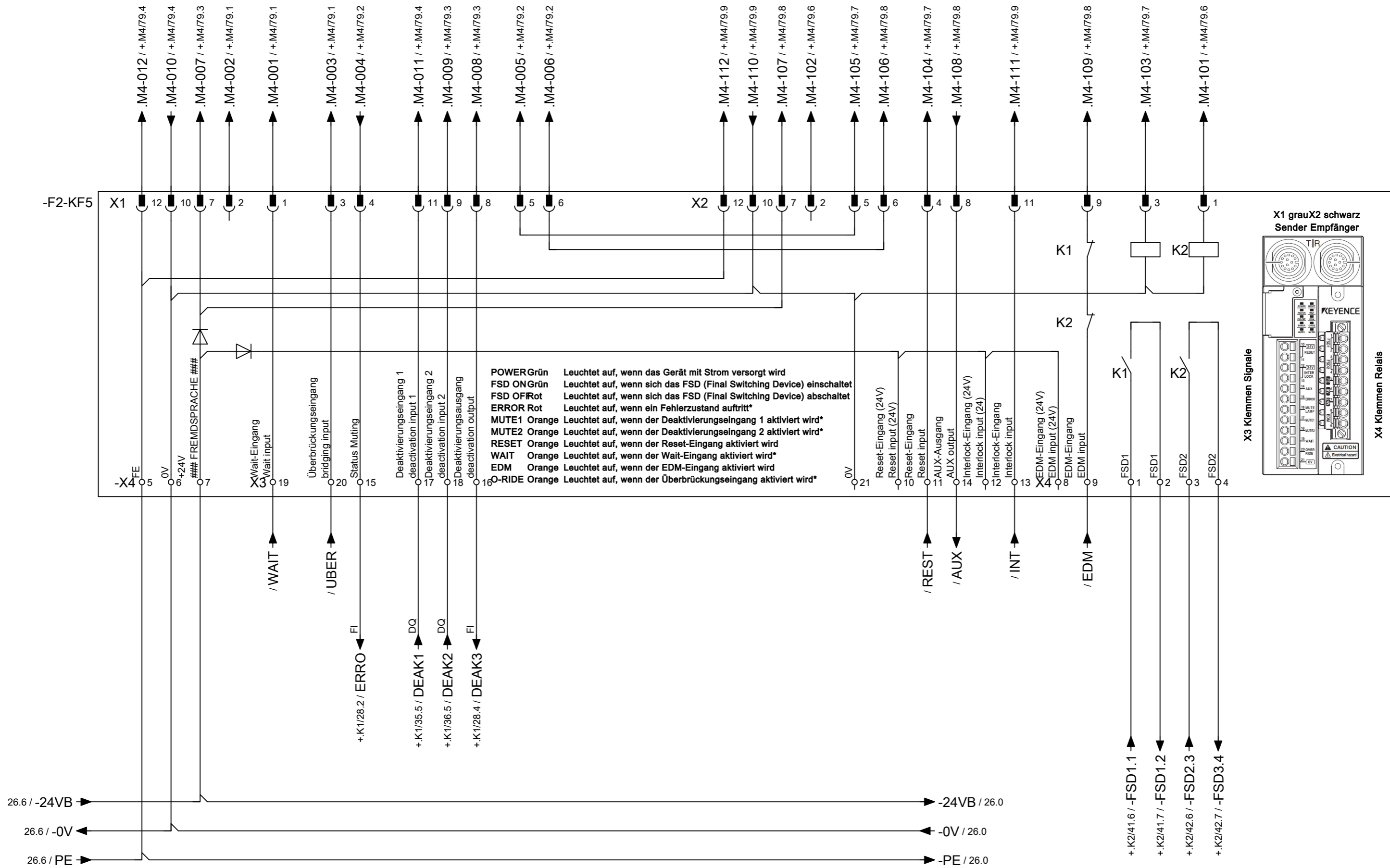
Servocontroller Sicherheitsmodul
Motorcontroller safety

| | | | |
|-----------|----|----------|------------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.T1 | Hauptmontageplatte allgemein |
| | | | Seite 25 von 124 |

26 >>

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<25

+K1/27>>

| | | |
|--------|---------------|--------------------|
| Datum | 21.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE F: | EPL0VZFG7M |



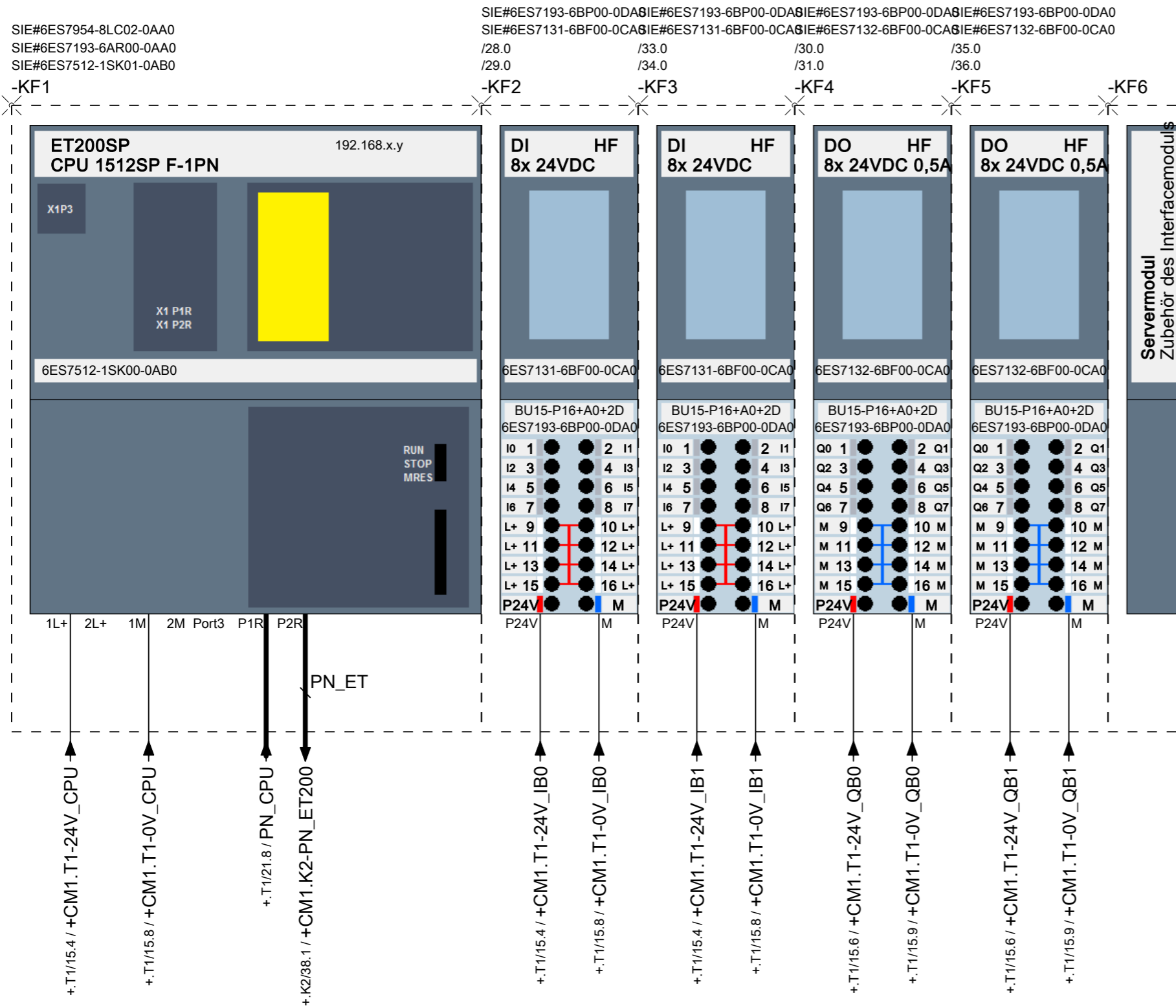
Lichtvorhang light curtain

| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|------------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 26 |
| + CM1.T1 | Hauptmontageplatte allgemein | von 124 |

N:\Festo.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP2\FZG7M\laktuell\Kistenlager\KistenlagerV7 2022-03-16.elk

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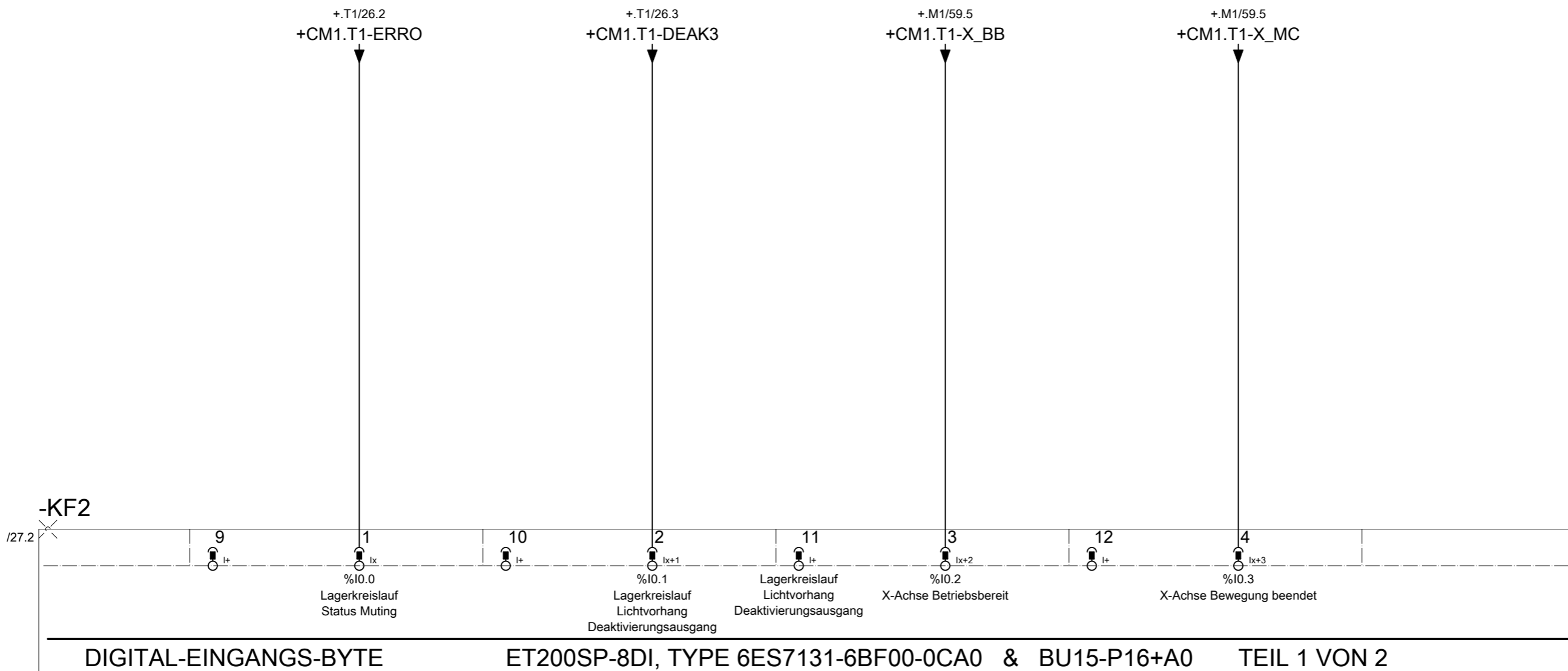


| | | |
|--------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Reichbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE F: | EPL0VZFG7M \Festo.net\dfs01\INT\Data\EPLAN\DATA_xx\IDEI\Projects\Didactic\Products\21 CP2\Bsp\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk |



SPS-Übersicht PLC overview

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K1 | Hauptmontageplatte SPS |
| | | | Seite 27 von 124 |



DIGITAL-EINGANGS-BYTE

ET200SP-8DI, TYPE 6ES7131-6BF00-0CA0 & BU15-P16+A0 TEIL 1 VON 2

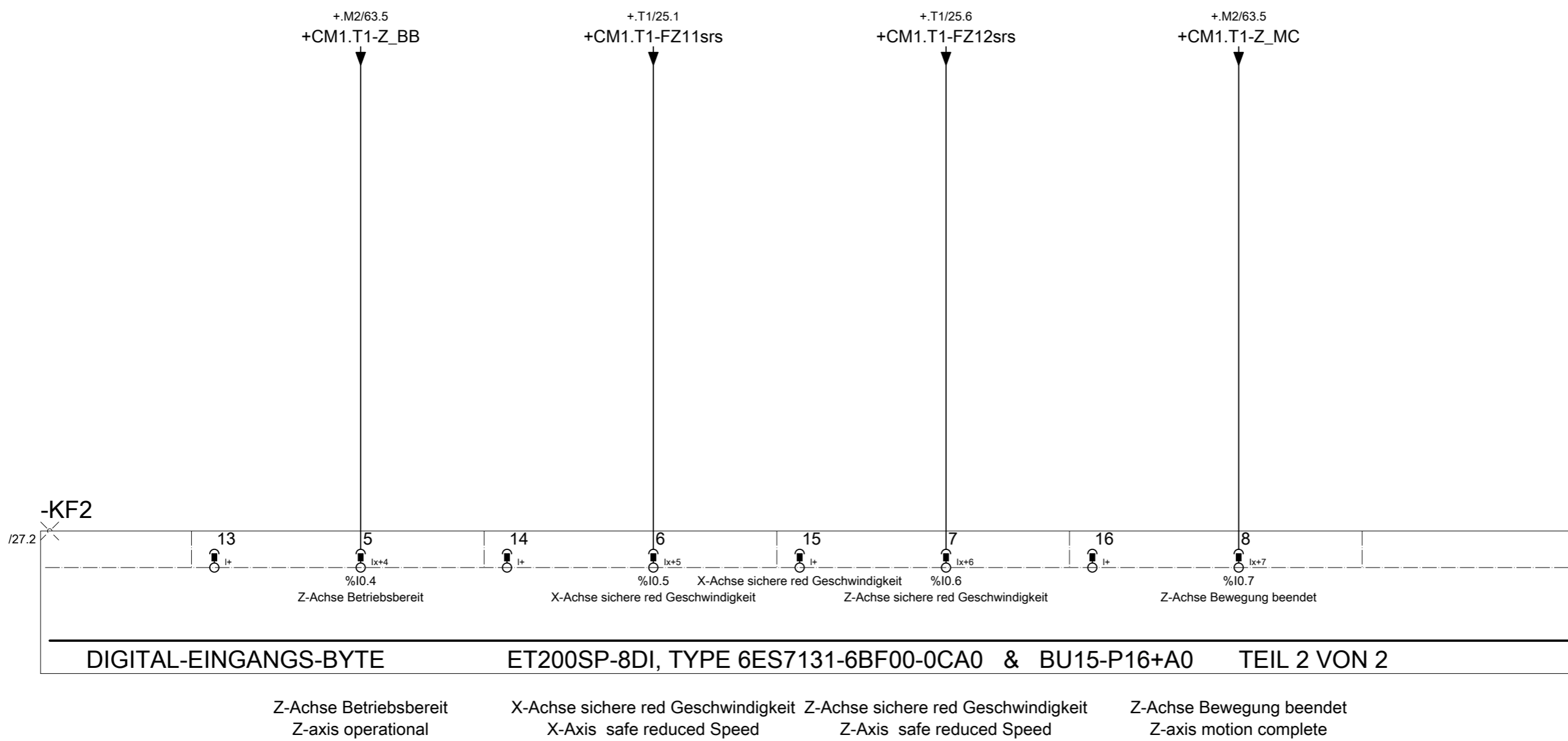
Lagerkreislauf
Status Muting
Bearing circuit
Status muting

Lagerkreislauf
Lichtvorhang
Deaktivierungsausgang
Bearing circuit
Light curtain
Deactivation output

X-Achse Betriebsbereit
X-axis operational

X-Achse Bewegung beendet
X-axis motion complete

Diese Zeichnung ist Eigentum der Festo Didactic SE. This Drawing is copyright by Festo Didactic SE



DIGITAL-EINGANGS-BYTE ET200SP-8DI, TYPE 6ES7131-6BF00-0CA0 & BU15-P16+A0 TEIL 2 VON 2

Z-Achse Betriebsbereit Z-axis operational X-Achse sichere red Geschwindigkeit X-Axis safe reduced Speed Z-Achse sichere red Geschwindigkeit Z-Axis safe reduced Speed Z-Achse Bewegung beendet Z-axis motion complete

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



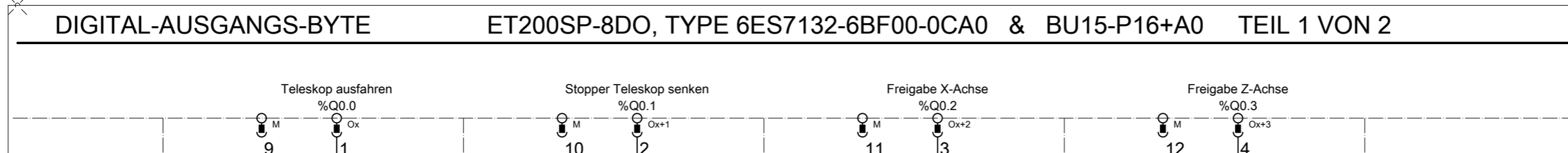
Eingangs-Byte 0 Input-Byte 0

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K1 | Hauptmontageplatte SPS |
| | | | Seite 29 von 124 |

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-KF4

/27.4



+CM1.K2-OUT1
+.K2/45.7

+CM1.K2-OUT3
+.K2/45.7

+CM1.T1-X_EF
+.M1/59.4

+CM1.T1-Z_EF
+.M2/63.4

Teleskop ausfahren
move telescope forward

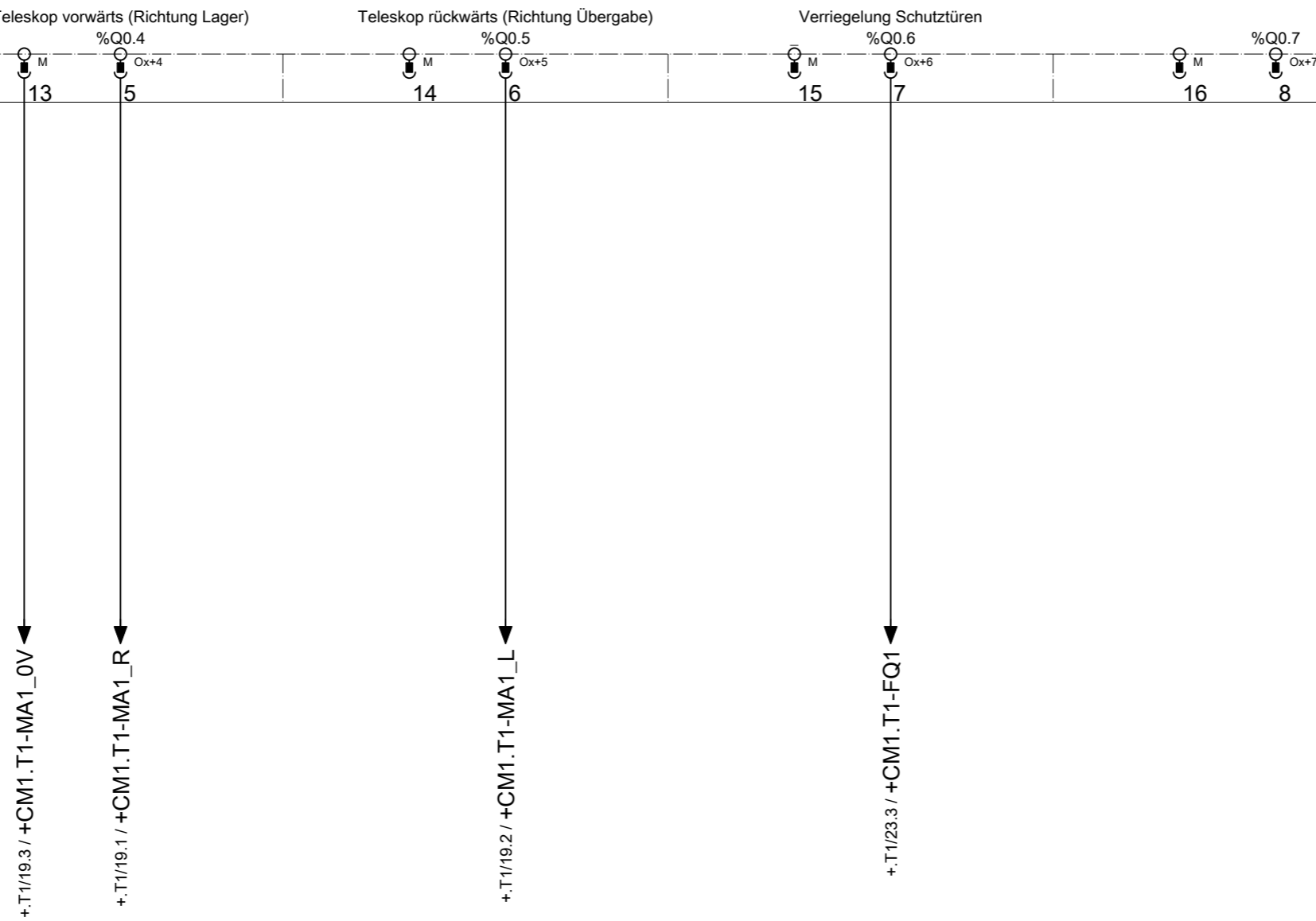
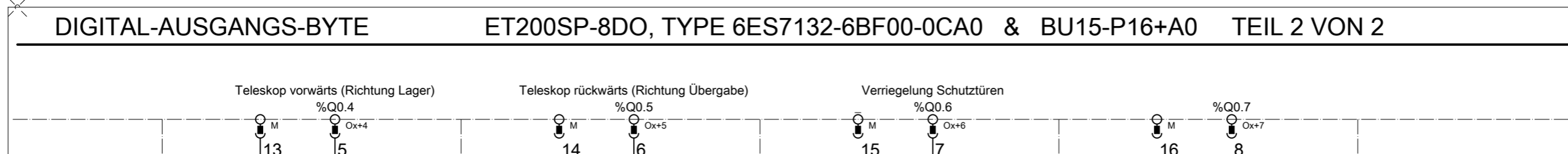
Stopper Teleskop senken
open Stopper telescope

Freigabe X-Achse
enable X-Axis

Freigabe Z-Achse
enable Z-Axis

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-KF4
/27,4



Verriegelung Schutztüren
locking safety doors

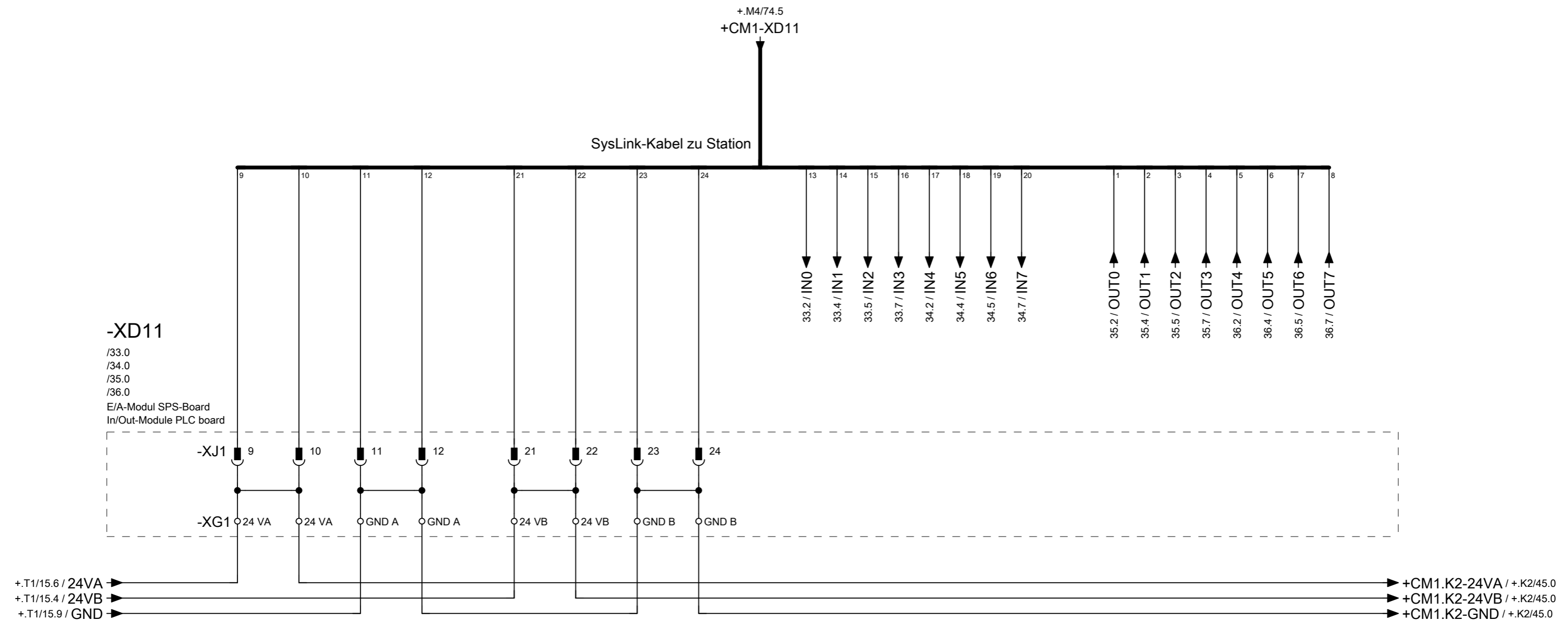
| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Ausgangs-Byte 0 Output-Byte 0

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K1 | Hauptmontageplatte SPS |
| | | | Seite 31 von 124 |

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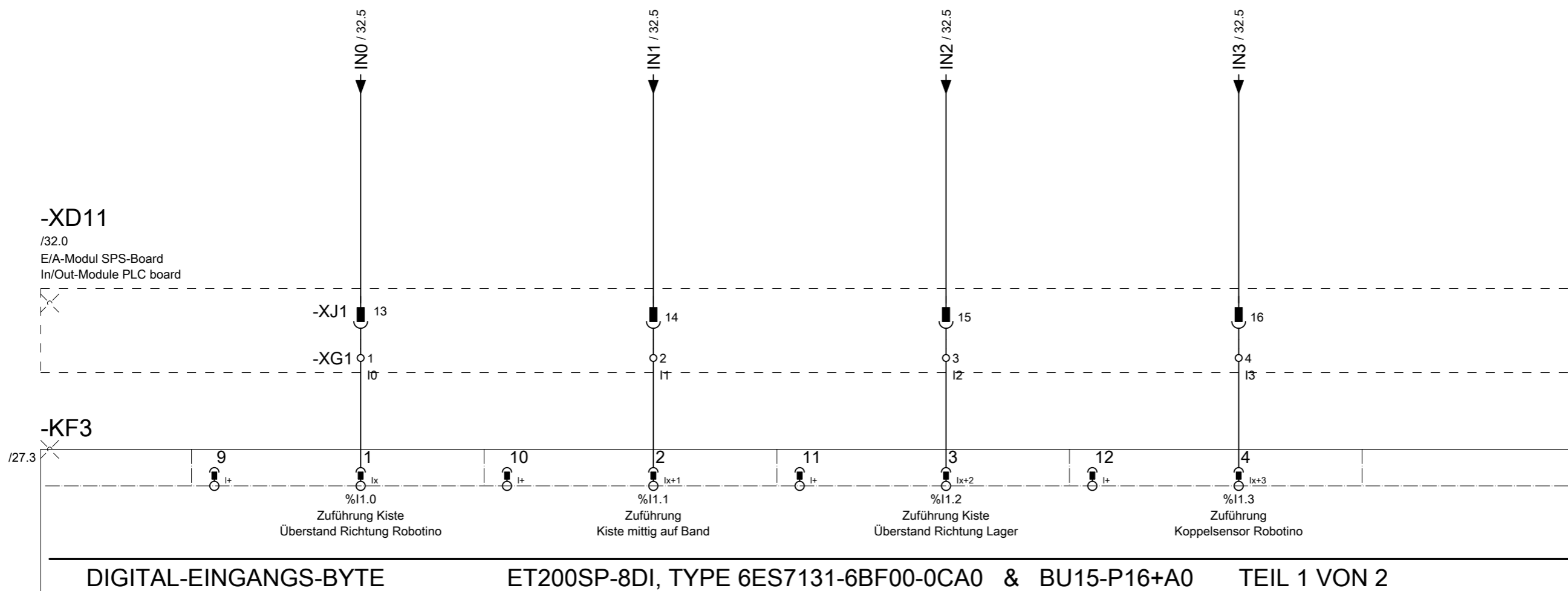
| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



SysLink-Modul 1 SysLink-module 1

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K1 | Hauptmontageplatte SPS |
| | | | Seite 32 von 124 |

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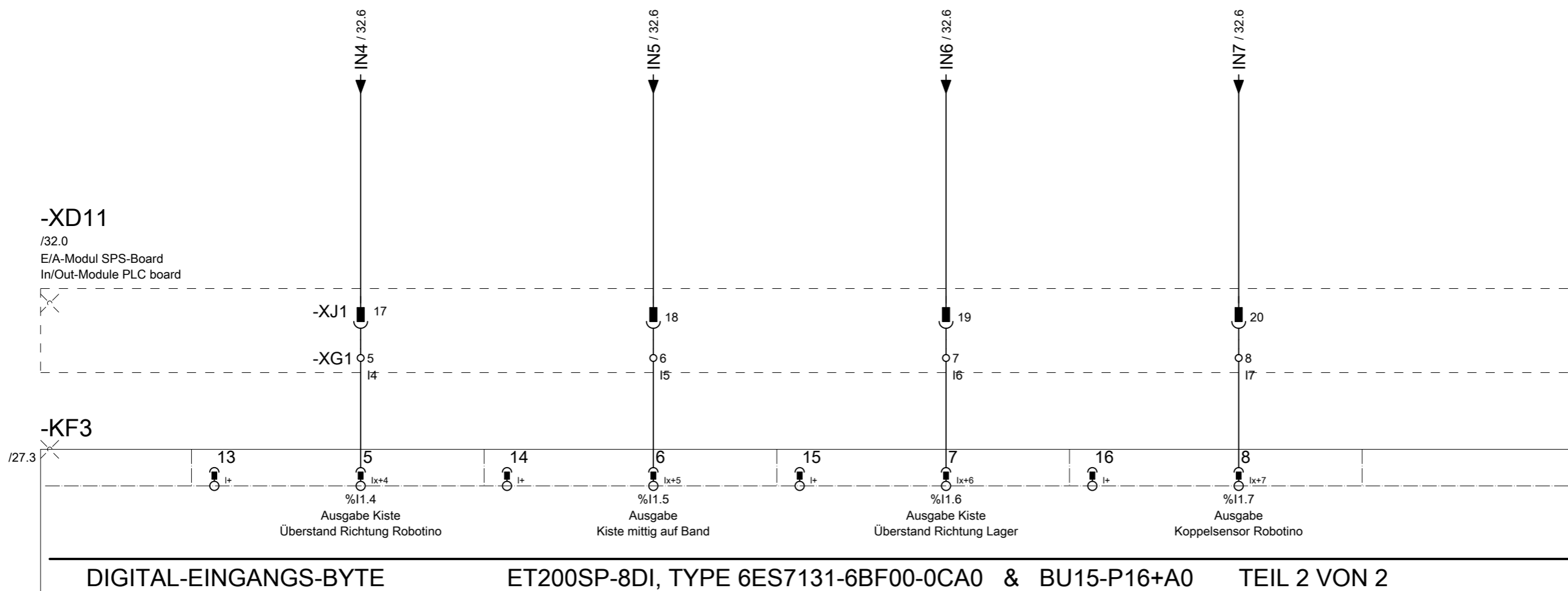
| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Eingangs-Byte 1 Input-Byte 1

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K1 | Hauptmontageplatte SPS |
| | | | Seite 33 von 124 |

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| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

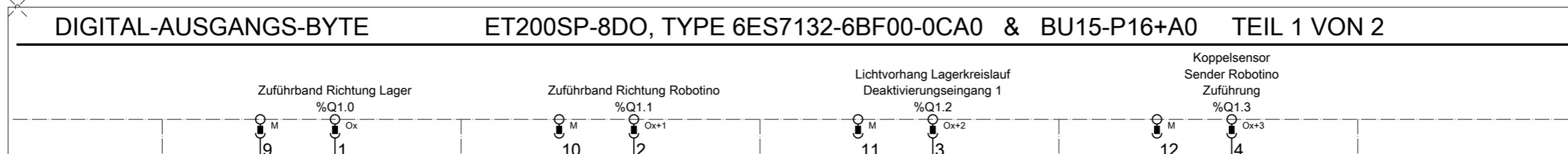


Eingangs-Byte 1 Input-Byte 1

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K1 | Hauptmontageplatte SPS |
| | | | Seite 34 von 124 |

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-KF5
/27,5



32.7 / OUT0

32.7 / OUT1

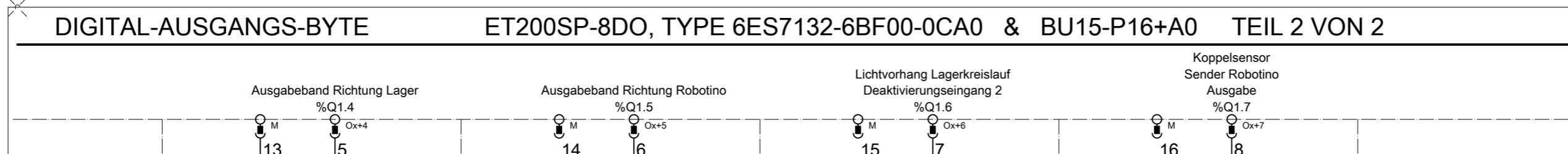
32.7 / OUT2

32.7 / OUT3

Lichtvorhang Lagerkreislauf
Deaktivierungseingang 1
Light curtain bearing circuit
Deactivation input 1

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-KF5
/27,5



Lichtvorhang Lagerkreislauf
Deaktivierungseingang 2
Light curtain bearing circuit
Deactivation input 2

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

FESTO Ausgangs-Byte 1 Output-Byte 1

\\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP2191\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K1 | Hauptmontageplatte SPS |
| | | | Seite 36 von 124 |

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0 1 2 3 4 5 6 7 8 9

<36

+K2/38>>

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | | |



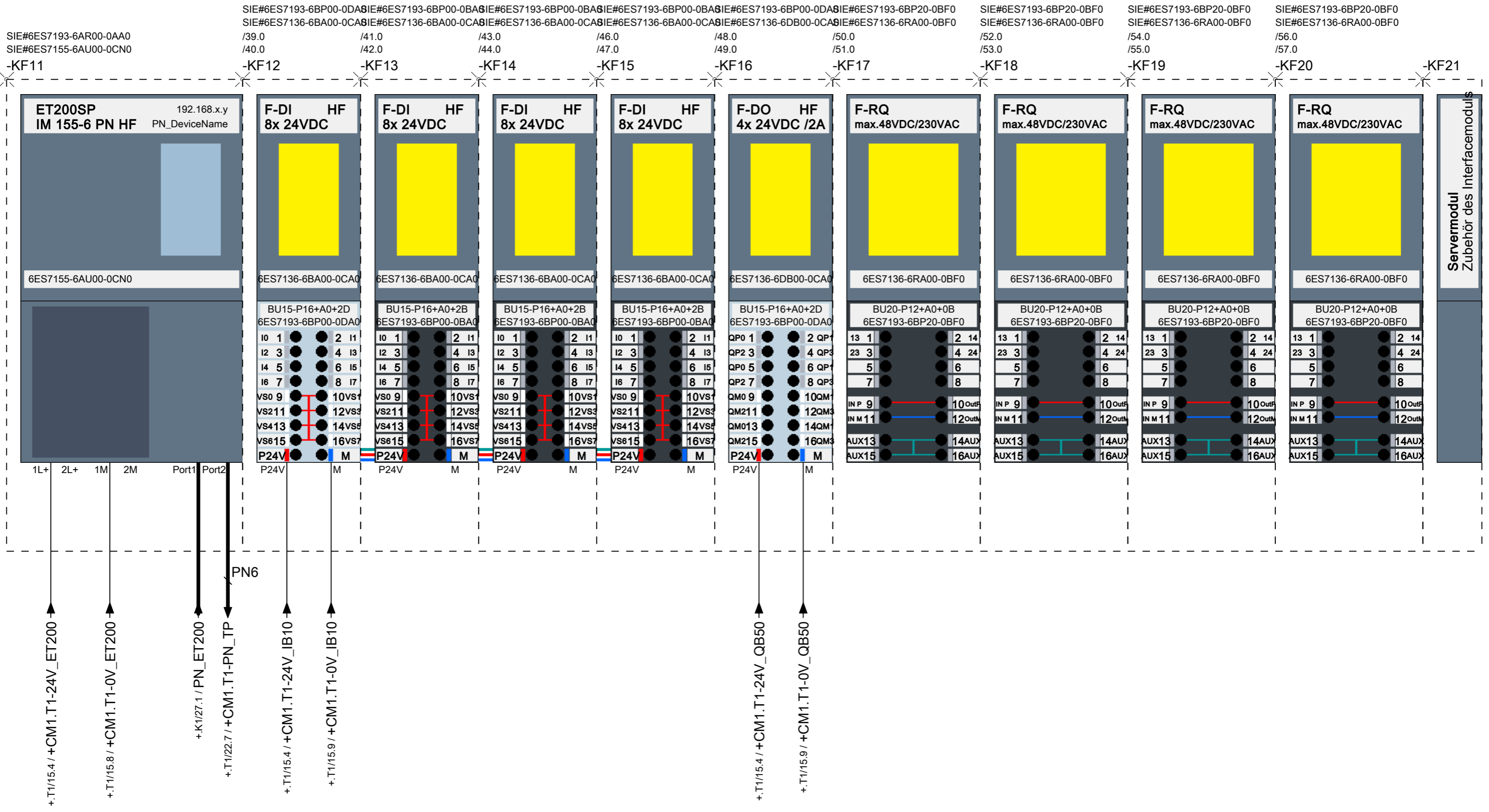
Option RS422 KES Option RS422 KES

| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|----------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 37 |
| + CM1.K1 | Hauptmontageplatte SPS | von 124 |

N:FDMR07DE F: EPL0VZFG7M \\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP21914\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk

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<< .K1/37

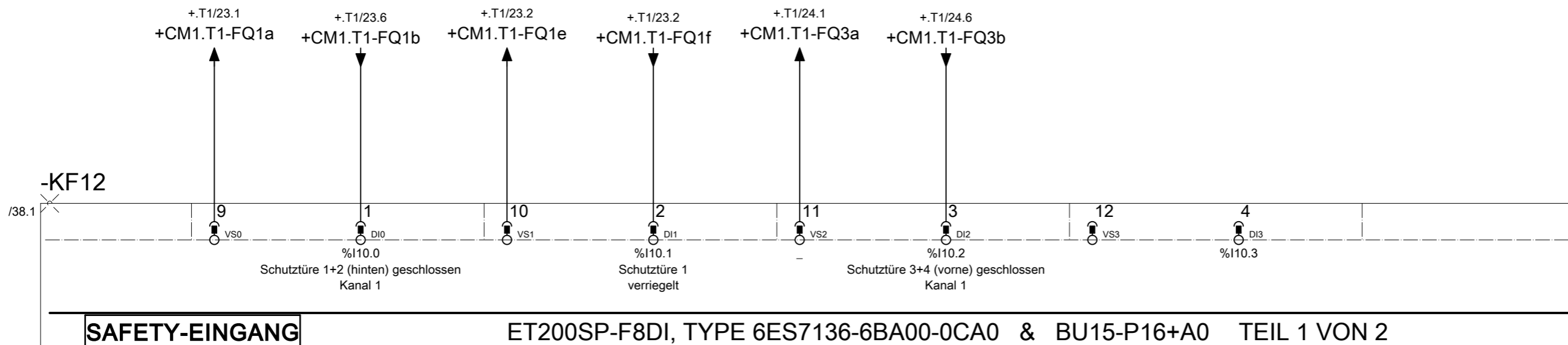
39 >>

| | | |
|--------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Reichbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE F: | EPL0VZFG7M festo.net/dfs01/INT/Data/PLAN/DATA_xx/IDEI/Projects/Didactic/Products/21 CP219/219/aktuell Kistenlager/KistenlagerV7 2022-03-16.elk |



SPS-Übersicht PLC overview

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 38 von 124 |



Schutztüre 1+2 (hinten) geschlossen Kanal 1
 safety door 1+2 (rear) closed channel 1

Schutztüre 1 verriegelt
 safety door 1 locked

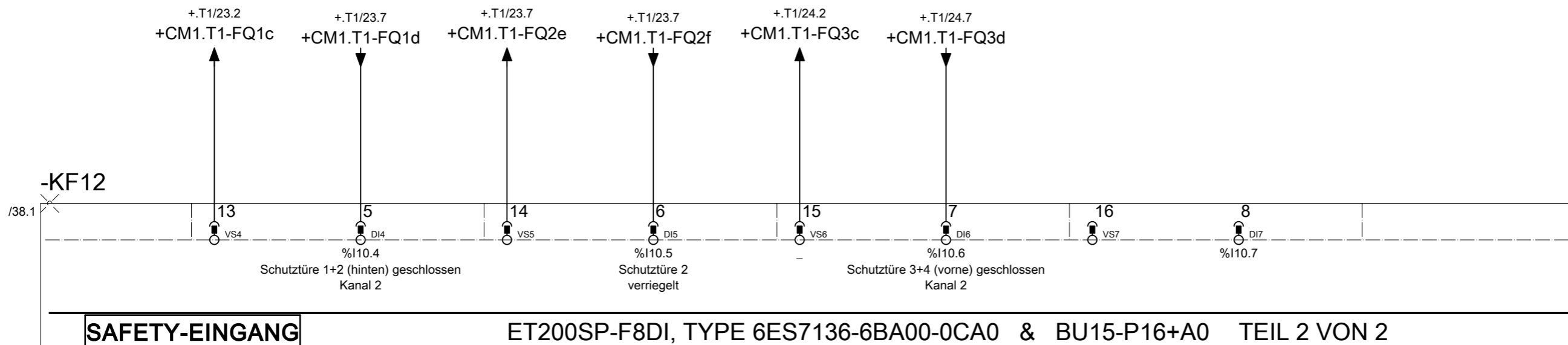
Schutztüre 3+4 (vorne) geschlossen Kanal 1
 safety door 3+4 (front) closed channel 1

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Safety-Eingangsbyte 10 Safety-Inputbyte 10

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 39 von 124 |



SAFETY-EINGANG

ET200SP-F8DI, TYPE 6ES7136-6BA00-0CA0 & BU15-P16+A0 TEIL 2 VON 2

Schutztüre 1+2 (hinten) geschlossen Kanal 2
 safety door 1+2 (rear) closed channel 2

Schutztüre 2 verriegelt
 safety door 2 locked

Schutztüre 3+4 (vorne) geschlossen Kanal 2
 safety door 3+4 (front) closed channel 2

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



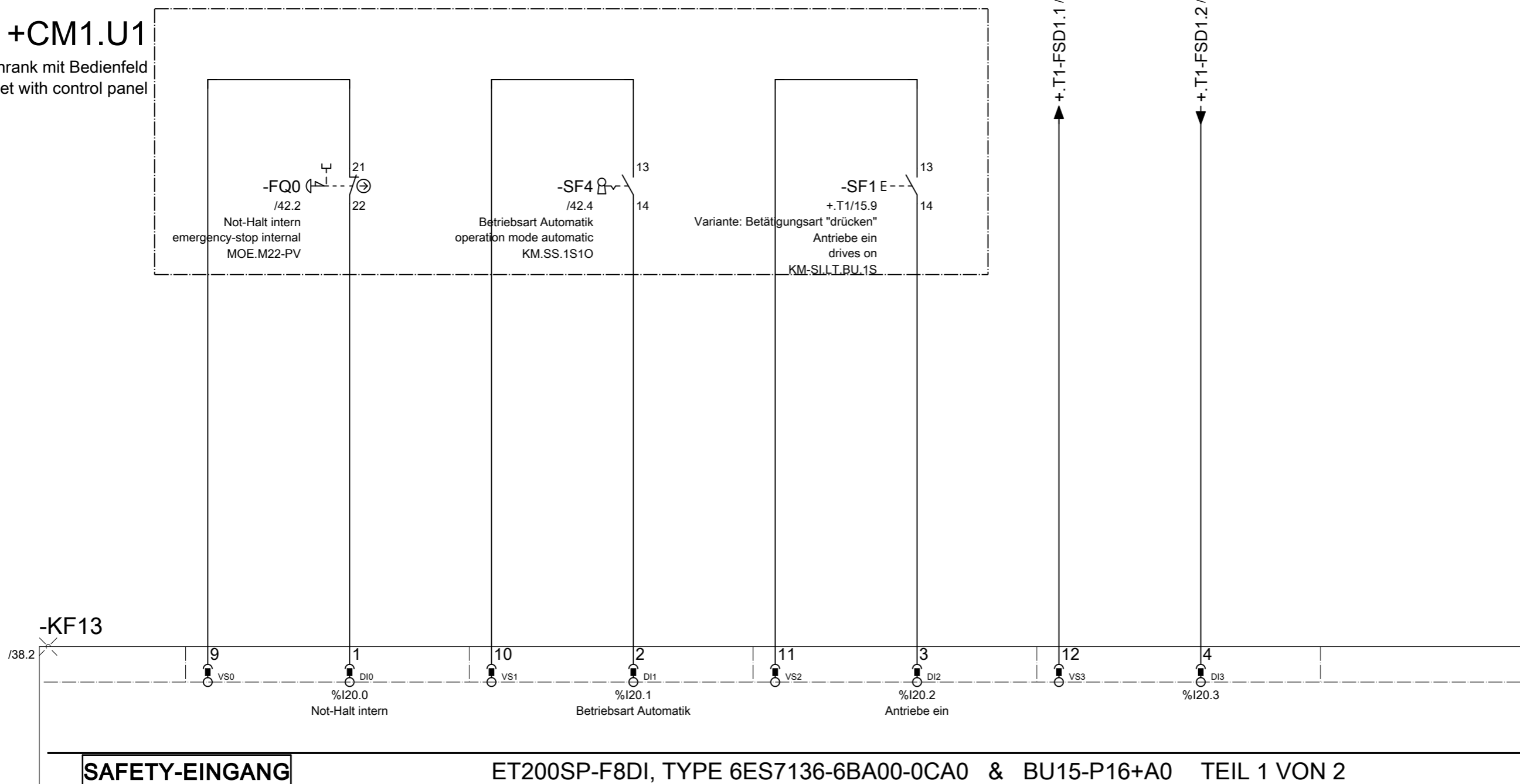
Safety-Eingangsbyte 10 Safety-Inputbyte 10

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 40 von 124 |

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+CM1.U1

Schaltschrank mit Bedienfeld
electric cabinet with control panel



SAFETY-EINGANG

ET200SP-F8DI, TYPE 6ES7136-6BA00-0CA0 & BU15-P16+A0 TEIL 1 VON 2

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

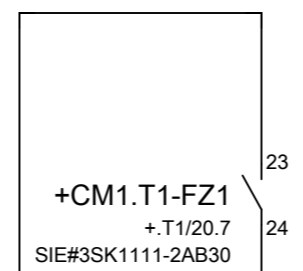
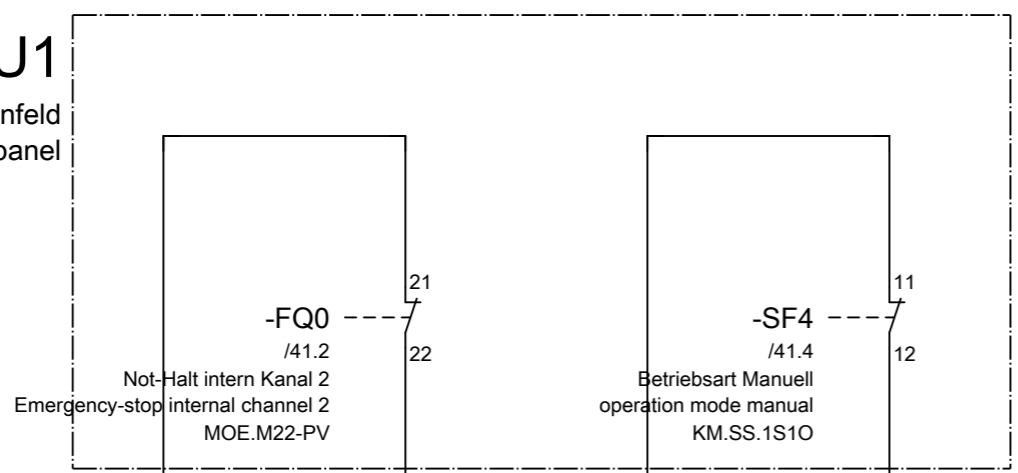
FESTO Safety-Eingangsbyte 20 Safety-Inputbyte 20

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 41 von 124 |

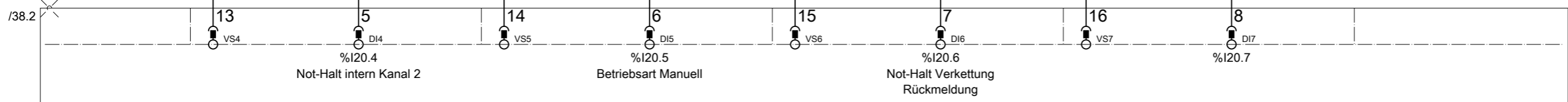
Diese Zeichnung ist Eigentum der Festo Didactic SE. This Drawing is copyright by Festo Didactic SE

+CM1.U1

Schaltschrank mit Bedienfeld
electric cabinet with control panel



-KF13



↑ +.T1-FSD2.3 / +.T1/26.8

↓ +.T1-FSD3.4 / +.T1/26.8

SAFETY-EINGANG

ET200SP-F8DI, TYPE 6ES7136-6BA00-0CA0 & BU15-P16+A0 TEIL 2 VON 2

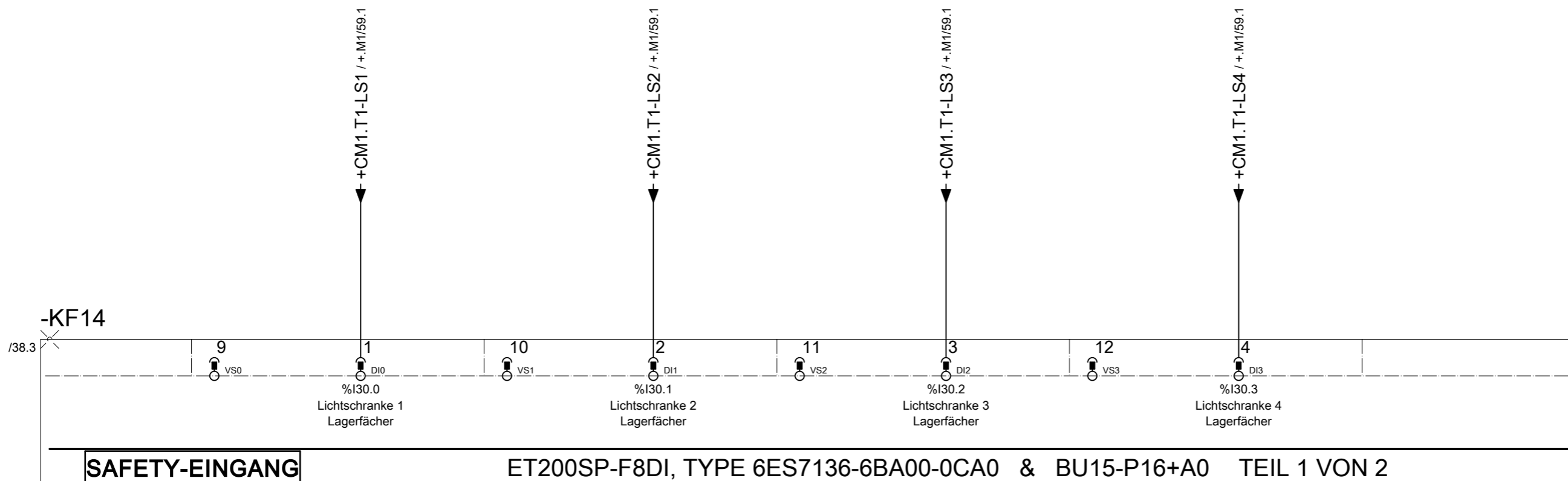
Not-Halt Verkettung
Rückmeldung
emerg.-stop coupling
feedback

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Safety-Eingangsbyte 20 Safety-Inputbyte 20

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 42 von 124 |



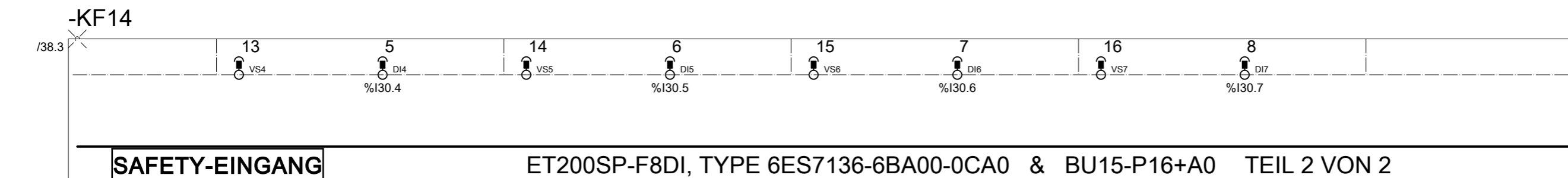
Lichtschranke 1
Lagerfächer
light barrier 1
shelves

Lichtschranke 2
Lagerfächer
light barrier 2
shelves

Lichtschranke 3
Lagerfächer
light barrier 3
shelves

Lichtschranke 4
Lagerfächer
light barrier 4
shelves

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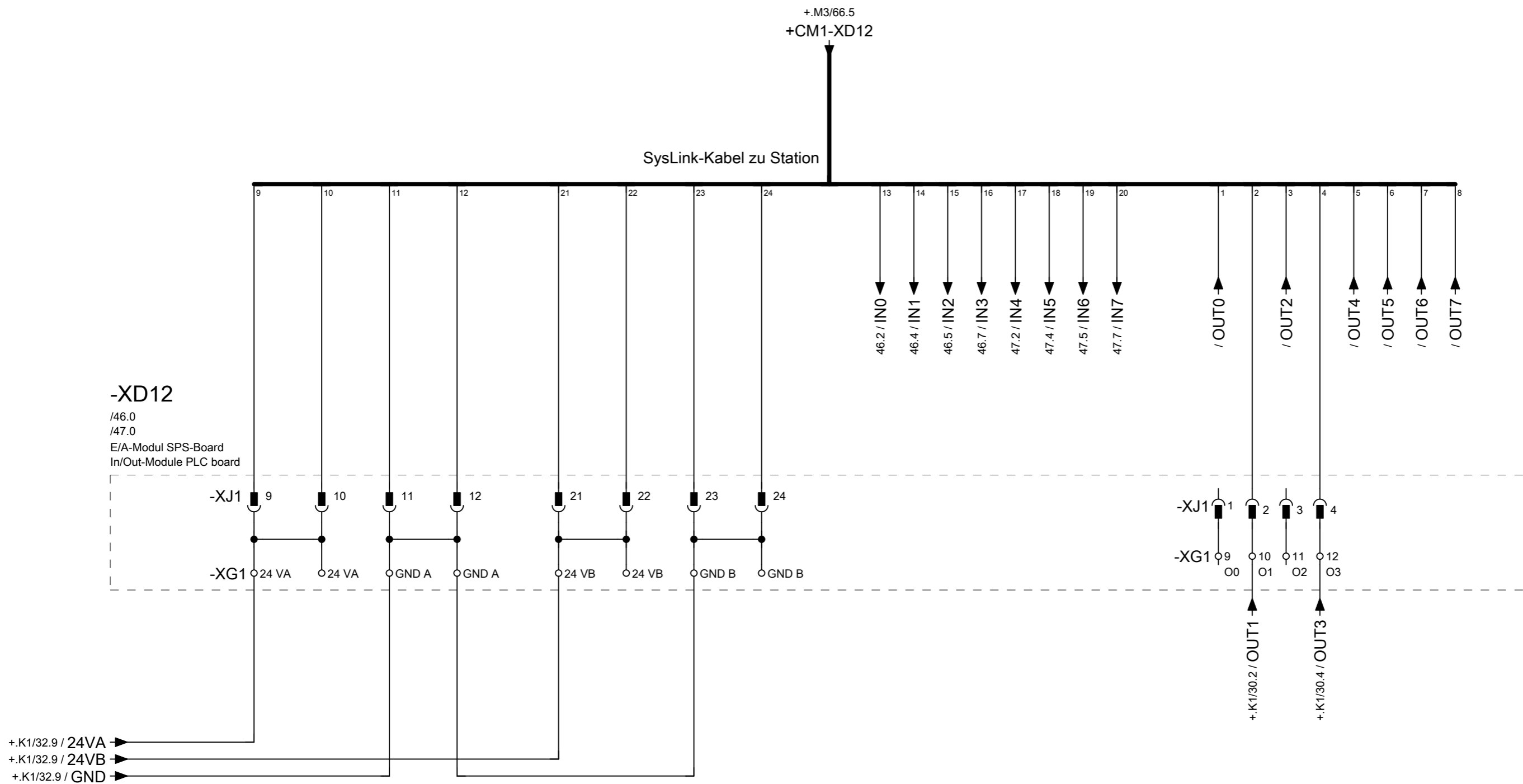
| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Safety-Eingangsbyte 30 Safety-Inputbyte 30

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 44 von 124 |

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| | | |
|--------|-------------|--------------------|
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| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

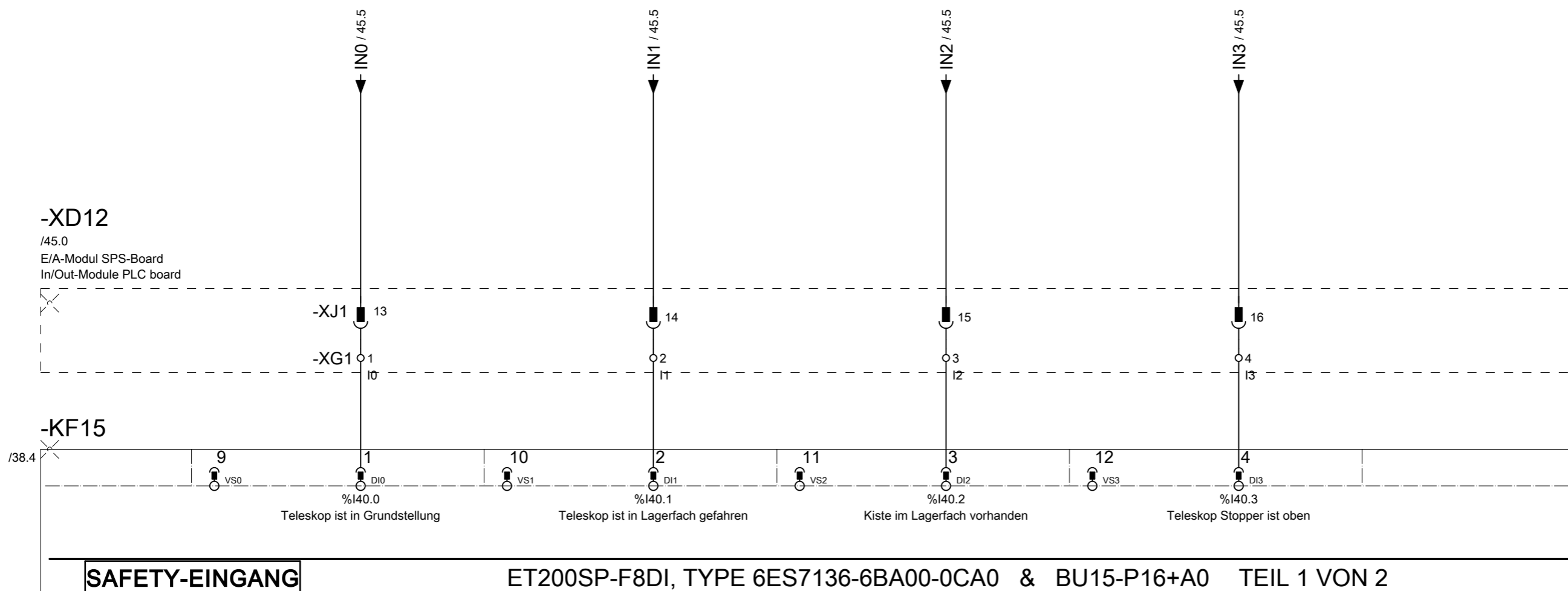


Safety-SysLink Teleskop Safety-SysLink Telescope

| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|----------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 45 |
| + CM1.K2 | Hauptmontageplatte Safety | von 124 |

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|--------|-------------|--------------------|
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| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

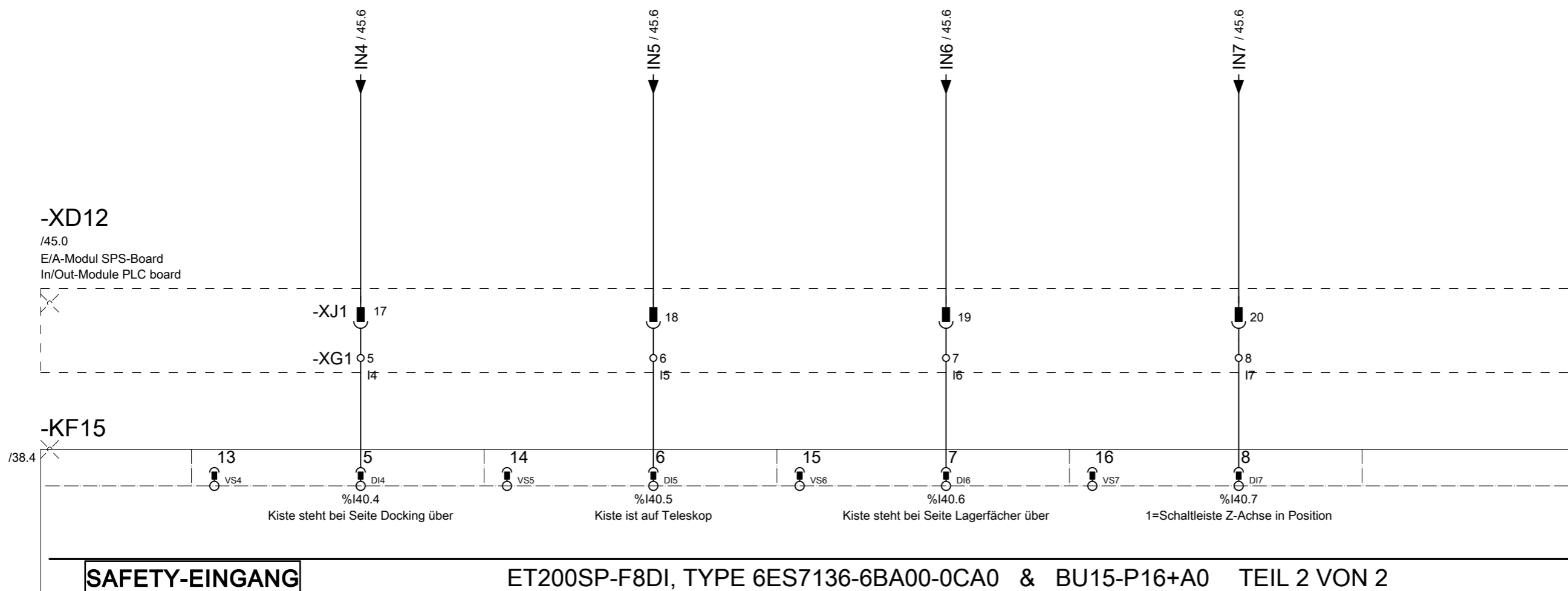


Safety-Eingangsbyte 40 Safety-Inputbyte 40

| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|----------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 46 |
| + CM1.K2 | Hauptmontageplatte Safety | von 124 |

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| | | |
|--------|-------------|--------------------|
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| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



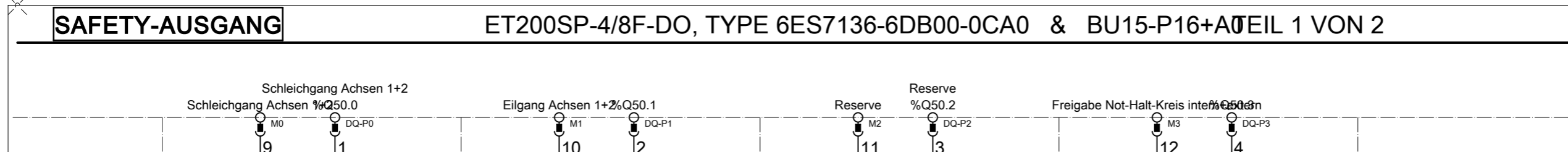
Safety-Eingangsbyte 40 Safety-Inputbyte 40

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 47 von 124 |

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-KF16

/38,4



51.3 / -KF6_Q50.0_M0

51.2 / -KF6_Q50.0_P0

53.3 / -KF6_Q50.1_M1

53.2 / -KF6_Q50.1_P1

55.3 / -KF6_Q50.2_M2

55.2 / -KF6_Q50.2_P2

57.3 / -KF6_Q50.3_M3

57.2 / -KF6_Q50.3_P3

Schleichgang Achsen 1+2
slow speed axis 1+2

Eilgang Achsen 1+2
fast speed axis 1+2

Reserve
Spare

Freigabe Not-Halt-Kreis intern+extern
enable Emergency-stop-circuit internal+external

-KF16

/38,4

SAFETY-AUSGANG

ET200SP-4/8F-DO, TYPE 6ES7136-6DB00-0CA0 & BU15-P16+A0 TEIL 2 VON 2



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<48

50 >>

| | | |
|--------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE F: | EPL0VZFG7M \\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP2\FB\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk |



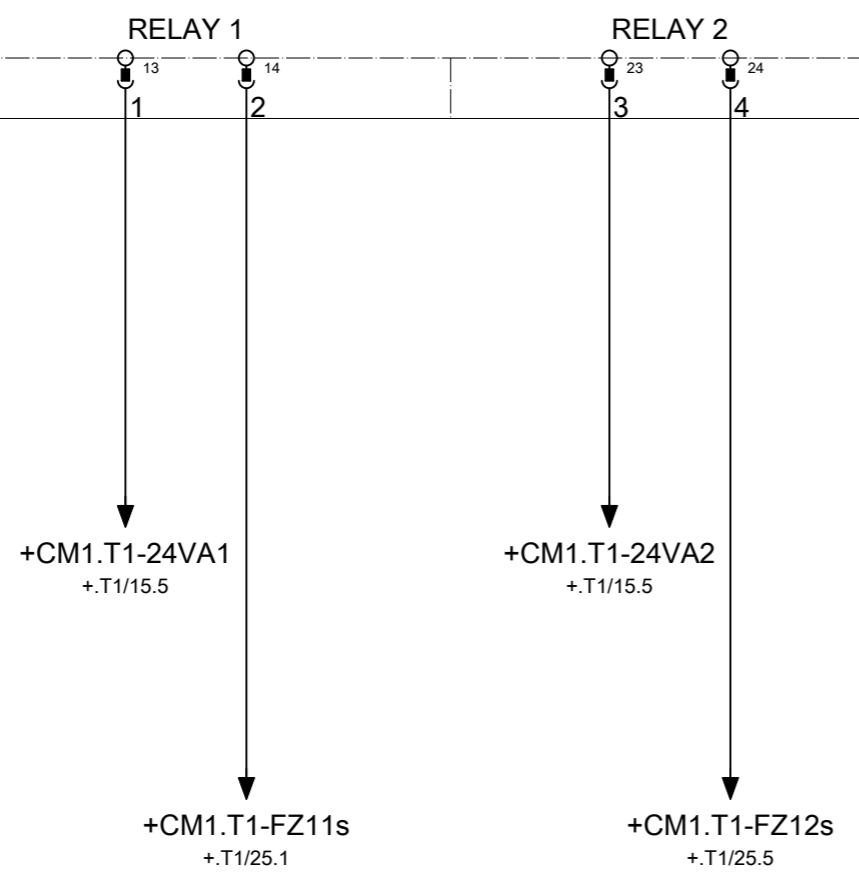
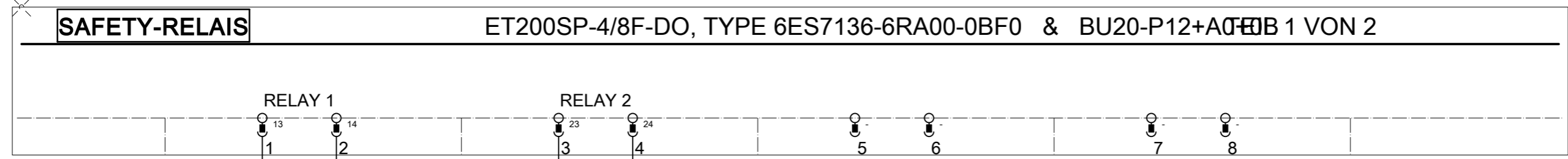
Safety-Ausgangsbyte 50 Safety-Outputbyte 50

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 49 von 124 |

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-KF17

/38,5



| | | |
|--------|-------------|--------------------|
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| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | | |

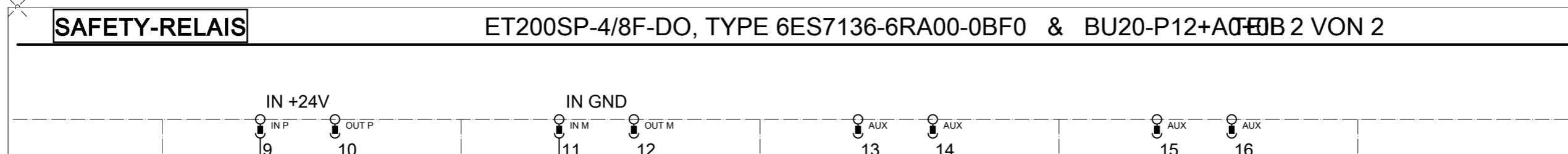
FESTO Safety-Relais Servoachsen Freigabe ###
 FREMDSPRACHE ###

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 50 von 124 |

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-KF17

/38,5



IN +24V

IN GND

IN P

OUT P

IN M

OUT M

AUX

AUX

AUX

AUX

9

10

11

12

13

14

15

16

48.2 / -KF6_Q50.0_P0

48.2 / -KF6_Q50.0_M0

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

FESTO Safety-Relais Servoachsen Freigabe ###
FREMSPRACHE ###

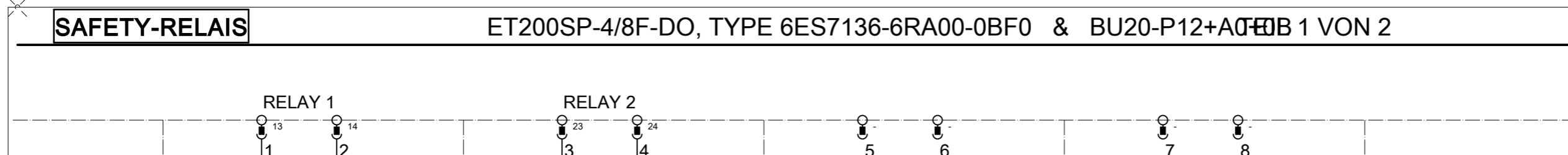
\\Festo.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP2\FB\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 51 von 124 |

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-KF18

/38,6



+CM1.T1-24VA3
+.T1/15.6

+CM1.T1-FZ11f
+.T1/25.2

+CM1.T1-24VA4
+.T1/15.6

+CM1.T1-FZ12f
+.T1/25.7

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | | |



Safety-Relais Servoachsen Eilgang
Safety-Relay Servoaxis fast speed

| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|----------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 52 |
| + CM1.K2 | Hauptmontageplatte Safety | von 124 |

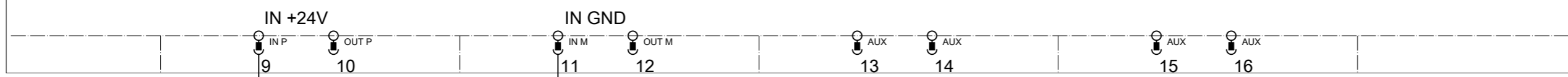
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-KF18

/38,6

SAFETY-RELAIS

ET200SP-4/8F-DO, TYPE 6ES7136-6RA00-0BF0 & BU20-P12+AT50B 2 VON 2



48.4 / -KF6_Q50.1_P1

48.3 / -KF6_Q50.1_M1

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

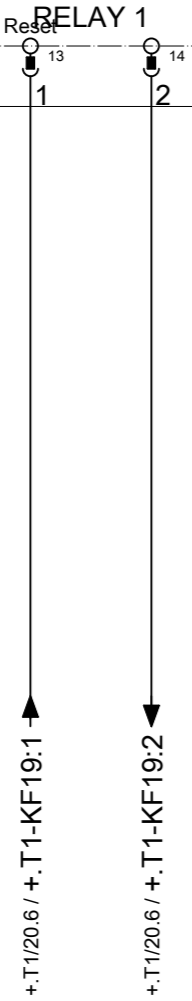
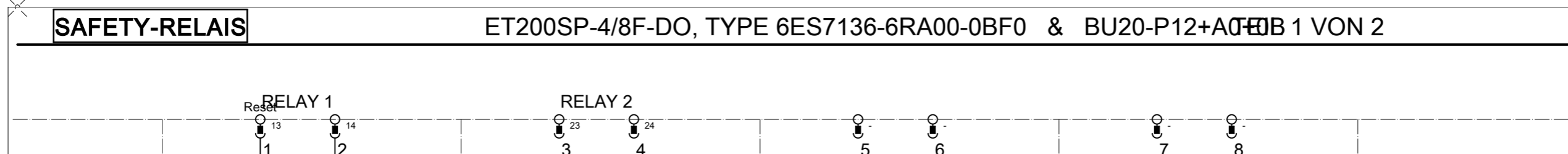
FESTO Safety-Relais Servoachsen Eilgang
Safety-Relay Servoaxis fast speed

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 53 von 124 |

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-KF19

/38,7



Reset
reset

Reset
reset

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



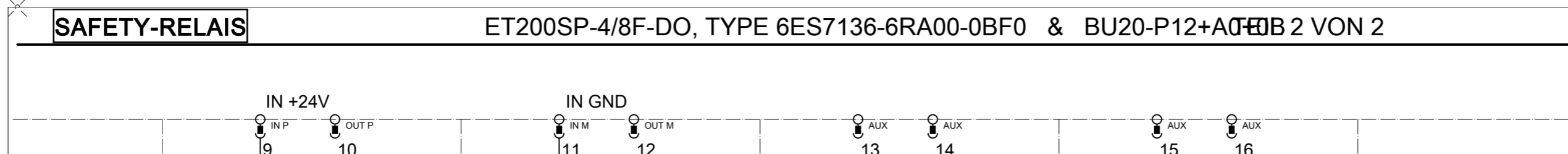
Safety-Relais Reserve Safety-Relay Spare

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 54 von 124 |

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-KF19

38.7



IN +24V

IN GND

IN P

OUT P

IN M

OUT M

AUX

AUX

AUX

AUX

9

10

11

12

13

14

15

16

48.5 / -KF6_Q50.2_P2

48.5 / -KF6_Q50.2_M2

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



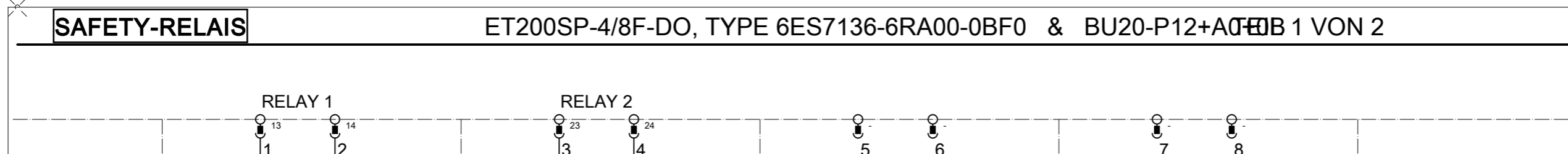
Safety-Relais Reserve Safety-Relay Spare

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 55 von 124 |

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-KF20

/38,8



RELAY 1

RELAY 2

13

14

23

24

5

6

7

8

1

2

3

4

+T1/20.4 / =CM1+CM1.T1-NA_RK1+

+T1/20.4 / =CM1+CM1.T1-NA_KR1-

+T1/20.5 / =CM1+CM1.T1-NA_RK2+

+T1/20.5 / =CM1+CM1.T1-NA_RK2-

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Safety-Relais Not-Halt intern + extern
Safety-Relay emergency-stop

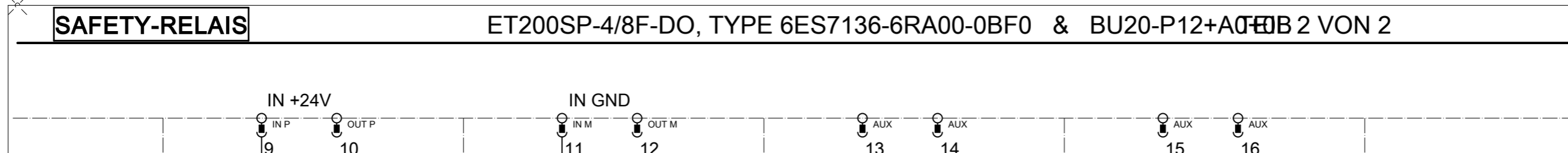
| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|----------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 56 |
| + CM1.K2 | Hauptmontageplatte Safety | von 124 |

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-KF20

/38,8



48.7 / -KF6_Q50.3_P3

48.6 / -KF6_Q50.3_M3

<56

+ .M1/58 >>

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



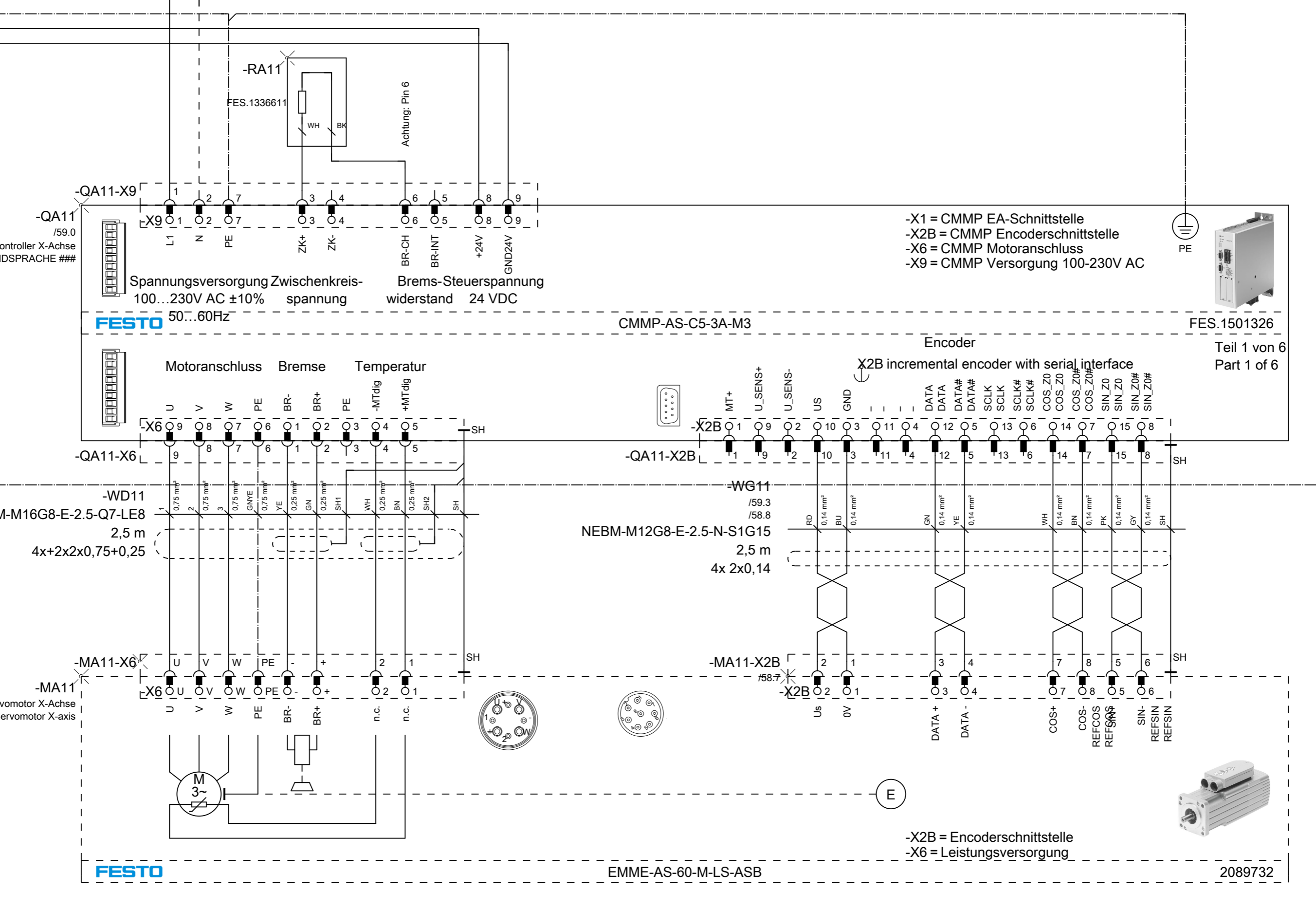
Safety-Relais Not-Halt intern + extern
 Safety-Relay emergency-stop

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.K2 | Hauptmontageplatte Safety |
| | | | Seite 57 von 124 |

Diese Zeichnung ist Eigentum der Festo Didactic SE

+CM1.T1
 Montageplatte allgemein
 mounting panel general
 +T1/13.2/ QA11_L1
 +T1/13.5/ QA11_N
 +T1/13.8/ QA11_PE
 +T1/15.2/ QA11_24V
 +T1/15.9/ QA11_0V

Motor: 2089732 EMME-AS-60-M-LS-ASB
Getriebe: 2297687 EMGA-60-P-G5-EAS-60 (i=5:1)
X-Achse: 534392 DGE-40-987-ZR-RF-LB-RK-GK (vk=125mm)



CM1.M1
 X-Achse
 X-Axis

<< .K2/57

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

FESTO Motor X-Achse Motor X-axis

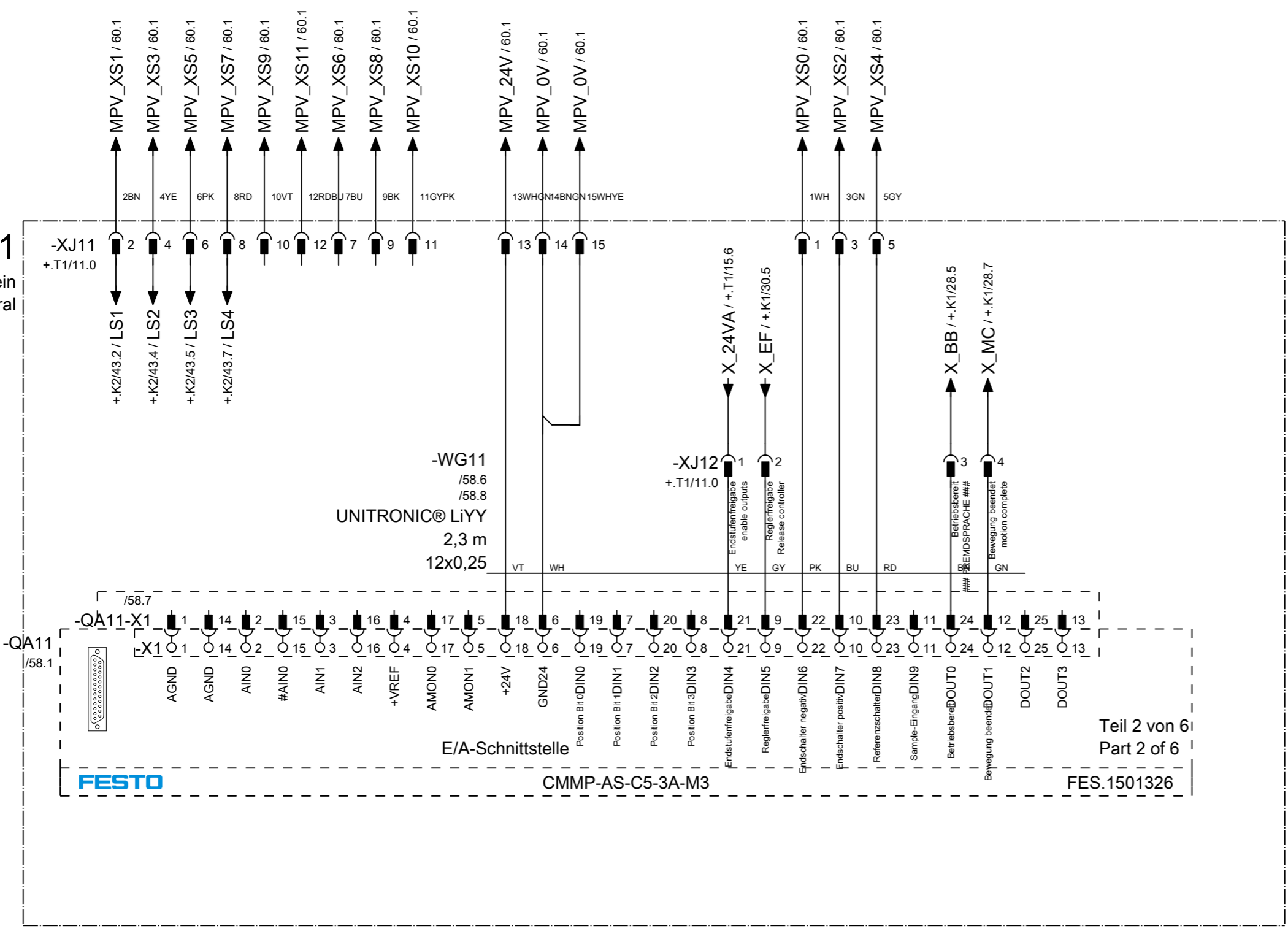
| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M1 | X-Achse |
| | | | Seite 58 von 124 |

59 >>

CM1.T1

Platte allgemein
Panel general

Diese Zeichnung ist Eigentum der Festo Didactic SE



| Standardeingänge | |
|------------------|------------------------|
| DIN0: | Positionselektor Bit 0 |
| DIN1: | Positionselektor Bit 1 |
| DIN2: | Positionselektor Bit 2 |
| DIN3: | Positionselektor Bit 3 |
| DIN4: | Endstufenfreigabe |
| DIN5: | Reglerfreigabe |
| DIN6: | Endschalter negativ |
| DIN7: | Endschalter positiv |
| DIN8: | Referenzschalter |
| DIN9: | Sample-Eingang |

ERFORDERLICH bei Feldbuskarten

- Reglerfreigabe / DIN5
- Endstufenfreigabe / DIN4
- Endschalter0 / DIN6
- Endschalter1 / DIN7
- Betriebsbereitschaft / DOUT0
- Default - Motion Complete / DOUT1 (+ DIN8 für Referenzschalter)

Ausgänge: Pin6=0V, Pin18=24V

UNITRONIC® LiYY
2,3 m
12x0,25

E/A-Schnittstelle

CMMP-AS-C5-3A-M3

Teil 2 von 6
Part 2 of 6

FES.1501326

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

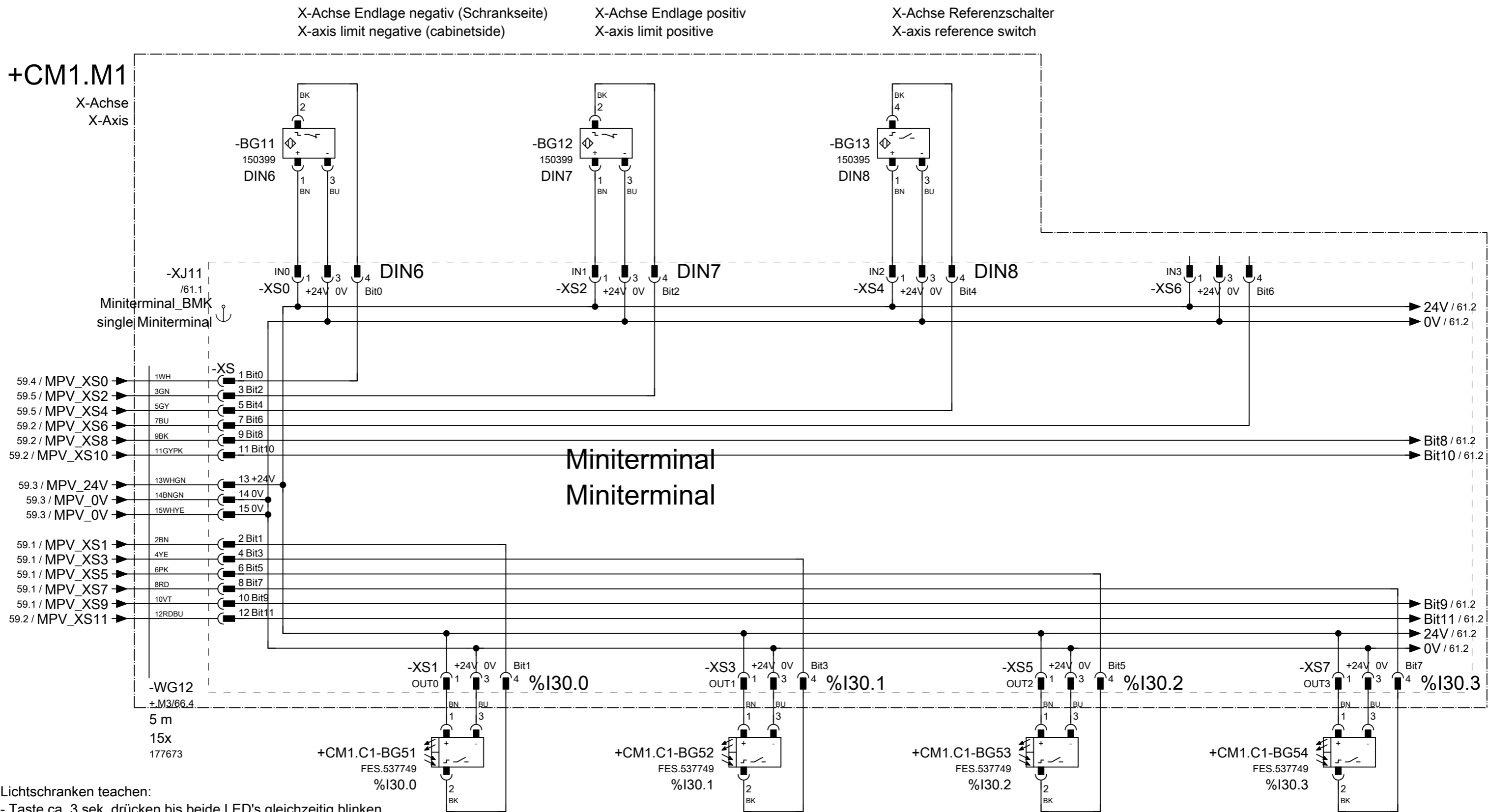


X-Achse EA + Busmodul X-Axis IO + businterface

| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|----------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 59 |
| + CM1.M1 | X-Achse | von 124 |

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Lichtschranken teachen:

- Taste ca. 3 sek. drücken bis beide LED's gleichzeitig blinken
- Kiste in den Lichtstrahl bringen
- Taste ca. 1 sek. drücken

Lichtschranken sind ab Werk als Öffner eingestellt.

Umstellung auf Schließer:

- 13 sek. auf Taste drücken, bis LED's abwechselnd blinken.
- Taste nochmals kurz antippen
- Taste für 10 sek. nicht mehr betätigen

Lichtschranke 1 Lagerfächer frei
light barrier 1 shelves free

Lichtschranke 2 Lagerfächer frei
light barrier 2 shelves free

Lichtschranke 3 Lagerfächer frei
light barrier 3 shelves free

Lichtschranke 4 Lagerfächer frei
light barrier 4 shelves free

| | | |
|--------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Reichbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE F: | EPL0VZFG7M festo.net/dfs01/INT/Data/EPLAN/DATA_xx/IDEI/Projects/Didactic/Products/L21 CP2/PLB/aktuell/Kistenlager/KistenlagerV7 2022-03-16.elk |



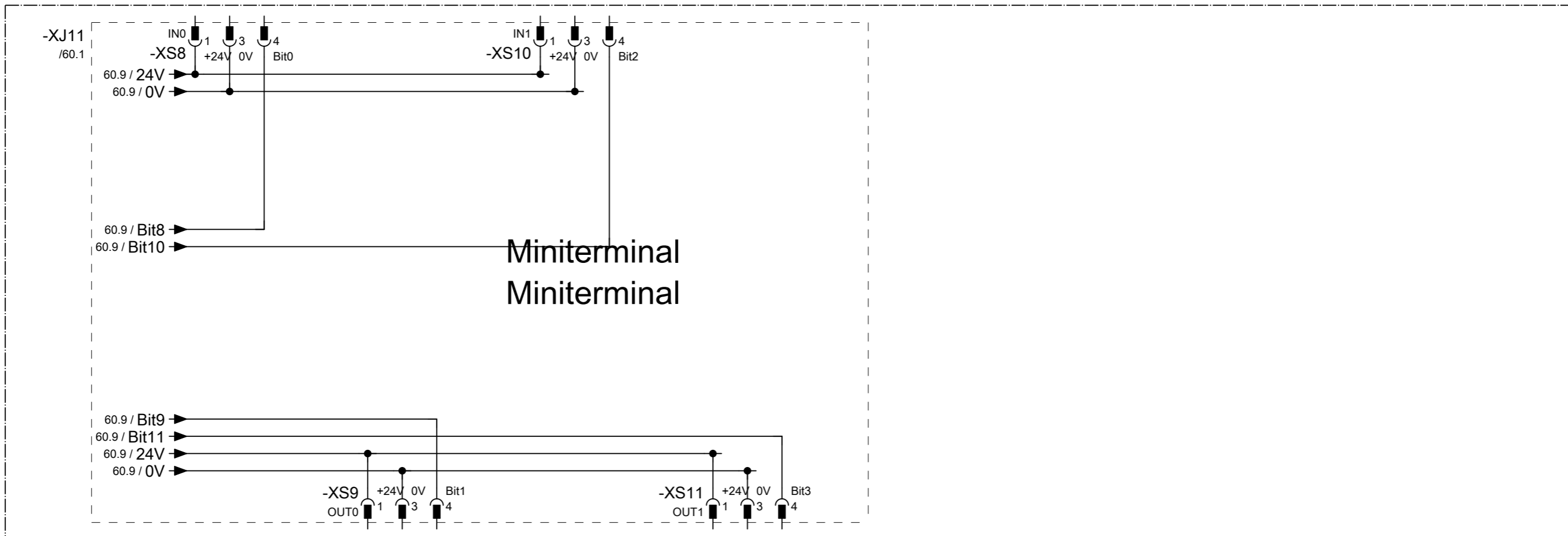
X-Achse Endlagenschalter X-Axis limit switch

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M1 | X-Achse |
| | | | Seite 60 von 124 |

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+CM1.M1

X-Achse
X-Axis



<60

+ .M2/62 >>

| | | |
|--------|-------------|--------------------|
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| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

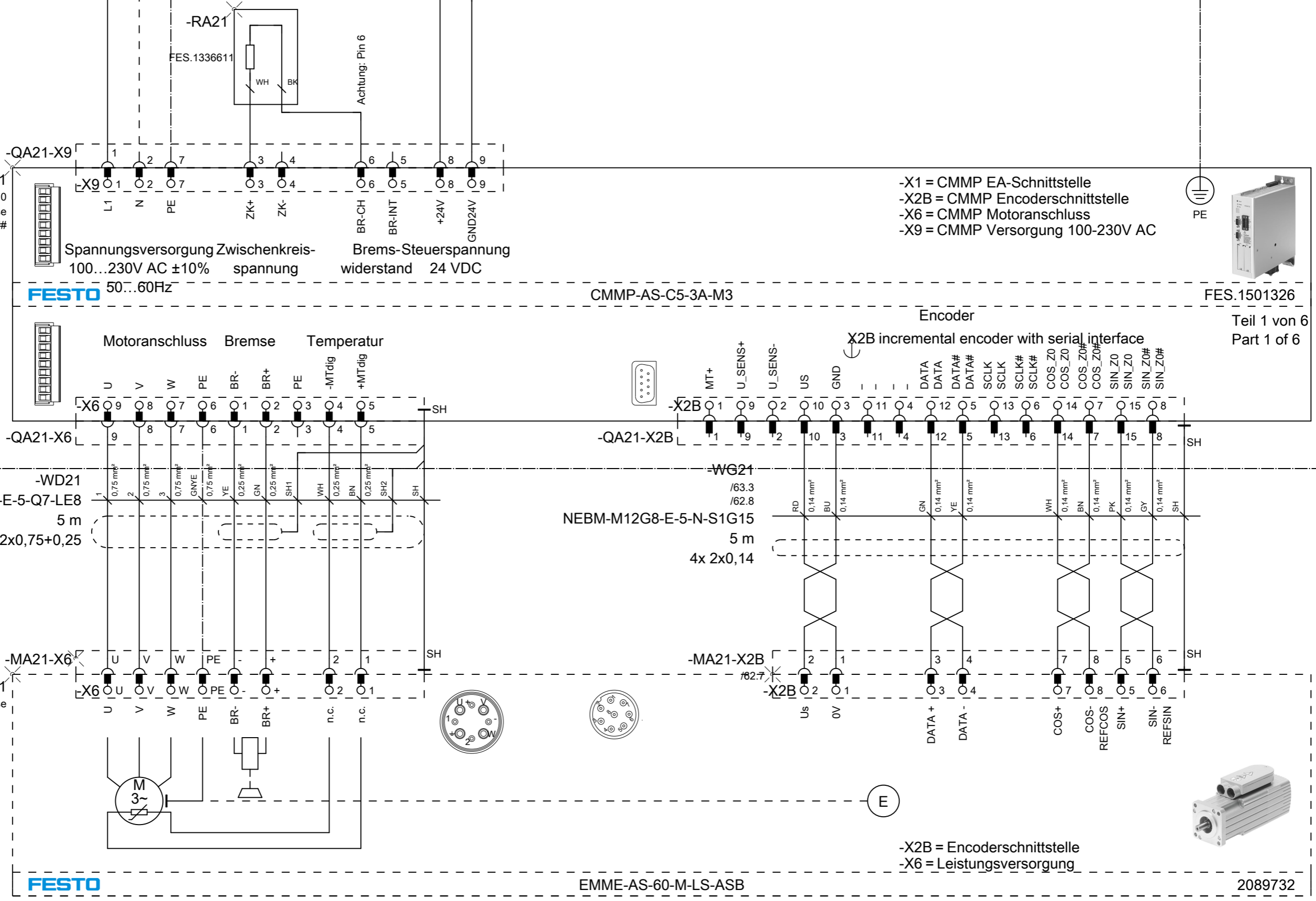
FESTO X-Achse Reserve ### FREMDSPRACHE ###
\\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\IDidactic\Products\21 CP21914\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M1 | X-Achse |
| | | | Seite 61 von 124 |

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+CM1.T1
 Montageplatte allgemein
 mounting panel general
 +T1/13.2/ QA21_L1
 +T1/13.5/ QA21_N
 +T1/13.8/ QA21_PE
 +T1/15.2/ QA21_24V
 +T1/15.9/ QA21_0V

Motor: 2089732 EMME-AS-60-M-LS-ASB
Getriebe: 2297687 EMGA-60-P-G5-EAS-60 (i=5:1)
Z-Achse: 534392 DGE-40-947-ZR-RF-LB-RK-GK (vk=125mm)



CM1.M2
 Z-Achse
 Z-Axis

<< .M1/61

| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
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| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Motor Z-Achse Motor Z-axis

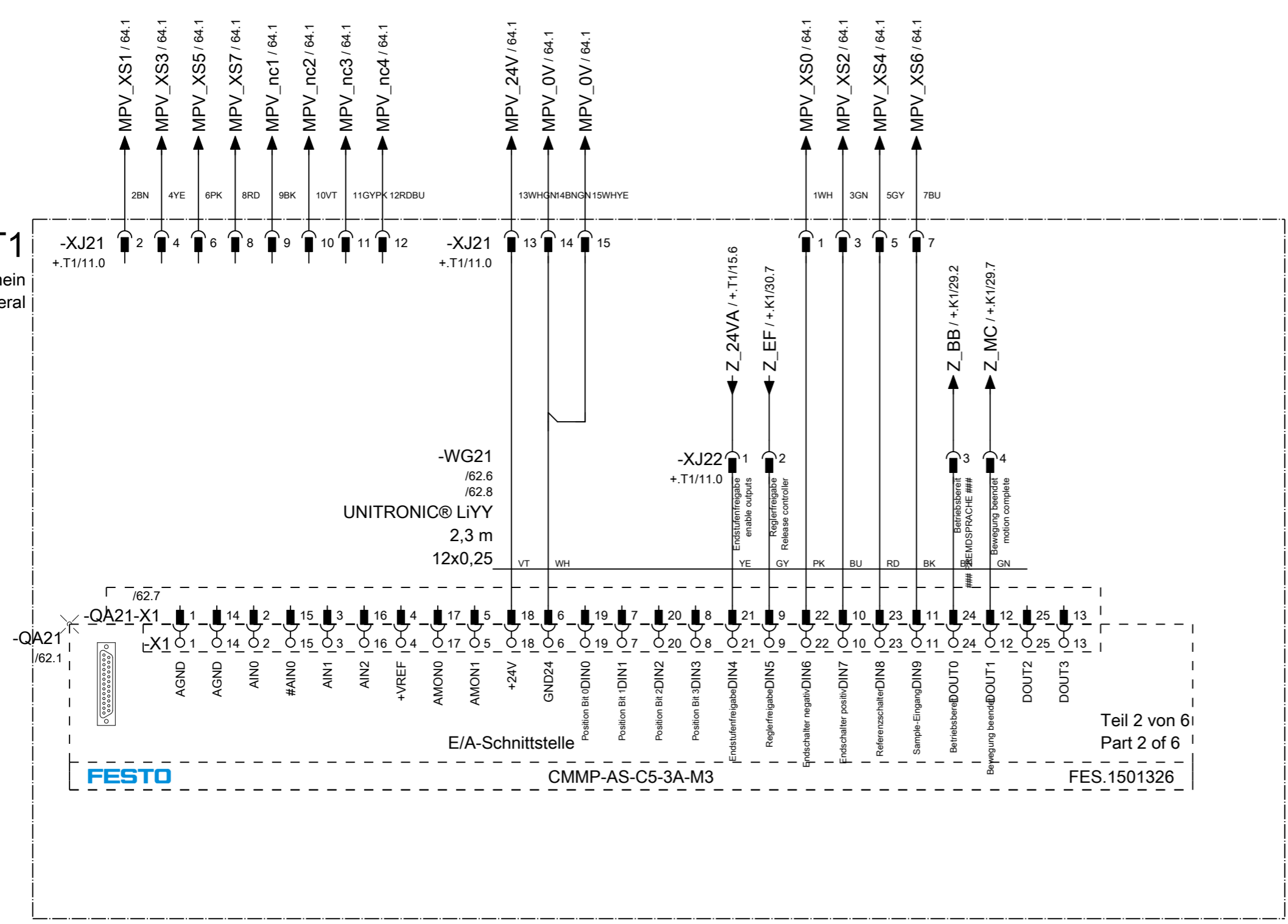
| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M2 | Z-Achse |
| | | | Seite 62 von 124 |

63 >>

CM1.T1

Platte allgemein
Panel general

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| Standardeingänge | |
|------------------|------------------------|
| DIN0: | Positionselektor Bit 0 |
| DIN1: | Positionselektor Bit 1 |
| DIN2: | Positionselektor Bit 2 |
| DIN3: | Positionselektor Bit 3 |
| DIN4: | Endstufenfreigabe |
| DIN5: | Reglerfreigabe |
| DIN6: | Endschalter negativ |
| DIN7: | Endschalter positiv |
| DIN8: | Referenzschalter |
| DIN9: | Sample-Eingang |

ERFORDERLICH bei Feldbuskarten

- Reglerfreigabe / DIN5
- Endstufenfreigabe / DIN4
- Endschalter0 / DIN6
- Endschalter1 / DIN7
- Betriebsbereitschaft / DOUT0
- Default - Motion Complete / DOUT1 (+ DIN8 für Referenzschalter)

Ausgänge: Pin6=0V, Pin18=24V

UNITRONIC® LiYY
2,3 m
12x0,25

E/A-Schnittstelle

CMMP-AS-C5-3A-M3

Teil 2 von 6
Part 2 of 6

FES.1501326

| | | |
|--------|-------------|--------------------|
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| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

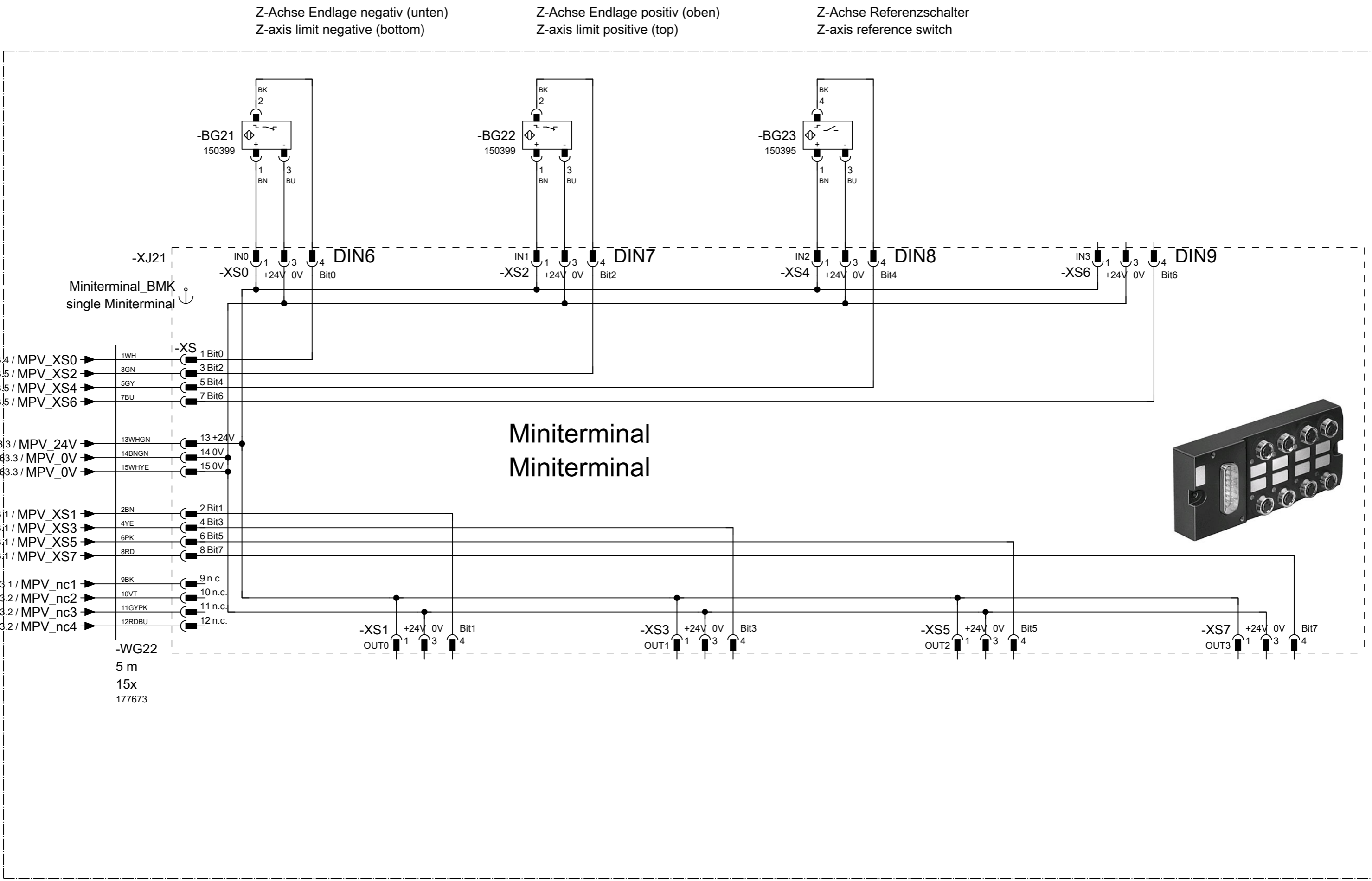


Z-Achse EA + Busmodul Z-Axis IO + businterface

| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|----------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 63 |
| + CM1.M2 | Z-Achse | von 124 |

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| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



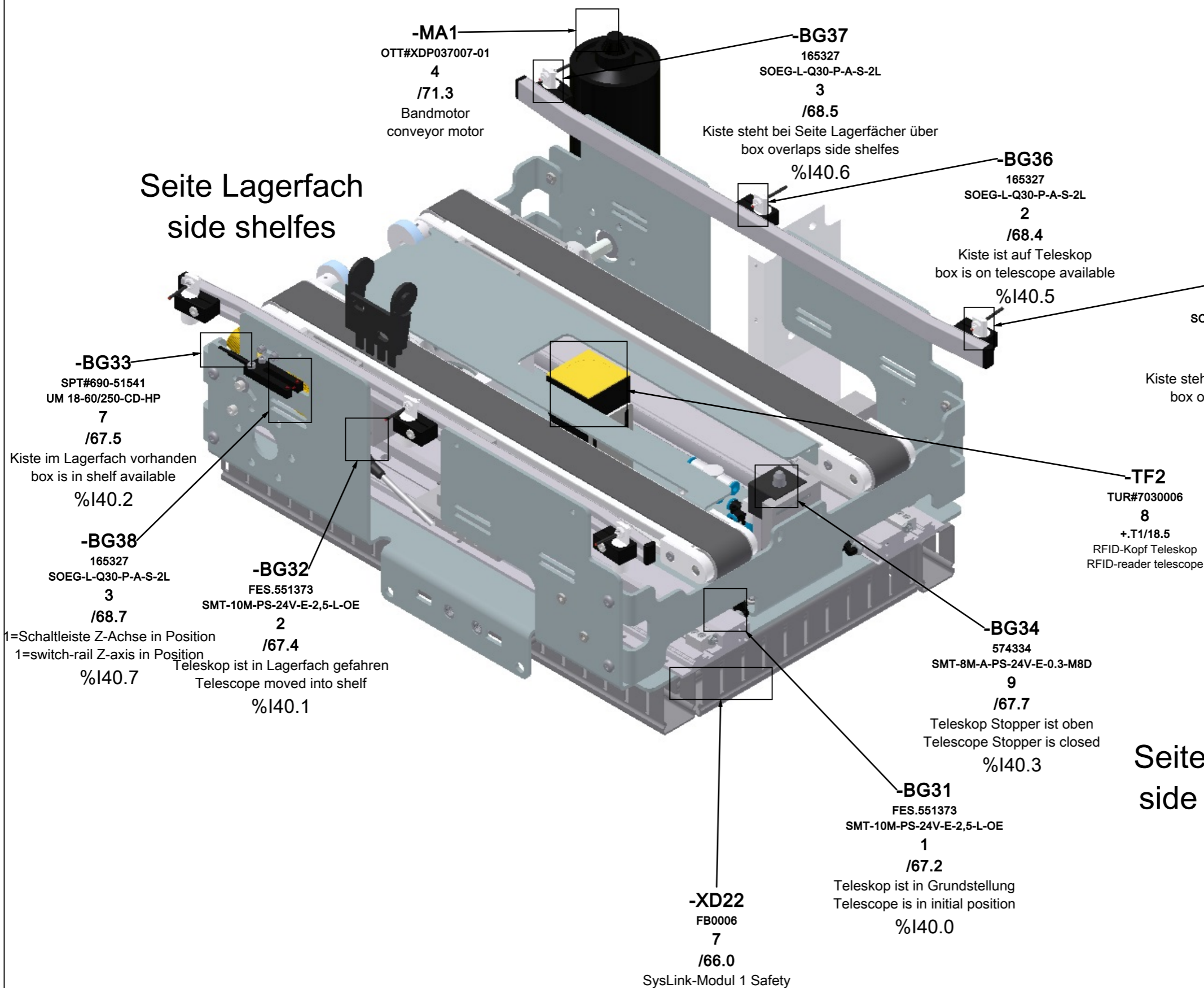
Z-Achse Endlagenschalter Z-Axis limit switch

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M2 | Z-Achse |
| | | | Seite 64 von 124 |

| Pos. | BMK | B x H | Bezeichnung | Graviertext |
|------|------|-----------|------------------------|-------------|
| 1 | BG35 | 10,00 mm | Lichtleitergerät mit S | |
| 1 | BG31 | 0,00 mm x | Näherungsschalter | |
| 2 | BG36 | 10,00 mm | Lichtleitergerät mit S | |
| 2 | BG32 | 0,00 mm x | Näherungsschalter | |
| 3 | BG37 | 10,00 mm | Lichtleitergerät mit S | |
| 3 | BG38 | 10,00 mm | Lichtleitergerät mit S | |
| 4 | MA1 | 0,00 mm x | Stirnradmotor | |
| 7 | XD22 | 0,00 mm x | E/A-Terminal neu (m | |
| 7 | BG33 | 0,00 mm x | Ultraschallsensor M | |
| 8 | TF2 | 0,00 mm x | TN-CK40-H11147 L | |
| 9 | BG34 | 0,00 mm x | Näherungsschalter | |

Seite Lagerfach
side shelves

Seite Gehäuseöffnung
side housing aperture



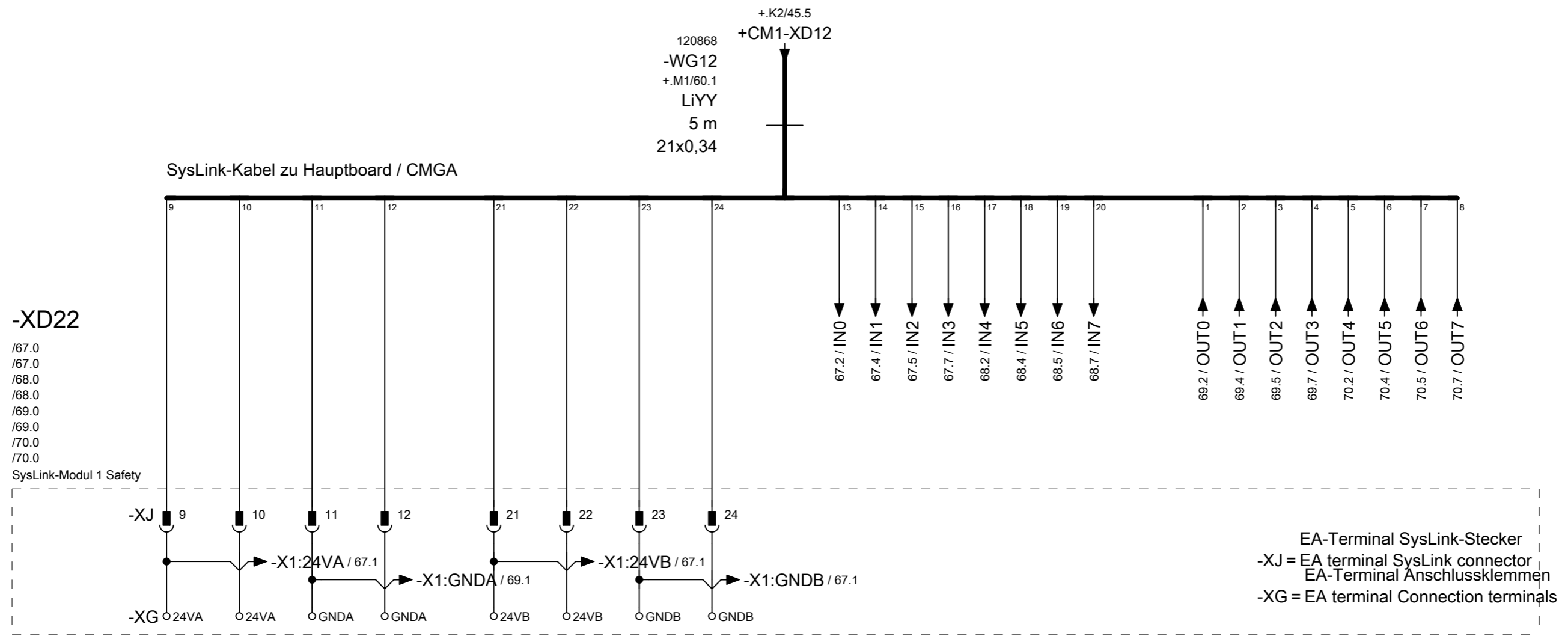
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| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
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| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

FESTO Aufbau Teleskop assembly telescope

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M3 | Teleskop |
| | | | Seite 65 von 124 |

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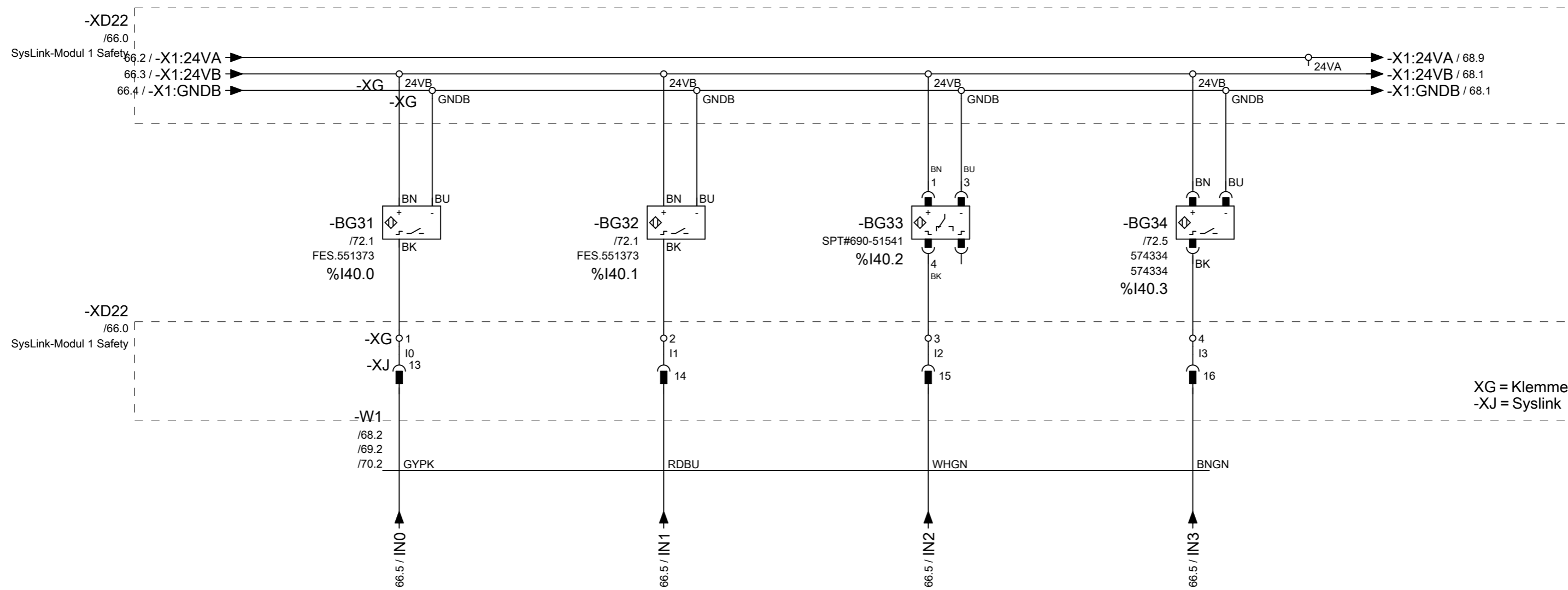
| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
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| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



SysLink-Modul Teleskop SysLink-Module
Telescope

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M3 | Teleskop |
| | | | Seite 66 von 124 |

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XG = Klemmen
-XJ = Syslink

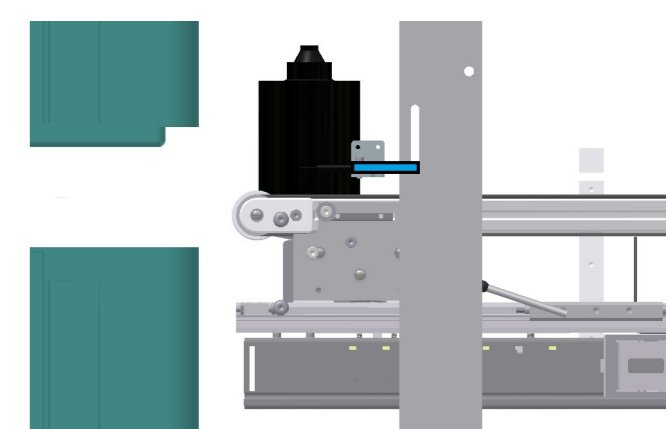
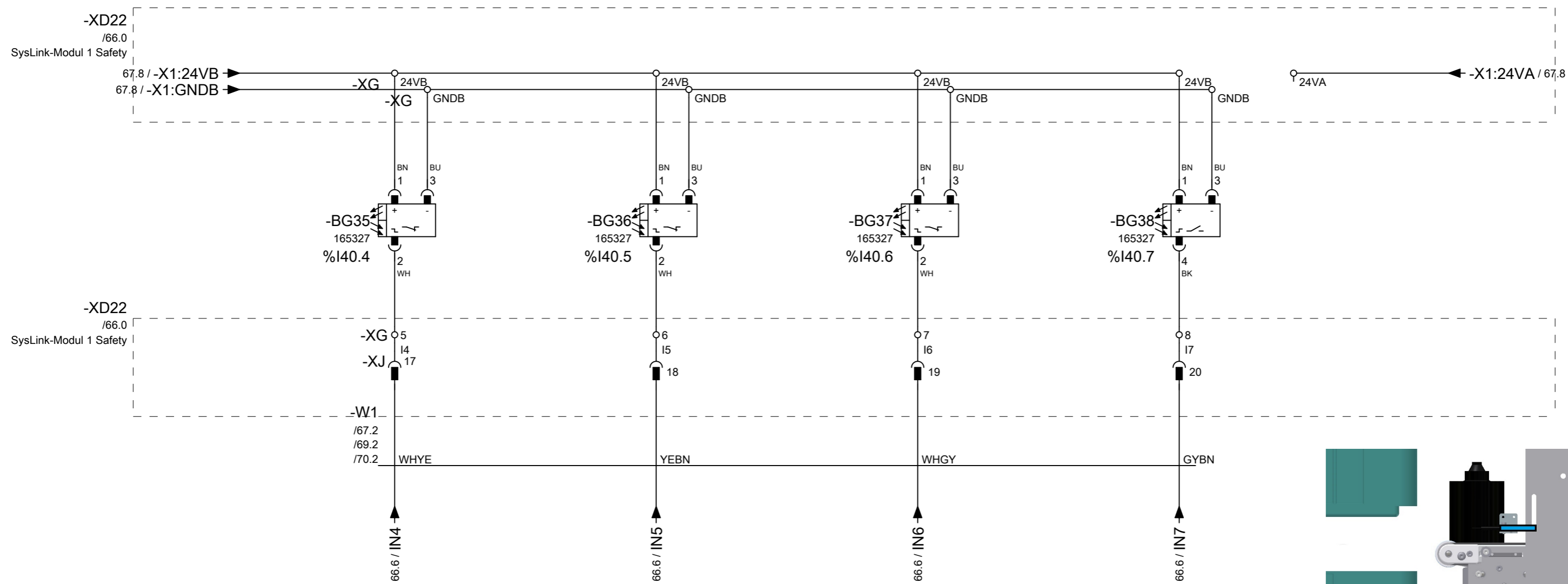
Teleskop ist in Grundstellung
Telescope is in initial position

Teleskop ist in Lagerfach gefahren
Telescope moved into shelf

Kiste im Lagerfach vorhanden
box is in shelf available

Teleskop Stopper ist oben
Telescope Stopper is closed

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Kiste steht bei Seite Docking über
box overlaps side docking

Kiste ist auf Teleskop
box is on telescope available

Kiste steht bei Seite Lagerfächer über
box overlaps side shelves

1=Schaltleiste Z-Achse in Position
1=switch-rail Z-axis in Position

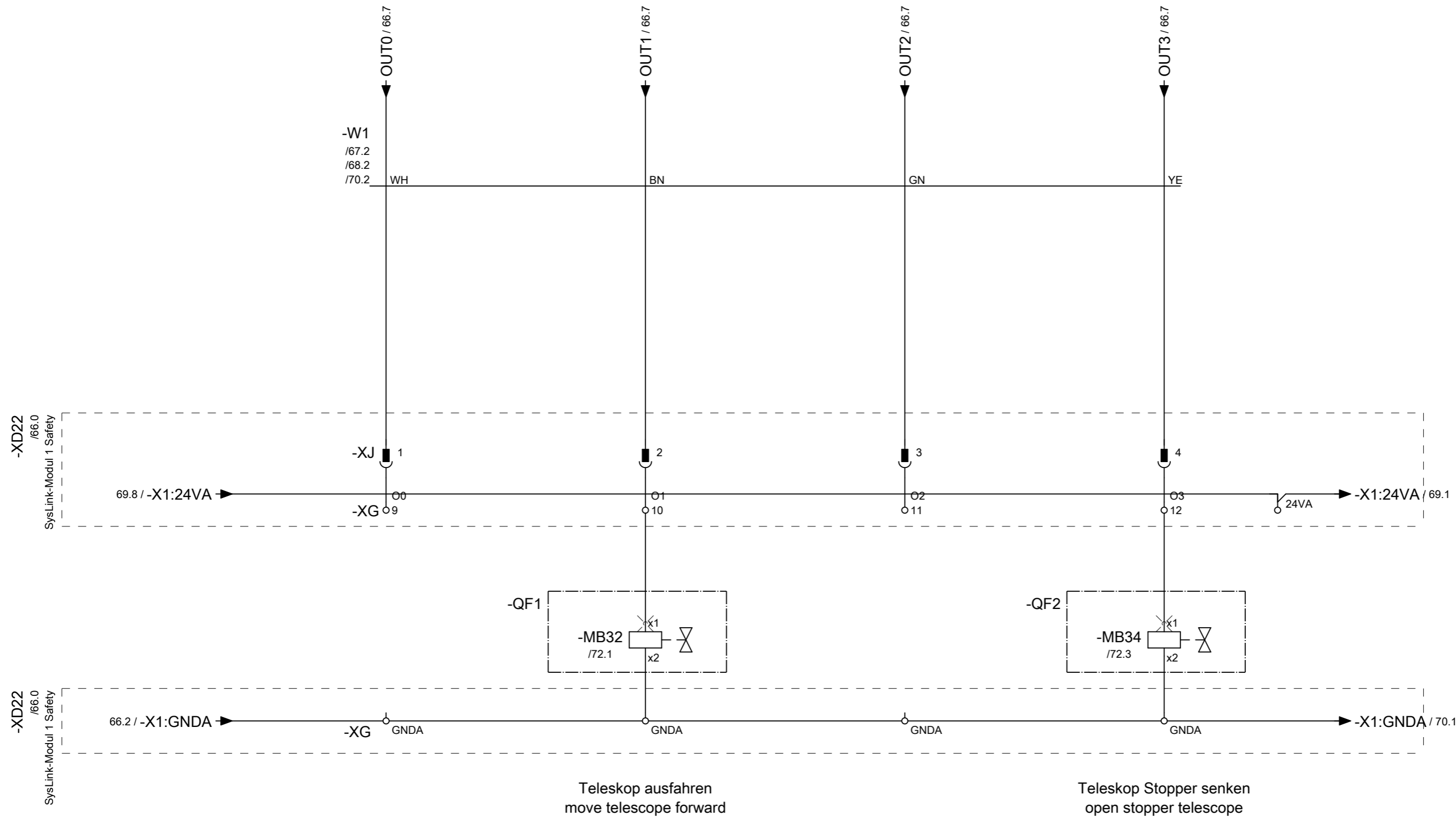
| | | |
|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
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| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Safety-Eingangsbyte 40 Safety-Inputbyte 40

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M3 | Teleskop |
| | | | Seite 68 von 124 |

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| | | |
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| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

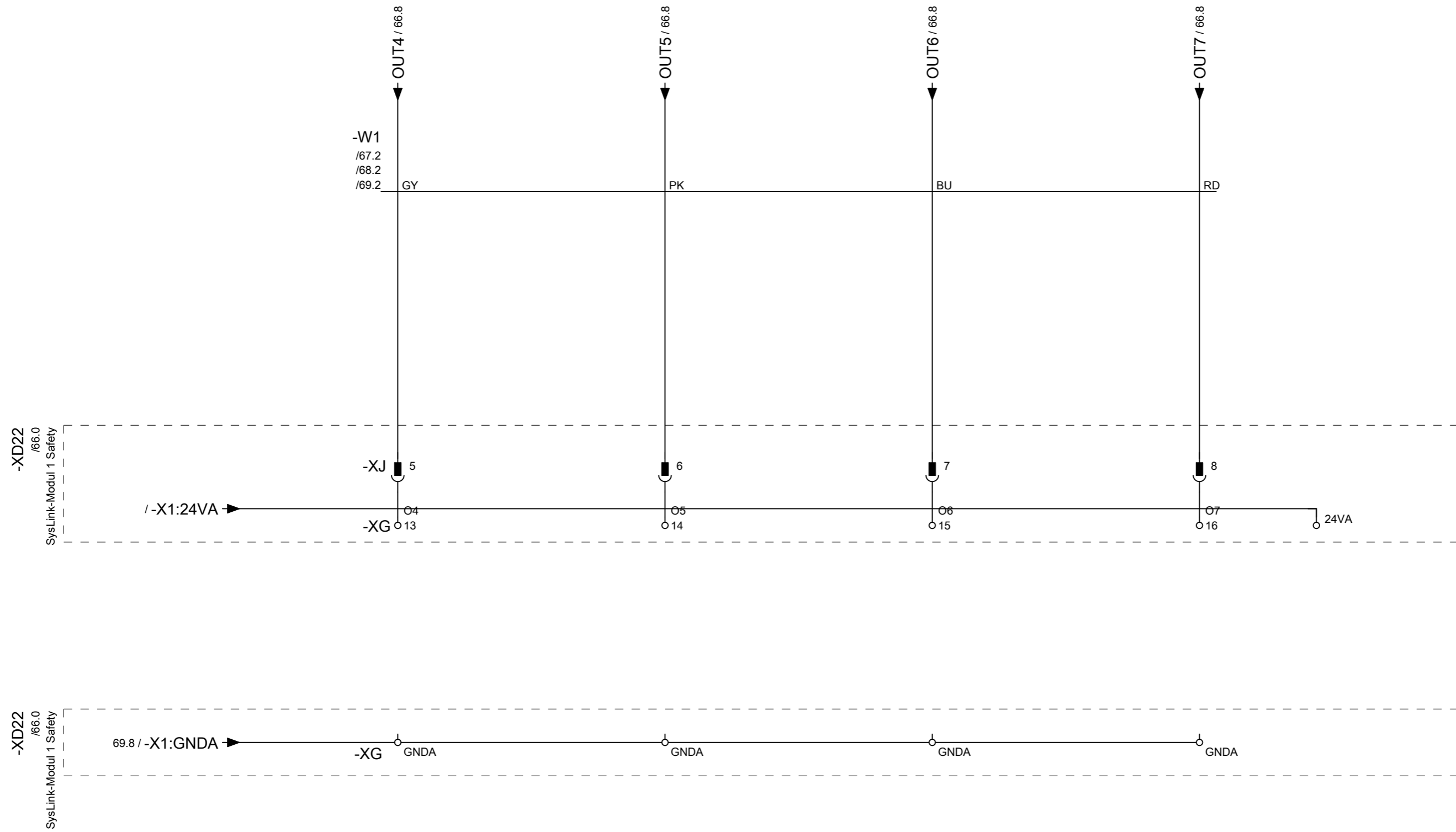


Ausgänge Reserve Outputs Reserve

| | |
|-----------|----|
| S-Nr. | |
| PSP / DPJ | VN |

| | | |
|----------|----------------------------|----------|
| = CM1 | Hochregallager Box -1512SP | Seite 69 |
| + CM1.M3 | Teleskop | von 124 |

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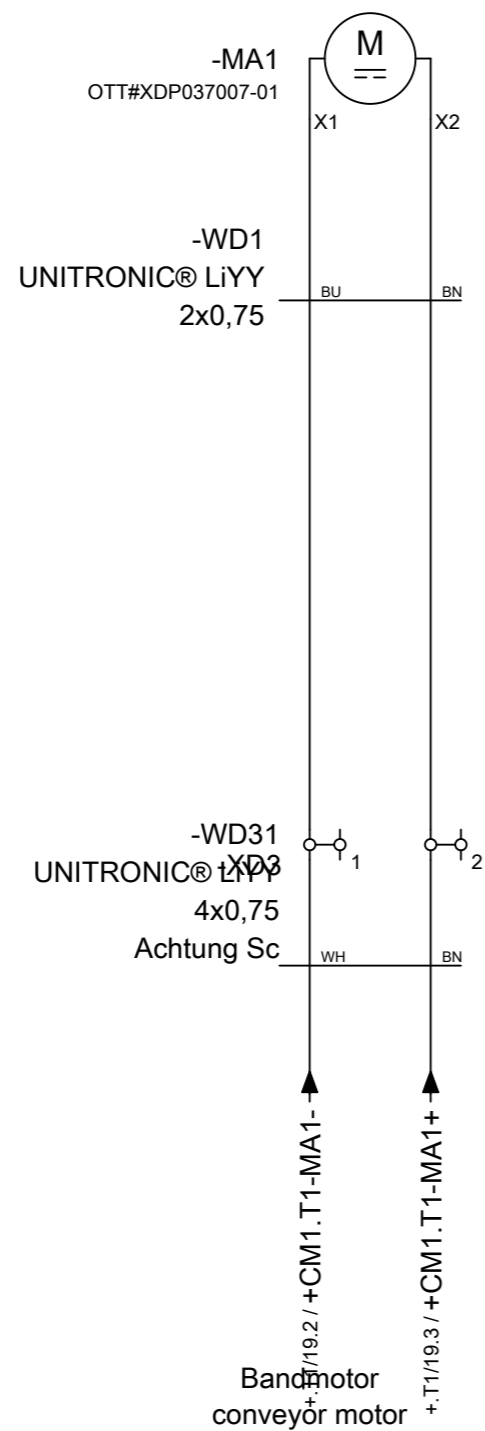
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| Datum | 16.03.2022 | Festo Didactic SE |
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| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Ausgänge Reserve Outputs Reserve

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M3 | Teleskop |
| | | | Seite 70 von 124 |

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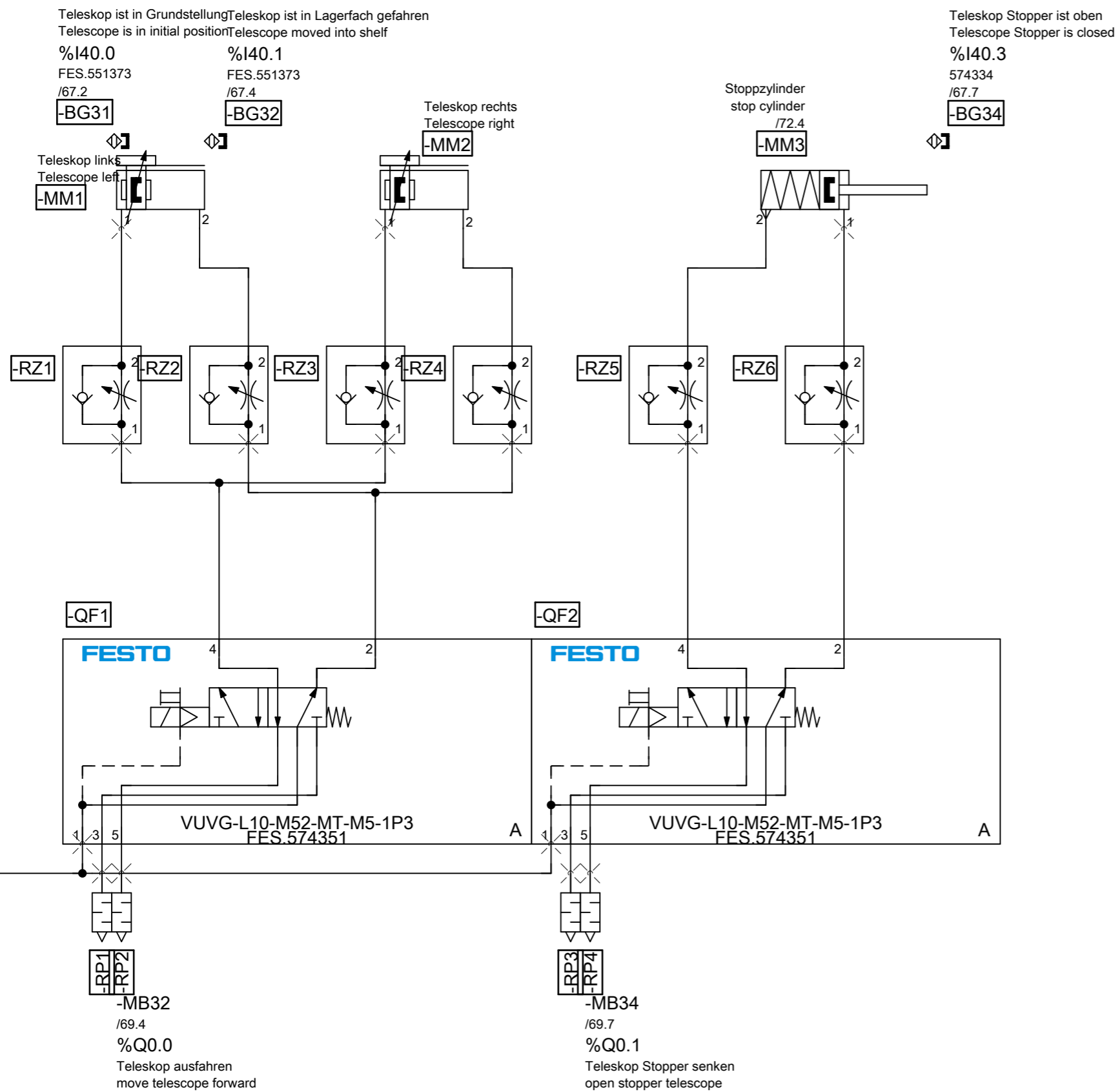
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|--------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE F: | EPL0VZFG7M \\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\DEI\Projects\Didactic\Products\21 CP21914\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk |

FESTO

Bandmotor Teleskop conveyor motor
telescope

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M3 | Teleskop |
| | | | Seite 71 von 124 |

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<71

+ .M4/73 >>

| | | |
|--------|-------------|--------------------|
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| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

FESTO Pneumatikplan pneumatic schematic

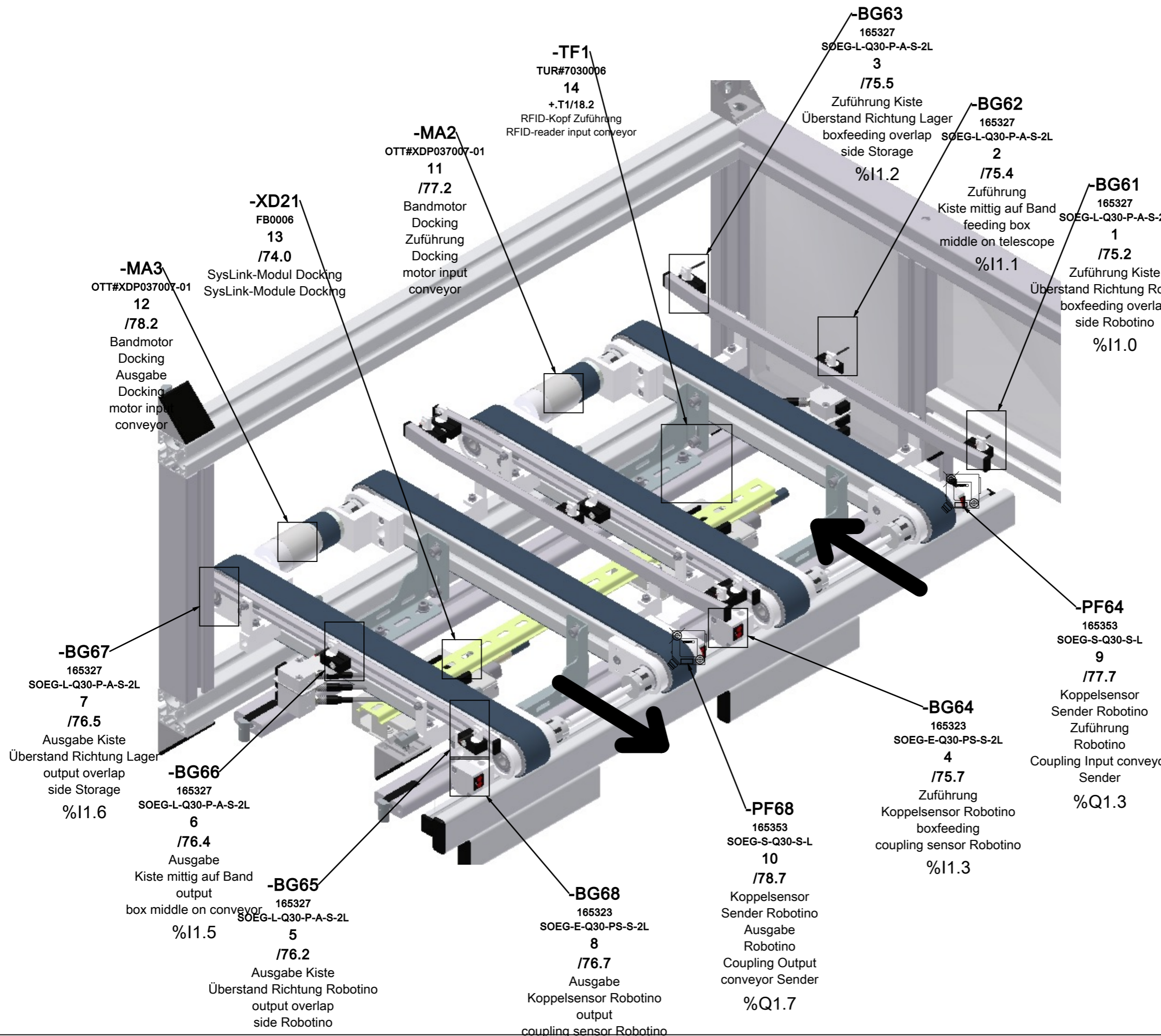
N:\Festo\Net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP2\Festo\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M3 | Teleskop |
| | | | Seite 72 von 124 |

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Schaltschranklegende =CM1+CM1.M4-UR3

| Pos. | BMK | B x H | Bezeichnung | Graviertext |
|------|------|-----------|------------------------|-------------|
| 1 | BG61 | 10,00 mm | Lichtleitergerät mit S | |
| 2 | BG62 | 10,00 mm | Lichtleitergerät mit S | |
| 3 | BG63 | 10,00 mm | Lichtleitergerät mit S | |
| 4 | BG64 | 0,00 mm x | Empfänger | |
| 5 | BG65 | 10,00 mm | Lichtleitergerät mit S | |
| 6 | BG66 | 10,00 mm | Lichtleitergerät mit S | |
| 7 | BG67 | 10,00 mm | Lichtleitergerät mit S | |
| 8 | BG68 | 0,00 mm x | Empfänger | |
| 9 | PF64 | 0,00 mm x | Sender | |
| 10 | PF68 | 0,00 mm x | Sender | |
| 11 | MA2 | 0,00 mm x | Stirnradmotor | |
| 12 | MA3 | 0,00 mm x | Stirnradmotor | |
| 13 | XD21 | 0,00 mm x | E/A-Terminal neu (m | |
| 14 | TF1 | 0,00 mm x | TN-CK40-H11147 L | |



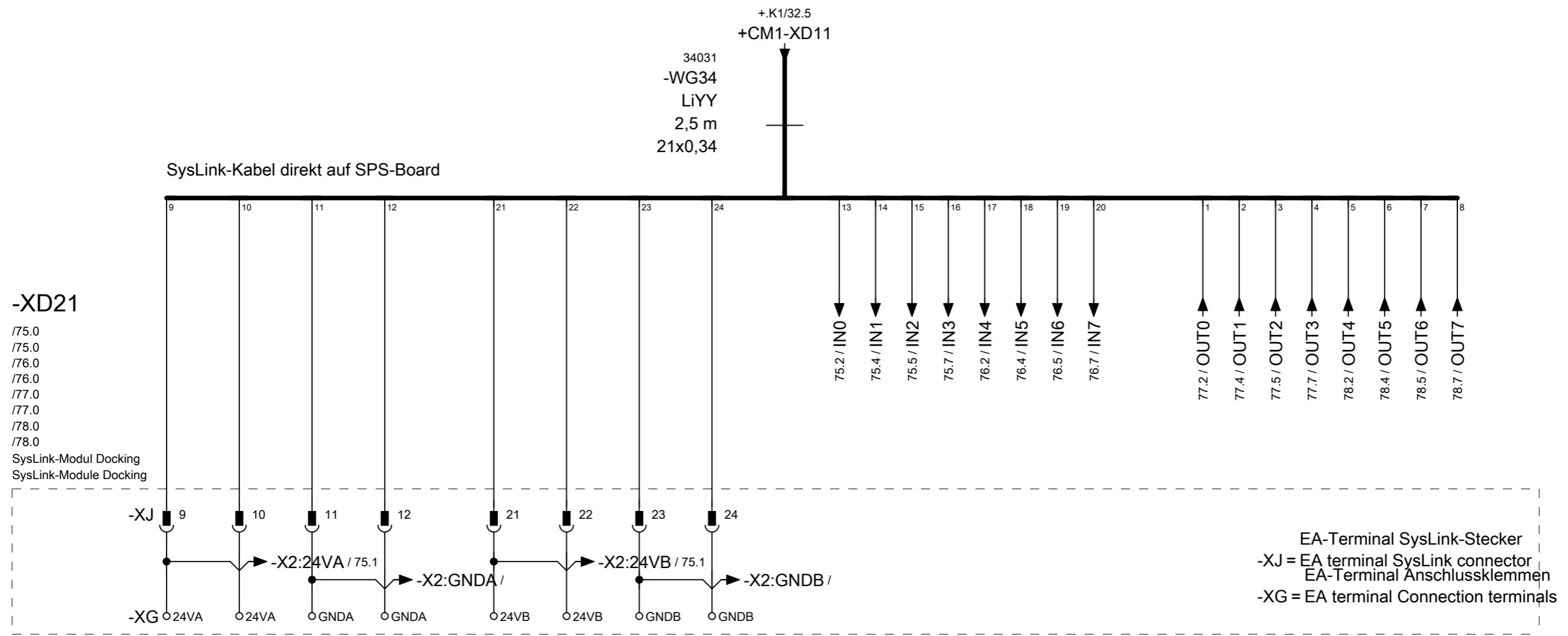
| | |
|---------|--------------------------|
| ←.M3/72 | |
| Datum | 16.03.2022 |
| Bearb. | Schuhmacher |
| Erst. | Schuhmacher |
| Ze.Nr. | N:FDMR07DE F: EPL0VZFG7M |



Aufbau Docking assembly docking

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M4 | Docking |
| | | | Seite 73 von 124 |

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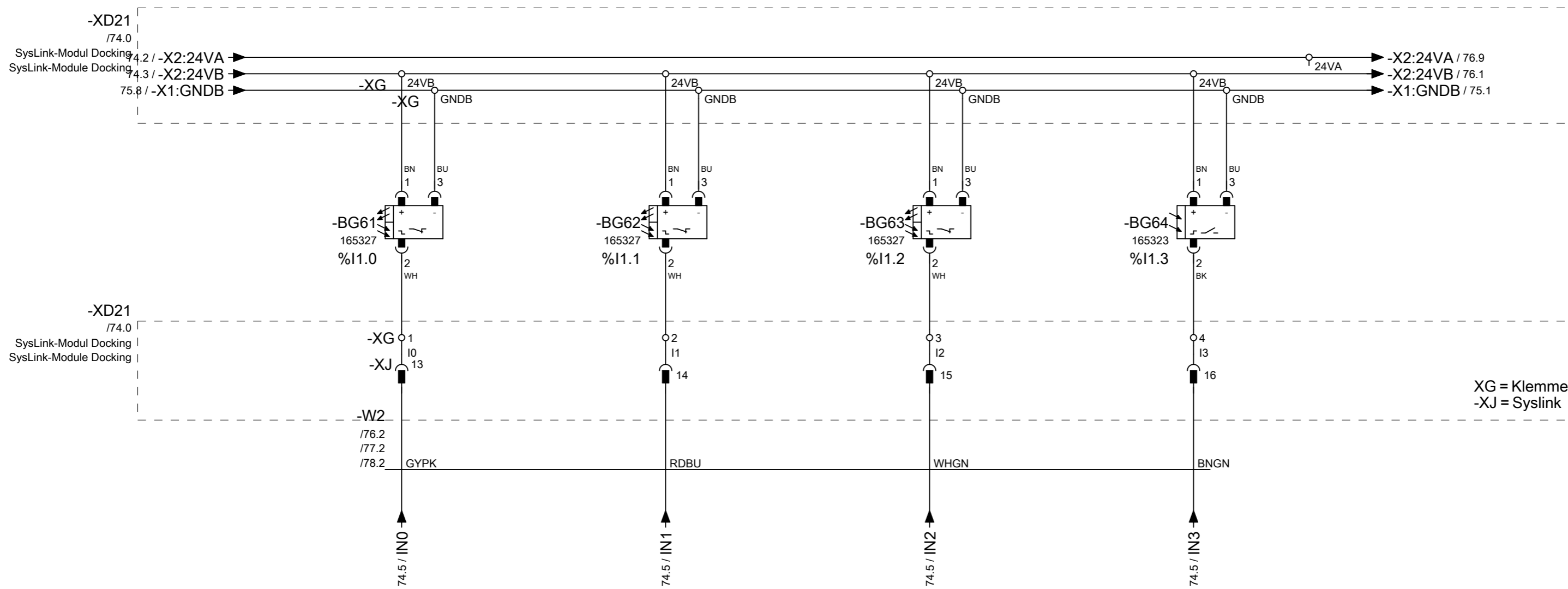
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|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



SysLink-Modul Docking SysLink-Module Docking

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M4 | Docking |
| | | | Seite 74 von 124 |

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Zuführung Kiste
 Überstand Richtung Robotino
 boxfeeding overlap
 side Robotino

Zuführung
 Kiste mittig auf Band
 feeding box
 middle on telescope

Zuführung Kiste
 Überstand Richtung Lager
 boxfeeding overlap
 side Storage

Zuführung
 Koppelsensor Robotino
 boxfeeding
 coupling sensor Robotino

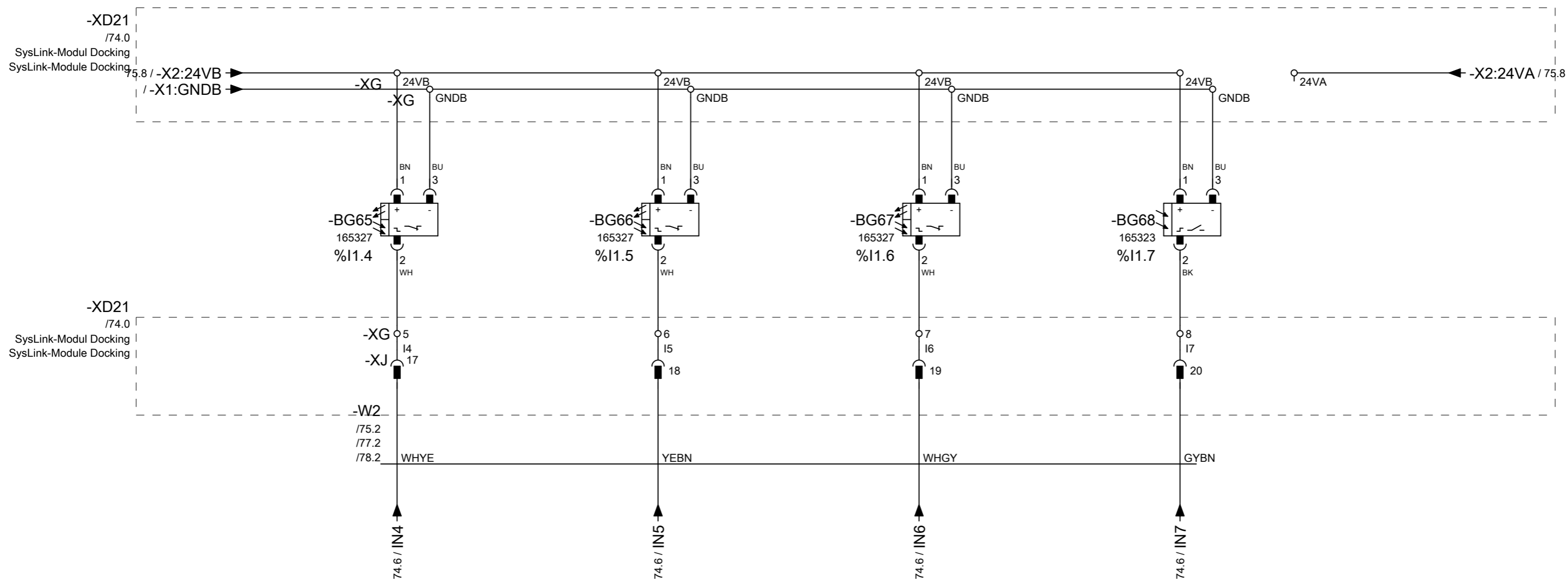
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| Datum | 16.03.2022 | Festo Didactic SE |
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| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Eingangs-Byte 1 Input-Byte 1

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M4 | Docking |
| | | | Seite 75 von 124 |

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Ausgabe Kiste
Überstand Richtung Robotino
output overlap
side Robotino

Ausgabe Kiste
Kiste mittig auf Band
output
box middle on conveyor

Ausgabe Kiste
Überstand Richtung Lager
output overlap
side Storage

Ausgabe
Koppelsensor Robotino
output
coupling sensor Robotino

<75

77>>

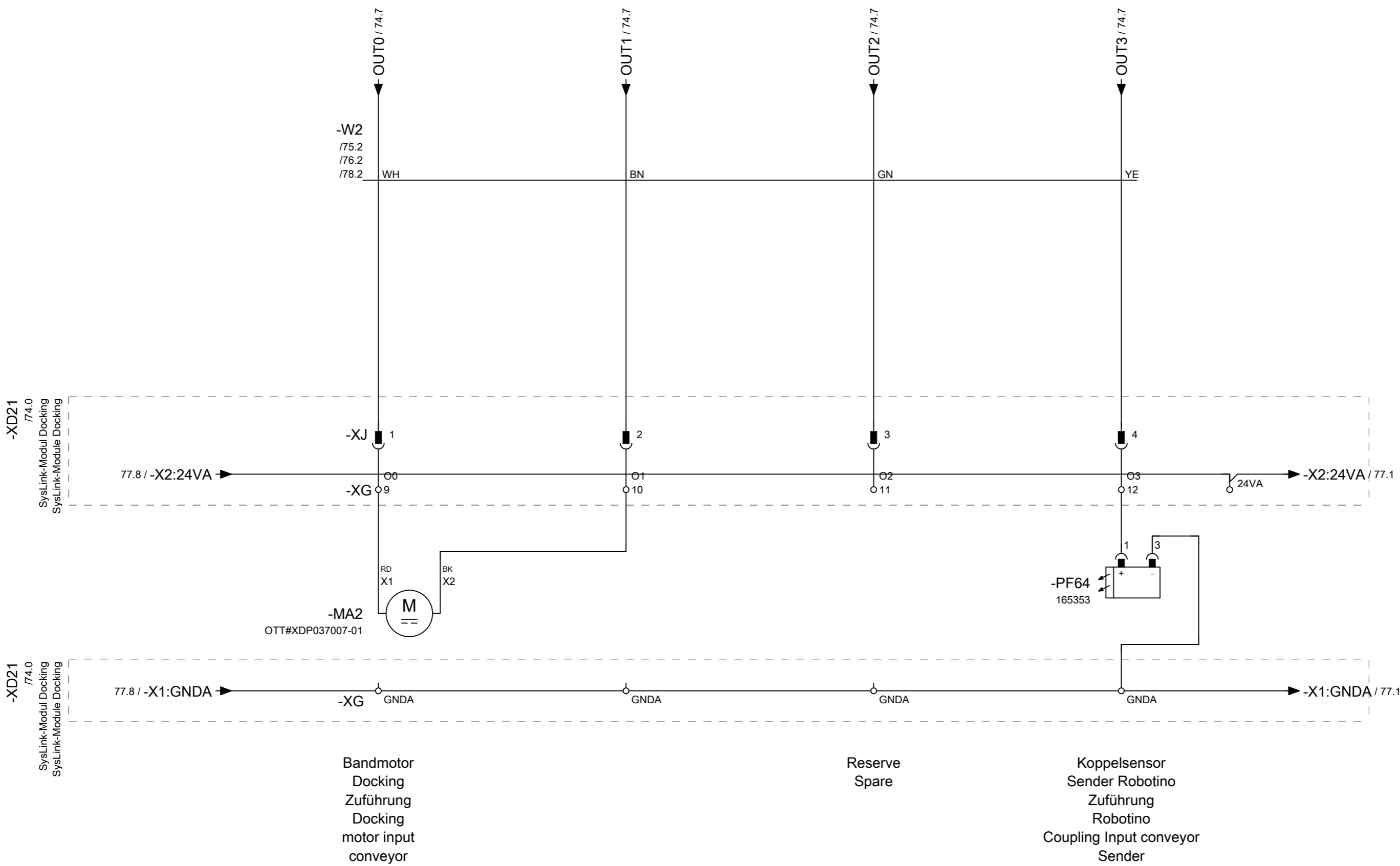
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|--------|-------------|--------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |



Eingangs-Byte 1 Input-Byte 1

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M4 | Docking |
| | | | Seite 76 von 124 |

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Bandmotor
Docking
Zuführung
Docking
motor input
conveyor

Reserve
Spare

Koppelsensor
Sender Robotino
Zuführung
Robotino
Coupling Input conveyor
Sender

<76

78>>

| | | |
|--------|-------------|--------------------|
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| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F: EPL0VZFG7M |

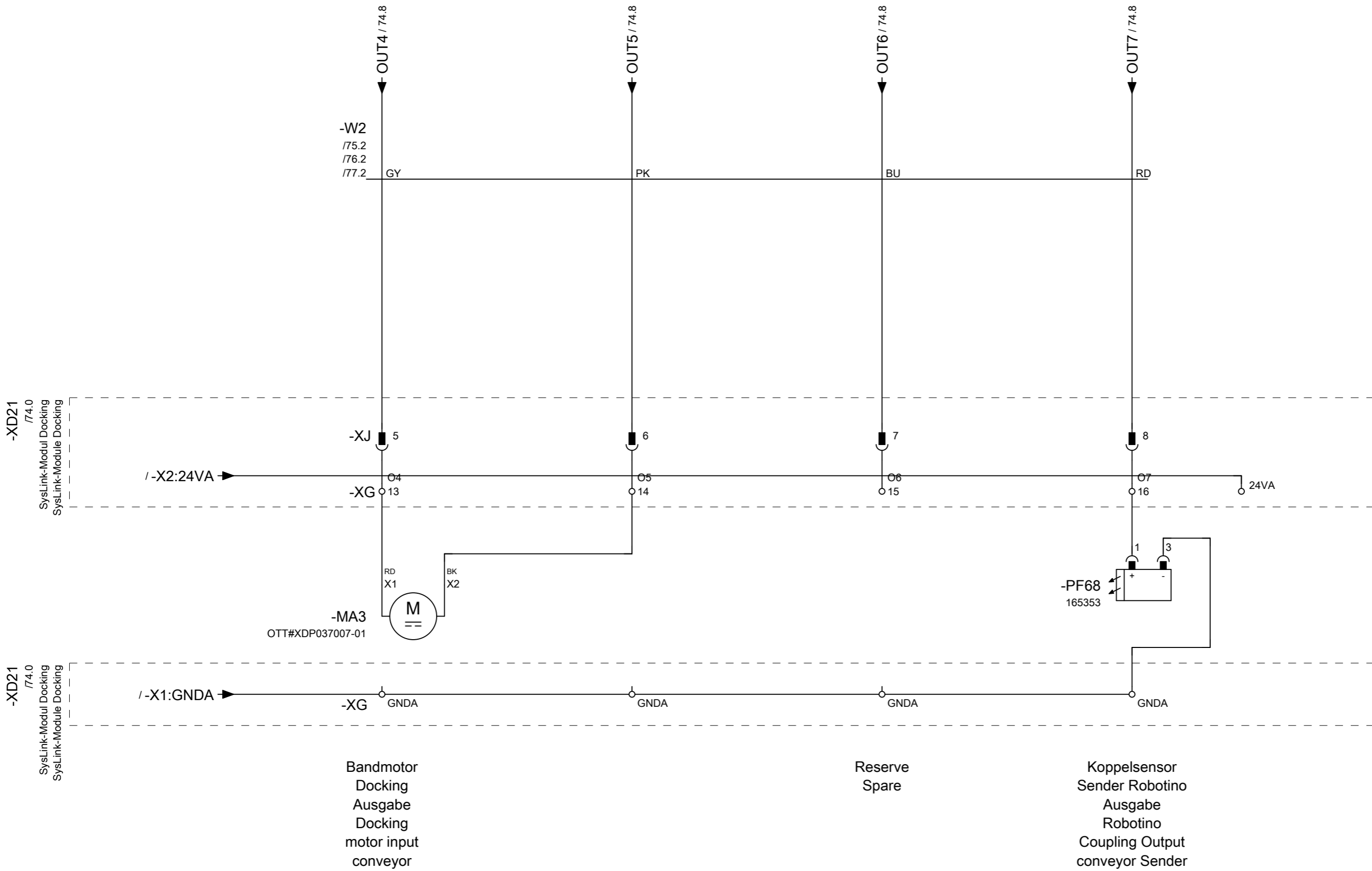


Ausgangs-Byte 1 Output-Byte 1

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M4 | Docking |
| | | | Seite 77 von 124 |

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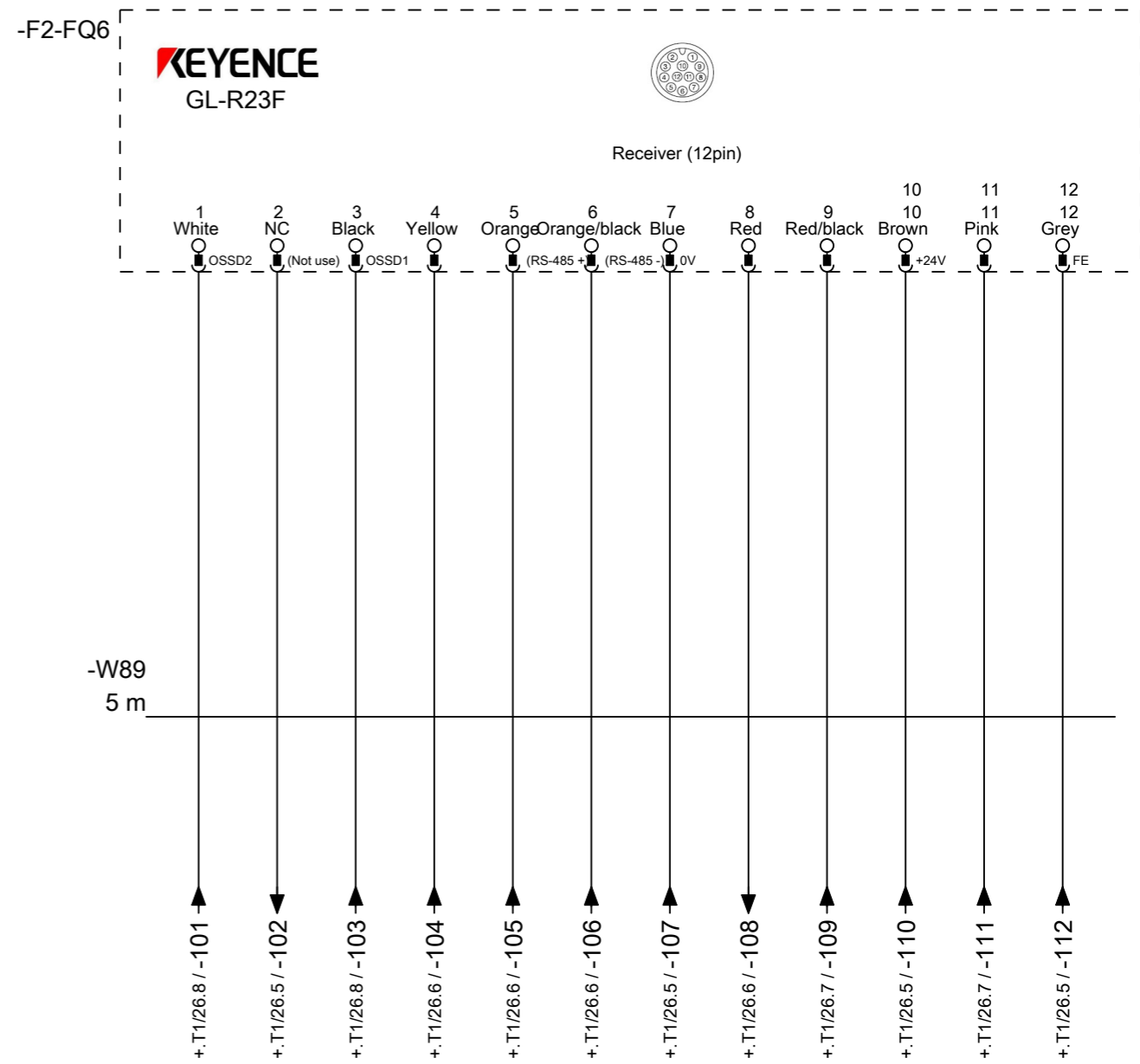
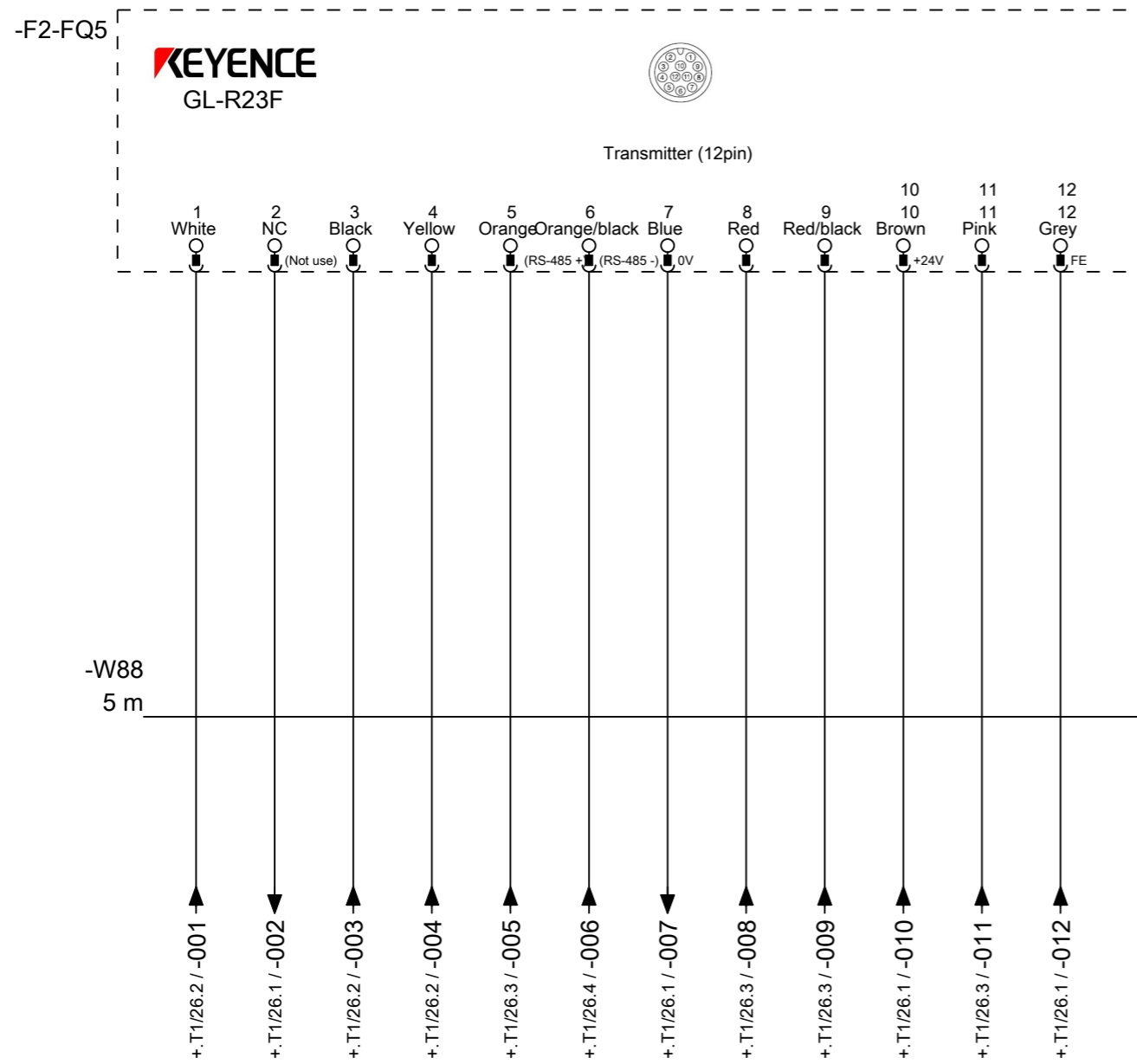


Bandmotor
Docking
Ausgabe
Docking
motor input
conveyor

Reserve
Spare

Koppelsensor
Sender Robotino
Ausgabe
Robotino
Coupling Output
conveyor Sender

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<78

+LST&KLP/80>>

| | | |
|--------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Datum | 21.03.2022 | Festo Didactic SE |
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| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE F: | EPL0VZFG7M \\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP2\FQx\aktuell Kistenlager\Kistenlager\7 2022-03-16.elk |



Lichtvorhang light curtain

| | | | |
|-----------|----|----------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + CM1.M4 | Docking |
| | | | Seite 79 von 124 |

Klemmenplan Terminal diagram

Leiste Strip
=CM1+CM1.T1-XD1

Verteilung 400 VAC
Distribution 400 VAC

| Funktionstext function text | Type | Kabelname | Cable name | Typ | Anschluss Connection point | Zielbezeichnung Target designation | Artikel part | Klemmen-Nr. Terminals-No | Brücken Jmp | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | Type | Kabelname | Cable name | Seite/Pfad |
|----------------------------------------------------|------|-----------|------------|-----|-------------------------------|---------------------------------------|-----------------|-----------------------------|----------------|----------------|-----------------------------|---------------------------------------|-------------------------------|------|-----------|------------|------------|
| | | | | | | | | | | | | | | | | | |
| Einspeisung Power supply | | | | | 1 | -XJ2 | WAGO#2002-1401 | 1L1 | • | | | -XJ1 | 1 | | | | /12.2 |
| = | | | | | | | WAGO#2002-1401 | 2L1 | • | | | +U1-QB1 | 1 | | | | /12.3 |
| | | | | | -X1:1 | -TB1 | WAGO#2002-1401 | 3L1 | • | | | -FB1 | 2 | | | | /13.1 |
| | | | | | 1 | -QA11-X9 | WAGO#2002-1401 | 3L1 | • | | | | | | | | /13.2 |
| | | | | | | | WAGO#2002-1401 | 3L1 | • | | | | | | | | /13.3 |
| Einspeisung Power supply | | | | | 2 | -XJ2 | WAGO#2002-1401 | 1L2 | • | | | -XJ1 | 2 | | | | /12.3 |
| = | | | | | 3 | -XJ2 | WAGO#2002-1401 | 1L3 | • | | | -XJ1 | 3 | | | | /12.4 |
| = | | | | | | | WAGO#2002-1401 | 2N | • | | | +U1-QB1 | 5 | | | | /12.4 |
| = | | | | | N | -XJ2 | WAGO#2002-1401 | 1N | • | | | -XJ1 | N | | | | /12.5 |
| | | | | | 2 | -QA11-X9 | WAGO#2002-1401 | 3N | • | | | | | | | | /13.5 |
| | | | | | | | WAGO#2002-1401 | 3N | • | | | | | | | | /13.6 |
| | | | | | -X1:2 | -TB1 | WAGO#2002-1401 | 3N | • | | | -FB1 | 4 | | | | /13.4 |
| Einspeisung Power supply | | | | | PE | -XJ2 | WAGO#2002-1407 | PE | • | | | -XJ1 | PE | | | | /12.6 |
| | | | | | 1 | -XE1 | WAGO#2010-1207 | PE | • | | | | | | | | /13.7 |
| | | | | | | | | | • | | | | | | | | |
| | | | | | 1 | -KF3-X10 | WAGO#2010-1207 | PE | • | | | | | | | | /13.7 |
| | | | | | | | | | • | | | | | | | | |
| Schaltschranksteckdose electric cabinet receptacle | | | | | -X1:3 | -TB1 | WAGO#2010-1207 | PE | • | | | | | | | | /13.8 |
| | | | | | | | | | • | | | | | | | | |
| Schaltschranksteckdose electric cabinet receptacle | | | | | 7 | -QA11-X9 | WAGO#2010-1207 | PE | • | | | -KF31 | PE | | | | /13.8 |
| | | | | | | | | | • | | | | | | | | |

X = Einzelader
X = Single core



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Klemmenplan Terminal diagram

Leiste Strip
=CM1+CM1.T1-XD2

Verteilung 24 V DC
Distribution 24 V DC

| Funktionstext function text | SIM-M8-4GD-2,5-PU-WKF80 | Type | Kabelname | Cable name | Anschluss Connection point | Zielbezeichnung Target designation | Artikel part | Klemmen-Nr. Terminals-No | Brücken Jmp | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | Type | Kabelname | Cable name | Seite/Pfad |
|--------------------------------------------------|-------------------------|------|-----------|------------|-------------------------------|---------------------------------------|-----------------|-----------------------------|----------------|----------------|-----------------------------|---------------------------------------|-------------------------------|------|-----------|------------|------------|
| | | | | | | | | | | | | | | | | | |
| 24V-Versorgung allgemein 24V supply is generally | | | | | 24V | -XF1 | WAGO#2002-1402 | 24V | ● | | | -FC2 | OUT:1 | | | | /15.1 |
| | | | | | 24V | -QA1-X2 | WAGO#2002-1402 | 24V | ● | | | | | | | | /15.1 |
| | | | | | X1:1 | -KF31 | WAGO#2002-1402 | 24V | ● | | | | | | | | /15.1 |
| | | | | | 8 | -QA11-X9 | WAGO#2002-1402 | 24V | ● | | | | | | | | /15.2 |
| 24V-Versorgung Touchpanel 24V supply touch pan | | | | | 3 | -KF3-X10 | WAGO#2002-1401 | 24VTP | ● | | | -FC2 | OUT:2 | | | | /15.2 |
| 24V-Versorgung Sensoren und SPS-Eingangsbyte | | | | | 41 | -FZ1 | WAGO#2002-1401 | 24VB | ● | | | -FC2 | OUT:3 | | | | /15.3 |
| | | | | | 1L+ | +K2-KF11 | WAGO#2002-1401 | 24VB | ● | | | +K1-KF1 | 1L+ | | | | /15.4 |
| | | | | | P24V | +K1-KF3 | WAGO#2002-1401 | 24VB | ● | | | +K1-KF2 | P24V | | | | /15.4 |
| | | | | | P24V | +K2-KF16 | WAGO#2002-1401 | 24VB | ● | | | +K2-KF12 | P24V | | | | /15.4 |
| 24V-Versorgung nach Not-Halt 24V supply after E- | | | | | 1 | +K2-KF17 | WAGO#2002-1401 | 24VA | ● | | | -FZ1 | 14 | | | | /15.5 |
| | | | | | 1 | +K2-KF18 | WAGO#2002-1401 | 24VA | ● | | | +K1-KF4 | P24V | | | | /15.6 |
| | | | | | 1 | -XJ12 | WAGO#2002-1401 | 24VA | ● | | DIN4 | | | | | | /15.6 |
| 0V-Versorgung gesamt 0V supply total | | | | | 4 | -XZ2-X4 | WAGO#2002-1404 | 0V | ● | | | -FC2 | OUT:GND' | | | | /15.8 |
| | | | | | 2 | -KF3-X10 | WAGO#2002-1404 | 0V | ● | | | +K1-KF1 | 1M | | | | /15.8 |
| | | | | | X1:3 | -KF31 | WAGO#2002-1404 | 0V | ● | | | +K1-KF2 | M | | | | /15.8 |
| | | | | | M | +U1-MA4 | WAGO#2002-1404 | 0V | ● | | | +K1-KF4 | M | | | | /15.9 |
| | | | | | 9 | -QA11-X9 | WAGO#2002-1404 | 0V | ● | | | +K2-KF12 | M | | | | /15.9 |
| | | | | | M | +K2-KF16 | WAGO#2002-1404 | 0V | ● | | | | | | | | /15.9 |

X = Einzelader
X = Single core



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Klemmenplan Terminal diagram

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| Funktionstext function text | UNITRONIC® LYY -WG1 | Type | Kabelname | Cable name | Leiste Strip =CM1+CM1.T1-XJ5 | | | | | | | | | | Type | Kabelname | Cable name | Seite/Pfad |
|----------------------------------|---------------------|------|-----------|------------|-----------------------------------------------------------------------|---------------------------------------|-----------------|-----------------------------|----------------|----------------|-----------------------------|---------------------------------------|-------------------------------|--|------|-----------|------------|------------|
| | | | | | Steckklemmen für Türschalter 1 Plug-in terminals for door switch 1 | | | | | | | | | | | | | |
| | | | | | Anschluss Connection point | Zielbezeichnung Target designation | Artikel part | Klemmen-Nr. Terminals-No | Brücken Jmp | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | | | | | |
| Schutztüre links guard door left | WH | | | | 11 | +C1-FQ1 | WAGO#2022-1301 | 1 | | | | +K2-KF12 | 9 | | | | /23.1 | |
| = | BN | | | | 12 | +C1-FQ1 | WAGO#2022-1301 | 2 | | | | -XJ6 | 1 | | | | /23.1 | |
| = | GN | | | | 21 | +C1-FQ1 | WAGO#2022-1301 | 3 | | | | +K2-KF12 | 13 | | | | /23.2 | |
| = | YE | | | | 22 | +C1-FQ1 | WAGO#2022-1301 | 4 | | | | -XJ6 | 3 | | | | /23.2 | |
| = | GY | | | | 41 | +C1-FQ1 | WAGO#2022-1301 | 5 | | | | +K2-KF12 | 10 | | | | /23.2 | |
| = | PK | | | | 42 | +C1-FQ1 | WAGO#2022-1301 | 6 | | | %I10.1 | +K2-KF12 | 2 | | | | /23.2 | |
| = | BU | | | | | +C1-FQ1-E1 | WAGO#2022-1301 | 7 | | | %Q0.6 | +K1-KF4 | 7 | | | | /23.3 | |
| = | RD | | | | | +C1-FQ1-E2 | WAGO#2022-1301 | 8 | | | | -XD2 | 0V | | | | /23.3 | |

X = Einzelader
X = Single core

<81

83>>

| | | |
|--------|-------------|------------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F:FDMK05DE E:PL0VZFG7M |



Klemmenplan =CM1+CM1.T1-XJ5 Terminal diagram =CM1+CM1.T1-XJ5

| | | | |
|-----------|----|-------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + LST | Auswertungen |
| | | | Seite 82 von 124 |

Klemmenplan Terminal diagram

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| Funktionstext function text | UNITRONIC® LYY -WG2 | Type | Kabelname | Cable name | Leiste Strip =CM1+CM1.T1-XJ6 | | | | | | | | | | Type | Kabelname | Cable name | Seite/Pfad |
|------------------------------------|---------------------|------|-----------|------------|-----------------------------------------------------------------------|---------------------------------------|-----------------|-----------------------------|----------------|----------------|-----------------------------|---------------------------------------|-------------------------------|--|------|-----------|------------|------------|
| | | | | | Steckklemmen für Türschalter 2 Plug-in terminals for door switch 2 | | | | | | | | | | | | | |
| | | | | | Anschluss Connection point | Zielbezeichnung Target designation | Artikel part | Klemmen-Nr. Terminals-No | Brücken Jmp | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | | | | | |
| Schutztüre rechts guard door right | WH | | | | 11 | +C1-FQ2 | WAGO#2022-1301 | 1 | | | | -XJ5 | 2 | | | | /23.6 | |
| = | BN | | | | 12 | +C1-FQ2 | WAGO#2022-1301 | 2 | | | %I10.0 | +K2-KF12 | 1 | | | | /23.6 | |
| = | GN | | | | 21 | +C1-FQ2 | WAGO#2022-1301 | 3 | | | | -XJ5 | 4 | | | | /23.7 | |
| = | YE | | | | 22 | +C1-FQ2 | WAGO#2022-1301 | 4 | | | %I10.4 | +K2-KF12 | 5 | | | | /23.7 | |
| = | GY | | | | 41 | +C1-FQ2 | WAGO#2022-1301 | 5 | | | | +K2-KF12 | 14 | | | | /23.7 | |
| = | PK | | | | 42 | +C1-FQ2 | WAGO#2022-1301 | 6 | | | %I10.5 | +K2-KF12 | 6 | | | | /23.7 | |
| = | BU | | | | | +C1-FQ2-E1 | WAGO#2022-1301 | 7 | | | %Q0.6 | -XJ5 | 7 | | | | /23.8 | |
| = | RD | | | | | +C1-FQ2-E2 | WAGO#2022-1301 | 8 | | | | -XJ5 | 8 | | | | /23.8 | |

X = Einzelader
X = Single core



Klemmenplan Terminal diagram

| Funktionstext function text | | | | | | | | Leiste Strip =CM1+CM1.T1-XJ8 | | | | | | | | | | | | | Steckklemmen für Türschalter 4 Plug-in terminals for door switch 4 | | | | Seite/Pfad | | | |
|--------------------------------|--|--|--|--|--|--|--|---------------------------------|-----------|-------------------------------|--|--------------|----------------|---------------------------------------|-----------------|-----------------------------|----------------|----------------|-----------------------------|---------------------------------------|-----------------------------------------------------------------------|------|-----------|--|------------|--|--|--|
| | | | | | | | | Type | Kabelname | Anschluss Connection point | | | | Zielbezeichnung Target designation | Artikel part | Klemmen-Nr. Terminals-No | Brücken Jmp | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | Type | Kabelname | | | | | |
| | | | | | | | | | -WG4 | 2 | | +C1-FQ4-XST1 | WAGO#2022-1301 | 1 | | | | -XJ7 | 2 | | | | /24.6 | | | | | |
| | | | | | | | | | | 1 | | +C1-FQ4-XST1 | WAGO#2022-1301 | 2 | | %I10.2 | +K2-KF12 | 3 | | | /24.6 | | | | | | | |
| | | | | | | | | | | 3 | | +C1-FQ4-XST1 | WAGO#2022-1301 | 4 | | %I10.6 | +K2-KF12 | 7 | | | /24.7 | | | | | | | |
| | | | | | | | | | | 4 | | +C1-FQ4-XST1 | WAGO#2022-1301 | 3 | | | -XJ7 | 4 | | | /24.7 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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X = Einzelader
X = Single core

<4

86>>

| | | | |
|--------|-------------|--------------------|----------------------|
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| Bearb. | Schuhmacher | Rechbergstraße 3 | |
| Erst. | Schuhmacher | D-73770 Denkendorf | |
| Ze.Nr. | | N:FDMR07DE | FFDMK05DE EPL0VZFG7M |



Klemmenplan =CM1+CM1.T1-XJ8 Terminal diagram =CM1+CM1.T1-XJ8

| | | | | |
|-----------|----|----------------------------|--------------|----------|
| S-Nr. | | Hochregallager Box -1512SP | | Seite 85 |
| PSP / DPJ | VN | = CM1 | | |
| | | + LST | Auswertungen | von 124 |

Klemmenplan Terminal diagram

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| Leiste Strip =CM1+CM1.T1-XJ11 | | | | | | | | | | Steckklemmen X-Achse Plug-in terminals X-axis | | Cable name | | Cable name | | Seite/Pfad | | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|--------------------------|-----|------|--------------------------------------------------|------------|-------------------------------|---------------------------------------|-----------------|-----------------------------|----------------|----------------|-----------------------------|---------------------------------------|-------------------------------|-----|--------|-----------|------------|------------|
| | | | | | | | | | | | | -WG12 | | | | | | | | | | | | | |
| Funktionstext function text | | | | | | | NEBM-M12G8-E-2.5-WAS1615 | Typ | Type | Kabelname | Cable name | Anschluss Connection point | Zielbezeichnung Target designation | Artikel part | Klemmen-Nr. Terminals-No | Brücken Jmp | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | Typ | Type | Kabelname | Cable name | Seite/Pfad |
| | | | | | | | | PK | | | | 22 | -QA11-X1 | WAGO#2022-1301 | 1 | | | DIN6 | +M1-XJ11-XS | 1:Bit0 | | | | +M1/59.4 | |
| | | | | | | | | | | | | 1 | +K2-KF14 | WAGO#2022-1301 | 2 | | | %I30.0 | +M1-XJ11-XS | 2:Bit1 | | 2BN | | +M1/59.1 | |
| | | | | | | | | BU | | | | 10 | -QA11-X1 | WAGO#2022-1301 | 3 | | | DIN7 | +M1-XJ11-XS | 3:Bit2 | | | | +M1/59.5 | |
| | | | | | | | | | | | | 2 | +K2-KF14 | WAGO#2022-1301 | 4 | | | %I30.1 | +M1-XJ11-XS | 4:Bit3 | | 4YE | | +M1/59.1 | |
| | | | | | | | | RD | | | | 23 | -QA11-X1 | WAGO#2022-1301 | 5 | | | DIN8 | +M1-XJ11-XS | 5:Bit4 | | | | +M1/59.5 | |
| | | | | | | | | | | | | 3 | +K2-KF14 | WAGO#2022-1301 | 6 | | | %I30.2 | +M1-XJ11-XS | 6:Bit5 | | 6PK | | +M1/59.1 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 7 | | | | +M1-XJ11-XS | 7:Bit6 | | 7BU | | +M1/59.2 | |
| | | | | | | | | | | | | 4 | +K2-KF14 | WAGO#2022-1301 | 8 | | | %I30.3 | +M1-XJ11-XS | 8:Bit7 | | 8RD | | +M1/59.1 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 9 | | | | +M1-XJ11-XS | 9:Bit8 | | 9BK | | +M1/59.2 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 10 | | | | +M1-XJ11-XS | 10:Bit9 | | 10VT | | +M1/59.1 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 11 | | | | +M1-XJ11-XS | 11:Bit10 | | 11GYPK | | +M1/59.2 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 12 | | | | +M1-XJ11-XS | 12:Bit11 | | 12RDBU | | +M1/59.2 | |
| | | | | | | | | VT | | | | 18 | -QA11-X1 | WAGO#2022-1301 | 13 | | | | +M1-XJ11-XS | 13:+24V | | | | +M1/59.3 | |
| | | | | | | | | WH | | | | 6 | -QA11-X1 | WAGO#2022-1301 | 14 | ● | | | +M1-XJ11-XS | 14:0V | | | | +M1/59.3 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 15 | ● | | | +M1-XJ11-XS | 15:0V | | | | +M1/59.3 | |

X = Einzelader
X = Single core

<85

87>>

| | | |
|--------|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F:FDKM05DE |
| | E:PL0VZFG7M | I:\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP2\Bsp\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk |



Klemmenplan =CM1+CM1.T1-XJ11
Terminal diagram =CM1+CM1.T1-XJ11

| | | | |
|-----------|----|-------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + LST | Auswertungen |
| | | | Seite 86 von 124 |

Klemmenplan Terminal diagram

Leiste Strip
=CM1+CM1.T1-XJ12

Steckklemmen Freigabesignale X-Achse
Plug-in terminals Enable signals X-axis

| Funktionstext function text | Typ | Type | Kabelname | Cable name | Anschluss Connection point | Zielbezeichnung Target designation | Artikel part | Klemmen-Nr. Terminals-No | Brücken Bridges | Etagen Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | Typ | Type | Kabelname | Cable name | Seite/Pfad | |
|-------------------------------------|-----|------|-----------|------------|-------------------------------|---------------------------------------|-----------------|-----------------------------|--------------------|-----------------------|-----------------------------|---------------------------------------|-------------------------------|-----|------|-----------|------------|------------|----------------------------------|
| | | | | | | | | | | | | | | | | | | | Endstufenfreigabe enable outputs |
| Reglerfreigabe Release controller | GY | | | | 9 | -QA11-X1 | WAGO#2022-1301 | 2 | | | %Q0.2 | + .K1-KF4 | 3 | | | | | | + .M1/59.4 |
| Betriebsbereit ### FREMDSPRACHE ### | BN | | | | 24 | -QA11-X1 | WAGO#2022-1301 | 3 | | | %I0.2 | + .K1-KF2 | 3 | | | | | | + .M1/59.5 |
| Bewegung beendet motion complete | GN | | | | 12 | -QA11-X1 | WAGO#2022-1301 | 4 | | | %I0.3 | + .K1-KF2 | 4 | | | | | | + .M1/59.5 |

X = Einzelader
X = Single core



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Klemmenplan Terminal diagram

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| Leiste Strip =CM1+CM1.T1-XJ21 | | | | | | | | | | Steckklemmen Z-Achse Plug-in terminals Z-axis | | Cable name | | Cable name | | | | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|-------------------------|-----|------|--------------------------------------------------|------------|-------------------------------|---------------------------------------|-----------------|-----------------------------|----------------|----------------|-----------------------------|---------------------------------------|-------------------------------|-----|--------|-----------|------------|------------|
| | | | | | | | | | | | | -WG22 | | | | | | | | | | | | | |
| Funktionstext function text | | | | | | | NEBM-M12G8-E-5-NH9 0315 | Typ | Type | Kabelname | Cable name | Anschluss Connection point | Zielbezeichnung Target designation | Artikel part | Klemmen-Nr. Terminals-No | Brücken Jmp | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | Typ | Type | Kabelname | Cable name | Seite/Pfad |
| | | | | | | | | PK | | | | 22 | -QA21-X1 | WAGO#2022-1301 | 1 | | | DIN6 | + .M2-XJ21-XS | 1:Bit0 | | | | + .M2/63.4 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 2 | | | | + .M2-XJ21-XS | 2:Bit1 | | 2BN | | + .M2/63.1 | |
| | | | | | | | | BU | | | | 10 | -QA21-X1 | WAGO#2022-1301 | 3 | | | DIN7 | + .M2-XJ21-XS | 3:Bit2 | | | | + .M2/63.5 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 4 | | | | + .M2-XJ21-XS | 4:Bit3 | | 4YE | | + .M2/63.1 | |
| | | | | | | | | RD | | | | 23 | -QA21-X1 | WAGO#2022-1301 | 5 | | | DIN8 | + .M2-XJ21-XS | 5:Bit4 | | | | + .M2/63.5 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 6 | | | | + .M2-XJ21-XS | 6:Bit5 | | 6PK | | + .M2/63.1 | |
| | | | | | | | | BK | | | | 11 | -QA21-X1 | WAGO#2022-1301 | 7 | | | DIN9 | + .M2-XJ21-XS | 7:Bit6 | | | | + .M2/63.5 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 8 | | | | + .M2-XJ21-XS | 8:Bit7 | | 8RD | | + .M2/63.1 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 9 | | | | + .M2-XJ21-XS | 9:n.c. | | 9BK | | + .M2/63.1 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 10 | | | | + .M2-XJ21-XS | 10:n.c. | | 10VT | | + .M2/63.2 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 11 | | | | + .M2-XJ21-XS | 11:n.c. | | 11GYPK | | + .M2/63.2 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 12 | | | | + .M2-XJ21-XS | 12:n.c. | | 12RDBU | | + .M2/63.2 | |
| | | | | | | | | VT | | | | 18 | -QA21-X1 | WAGO#2022-1301 | 13 | | | | + .M2-XJ21-XS | 13:+24V | | | | + .M2/63.3 | |
| | | | | | | | | WH | | | | 6 | -QA21-X1 | WAGO#2022-1301 | 14 | ● | | | + .M2-XJ21-XS | 14:0V | | | | + .M2/63.3 | |
| | | | | | | | | | | | | | | WAGO#2022-1301 | 15 | ● | | | + .M2-XJ21-XS | 15:0V | | | | + .M2/63.3 | |

X = Einzelader
X = Single core

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| | | |
|--------|-------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F:FDKM05DE |
| | E:PL0VZFG7M | I:\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP219\Boxlaktuell Kistenlager\KistenlagerV7 2022-03-16.elk |



Klemmenplan =CM1+CM1.T1-XJ21
Terminal diagram =CM1+CM1.T1-XJ21

| | | | |
|-----------|----|-------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + LST | Auswertungen |
| | | | Seite 88 von 124 |

Klemmenplan Terminal diagram

| Funktionstext function text | NEBM-M12G8-E-5-NH9-0315 | Type | Kabelname | Leiste Strip =CM1+CM1.T1-XJ22 | | | | | | | | | | Type | Kabelname | Seite/Pfad |
|-------------------------------------|-------------------------|------|-----------|----------------------------------|---------------------------------------|-----------------|-----------------------------|------------------|----------------|-----------------------------|---------------------------------------|-------------------------------|--|------|------------|------------|
| | | | | Anschluss Connection point | Zielbezeichnung Target designation | Artikel part | Klemmen-Nr. Terminals-No | Brücken Jumps | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | | | | |
| Endstufenfreigabe enable outputs | YE | | | 21 | -QA21-X1 | WAGO#2022-1301 | 1 | | | DIN4 | -XD2 | 24VA | | | + .M2/63.4 | |
| Reglerfreigabe Release controller | GY | | | 9 | -QA21-X1 | WAGO#2022-1301 | 2 | | | %Q0.3 | +.K1-KF4 | 4 | | | + .M2/63.4 | |
| Betriebsbereit ### FREMDSPRACHE ### | BN | | | 24 | -QA21-X1 | WAGO#2022-1301 | 3 | | | %I0.4 | +.K1-KF2 | 5 | | | + .M2/63.5 | |
| Bewegung beendet motion complete | GN | | | 12 | -QA21-X1 | WAGO#2022-1301 | 4 | | | %I0.7 | +.K1-KF2 | 8 | | | + .M2/63.5 | |

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X = Einzelader
X = Single core

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| | | |
|--------|-------------|------------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | F:FDKM05DE E:PL0VZFG7M |



Klemmenplan =CM1+CM1.T1-XJ22
Terminal diagram =CM1+CM1.T1-XJ22

| | | | | |
|-----------|----|-------|----------------------------|----------|
| S-Nr. | | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP | Seite 89 |
| | | + LST | Auswertungen | von 124 |

\\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP2\FB4\aktuell\Kistenlager\KistenlagerV7 2022-03-16.elk

Klemmenplan Terminal diagram

Leiste Strip
=CM1+CM1.K1-XD11-XG1

| Funktionstext function text | Type | Kabelname | Cable name | Anschluss Connection point | Zielbezeichnung Target designation | Artikel part | Klemmen-Nr. Terminals-No | Brücken Jmp. | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | Type | Kabelname | Cable name | Seite/Pfad |
|---------------------------------------------------|------|-----------|------------|-------------------------------|---------------------------------------|-----------------|-----------------------------|-----------------|----------------|-----------------------------|---------------------------------------|-------------------------------|------|-----------|------------|------------|
| | | | | | | | | | | | | | | | | |
| | | | | 24VA | +T1-XD2 | | 24 VA | • | | DIN4 | -XD11-XJ1 | 9 | | | | /32.1 |
| | | | | 24 VA | +K2-XD12-XG1 | | 24 VA | • | | DIN4 | -XD11-XJ1 | 10 | | | | /32.2 |
| | | | | 24VB | +T1-XD2 | | 24 VB | • | | | -XD11-XJ1 | 21 | | | | /32.3 |
| | | | | 24 VB | +K2-XD12-XG1 | | 24 VB | • | | | -XD11-XJ1 | 22 | | | | /32.3 |
| | | | | 0V | +T1-XD2 | | GND A | • | | | -XD11-XJ1 | 11 | | | | /32.2 |
| | | | | | | | GND A | • | | | -XD11-XJ1 | 12 | | | | /32.2 |
| | | | | | | | GND B | • | | | -XD11-XJ1 | 23 | | | | /32.4 |
| | | | | GND A | +K2-XD12-XG1 | | GND B | • | | | -XD11-XJ1 | 24 | | | | /32.4 |
| | | | | 1 | -KF3 | | 1 | • | | %I1.0 | -XD11-XJ1 | 13 | | | | /33.2 |
| | | | | 2 | -KF3 | | 2 | • | | %I1.1 | -XD11-XJ1 | 14 | | | | /33.4 |
| | | | | 3 | -KF3 | | 3 | • | | %I1.2 | -XD11-XJ1 | 15 | | | | /33.5 |
| | | | | 4 | -KF3 | | 4 | • | | %I1.3 | -XD11-XJ1 | 16 | | | | /33.7 |
| | | | | 5 | -KF3 | | 5 | • | | %I1.4 | -XD11-XJ1 | 17 | | | | /34.2 |
| | | | | 6 | -KF3 | | 6 | • | | %I1.5 | -XD11-XJ1 | 18 | | | | /34.4 |
| | | | | 7 | -KF3 | | 7 | • | | %I1.6 | -XD11-XJ1 | 19 | | | | /34.5 |
| | | | | 8 | -KF3 | | 8 | • | | %I1.7 | -XD11-XJ1 | 20 | | | | /34.7 |
| | | | | M2 | +T1-QA2-X2 | | 9 | • | | | -XD11-XJ1 | 1 | | | | /35.2 |
| | | | | M1 | +T1-QA2-X2 | | 10 | • | | | -XD11-XJ1 | 2 | | | | /35.4 |
| Lichtvorhang Lagerkreislauf Deaktivierungseingang | | | | | | | 11 | • | | | -XD11-XJ1 | 3 | | | | /35.5 |
| = | | | | 4 | -KF5 | | 12 | • | | %Q1.3 | -XD11-XJ1 | 4 | | | | /35.7 |
| | | | | M2 | +T1-QA3-X2 | | 13 | • | | | -XD11-XJ1 | 5 | | | | /36.2 |
| | | | | M1 | +T1-QA3-X2 | | 14 | • | | | -XD11-XJ1 | 6 | | | | /36.4 |
| Lichtvorhang Lagerkreislauf Deaktivierungseingang | | | | | | | 15 | • | | | -XD11-XJ1 | 7 | | | | /36.5 |
| = | | | | 8 | -KF5 | | 16 | • | | %Q1.7 | -XD11-XJ1 | 8 | | | | /36.7 |

X = Einzelader
X = Single core



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Klemmenplan Terminal diagram

| Leiste Strip =CM1+CM1.K2-XD12-XG1 | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-----|------|-----------|------------|-----|-------------------------------|---------------------------------------|-----------------|-----------------------------|-----------------|----------------|-----------------------------|---------------------------------------|-------------------------------|-----|------|-----------|------------|------------|
| Funktionstext function text | Typ | Type | Kabelname | Cable name | Typ | Anschluss Connection point | Zielbezeichnung Target designation | Artikel part | Klemmen-Nr. Terminals-No | Brücken Jmp. | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | Typ | Type | Kabelname | Cable name | Seite/Pfad |
| | | | | | | 24 VA | +.K1-XD11-XG1 | | 24 VA | • | | DIN4 | -XD12-XJ1 | 9 | | | | | /45.1 |
| | | | | | | | | | 24 VA | • | | DIN4 | -XD12-XJ1 | 10 | | | | | /45.2 |
| | | | | | | 24 VB | +.K1-XD11-XG1 | | 24 VB | • | | | -XD12-XJ1 | 21 | | | | | /45.3 |
| | | | | | | | | | 24 VB | • | | | -XD12-XJ1 | 22 | | | | | /45.3 |
| | | | | | | GND B | +.K1-XD11-XG1 | | GND A | • | | | -XD12-XJ1 | 11 | | | | | /45.2 |
| | | | | | | | | | GND A | • | | | -XD12-XJ1 | 12 | | | | | /45.2 |
| | | | | | | | | | GND B | • | | | -XD12-XJ1 | 23 | | | | | /45.4 |
| | | | | | | | | | GND B | • | | | -XD12-XJ1 | 24 | | | | | /45.4 |
| | | | | | | 1 | -KF15 | | 1 | • | | %I40.0 | -XD12-XJ1 | 13 | | | | | /46.2 |
| | | | | | | 2 | -KF15 | | 2 | • | | %I40.1 | -XD12-XJ1 | 14 | | | | | /46.4 |
| | | | | | | 3 | -KF15 | | 3 | • | | %I40.2 | -XD12-XJ1 | 15 | | | | | /46.5 |
| | | | | | | 4 | -KF15 | | 4 | • | | %I40.3 | -XD12-XJ1 | 16 | | | | | /46.7 |
| | | | | | | 5 | -KF15 | | 5 | • | | %I40.4 | -XD12-XJ1 | 17 | | | | | /47.2 |
| | | | | | | 6 | -KF15 | | 6 | • | | %I40.5 | -XD12-XJ1 | 18 | | | | | /47.4 |
| | | | | | | 7 | -KF15 | | 7 | • | | %I40.6 | -XD12-XJ1 | 19 | | | | | /47.5 |
| | | | | | | 8 | -KF15 | | 8 | • | | %I40.7 | -XD12-XJ1 | 20 | | | | | /47.7 |
| | | | | | | 1 | -XD12-XJ1 | | 9 | • | | | | | | | | | /45.7 |
| | | | | | | 2 | -XD12-XJ1 | | 10 | • | | %Q0.0 | +.K1-KF4 | 1 | | | | | /45.7 |
| | | | | | | 3 | -XD12-XJ1 | | 11 | • | | | | | | | | | /45.7 |
| | | | | | | 4 | -XD12-XJ1 | | 12 | • | | %Q0.1 | +.K1-KF4 | 2 | | | | | /45.7 |

Diese Zeichnung ist Eigentum der Festo Didactic SE

X = Einzelader
X = Single core

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Datum 16.03.2022 Festo Didactic SE
 Bearb. Schuhmacher Rechbergstraße 3
 Erst. Schuhmacher D-73770 Denkendorf
 Ze.Nr. N:FDMR07DE F:FDMK05DE E:PL0VZFG7M \\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDEI\Projects\Didactic\Products\21 CP2191\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk



Klemmenplan =CM1+CM1.K2-XD12-XG1
Terminal diagram

S-Nr. VN = CM1 Hochregallager Box -1512SP Seite 91
 PSP / DPJ + LST Auswertungen von 124

Klemmenplan Terminal diagram

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| | | | | Leiste Strip =CM1+CM1.M3-XD3 | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--|--|---------------------------------|------|-----------|------------|----------------------------------------------------------|---------------------------------------|--------------------|-----------------------------|----------------|----------------|-----------------------------|---------------------------------------|-------------------------------|------|-----------|------------|---------------------|---------------------|------------|-------|--|
| Funktionstext function text | | | | UNITRONIC® LIY -WD31 | Type | Kabelname | Cable name | Klemmen Motoren im Teleskop Clamp motors in telescope | | | | | | | | | | | | | | Seite/Pfad | | |
| | | | | | | | | Anschluss Connection point | Zielbezeichnung Target designation | Artikel part | Klemmen-Nr. Terminals-No | Brücken Jmp | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | Type | Kabelname | Cable name | UNITRONIC® LIY -WD1 | UNITRONIC® LIY -WD1 | | | |
| Bandmotor conveyor motor | | | | WH | | | | M2 | + .T1-QA1-X2 | WAGO#2002-1401;WAG | | 1 | | | | | -MA1 | X1 | | | | | /71.3 | |
| = | | | | BN | | | | M1 | + .T1-QA1-X2 | WAGO#2002-1401 | | 2 | | | | | -MA1 | X2 | | | | | /71.3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | |

X = Einzelader
X = Single core &STP/93>>



Steckerplan Plug diagram

Stecker plug
=CM1+CM1.T1-KF3-X10

| Funktionstext function text | Type | Kabelname Cable name | Anschluss Connection point | Zielbezeichnung Target designation | Klemmen-Nr. Terminals-No | Brücken Jumpers | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | Type | Kabelname Cable name | Seite/Pfad Page/Path |
|--------------------------------|------|-------------------------|-------------------------------|---------------------------------------|-----------------------------|--------------------|----------------|-----------------------------|---------------------------------------|-------------------------------|------|-------------------------|-------------------------|
| | | | | | | | | | | | | | |
| | | | | | 1 | | | | -XD1 | PE | | | /22.3 |
| | | | | | 2 | | | | -XD2 | 0V | | | /22.3 |
| | | | | | 3 | | | | -XD2 | 24VTP | | | /22.3 |
| | | | | | 5 | | | | | | | | /22.4 |
| | | | | | 6 | | | | | | | | /22.4 |
| | | | | | 7 | | | | | | | | /22.4 |
| | | | | | 8 | | | | | | | | /22.5 |
| | | | | | 9 | | | | | | | | /22.6 |
| | | | | | 10 | | | | | | | | /22.6 |
| | | | | | 11 | | | | | | | | /22.6 |
| | | | | | 12 | | | | | | | | /22.6 |

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X = Einzelader
X = Single core



Steckerplan Plug diagram

Stecker plug
=CM1+CM1.K1-XD11-XJ1

| Funktionstext function text | L1Y | -WG34 | Type | Kabelname | Cable name | Stecker plug | | | | | | | Type | Kabelname | Cable name | Seite/Pfad Page/Path |
|-----------------------------------------------------|------|-------|------|-----------|------------|-------------------------------|---------------------------------------|-----------------------------|--------------------|----------------|-----------------------------|---------------------------------------|-------|-----------|------------|-------------------------|
| | | | | | | Anschluss Connection point | Zielbezeichnung Target designation | Klemmen-Nr. Terminals-No | Brücken Jumpers | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | | | | |
| | WH | | | | | 1 | +.M4-XD21-XJ | 1 | | | | -XD11-XG1 | 9 | | | /35.2 |
| | BN | | | | | 2 | +.M4-XD21-XJ | 2 | | | | -XD11-XG1 | 10 | | | /35.4 |
| Lichtvorhang Lagerkreislauf Deaktivierungseingang 1 | GN | | | | | 3 | +.M4-XD21-XJ | 3 | | | | -XD11-XG1 | 11 | | | /35.5 |
| = | YE | | | | | 4 | +.M4-XD21-XJ | 4 | | %Q1.3 | | -XD11-XG1 | 12 | | | /35.7 |
| | GY | | | | | 5 | +.M4-XD21-XJ | 5 | | | | -XD11-XG1 | 13 | | | /36.2 |
| | PK | | | | | 6 | +.M4-XD21-XJ | 6 | | | | -XD11-XG1 | 14 | | | /36.4 |
| Lichtvorhang Lagerkreislauf Deaktivierungseingang 2 | BU | | | | | 7 | +.M4-XD21-XJ | 7 | | | | -XD11-XG1 | 15 | | | /36.5 |
| = | RD | | | | | 8 | +.M4-XD21-XJ | 8 | | %Q1.7 | | -XD11-XG1 | 16 | | | /36.7 |
| | RD | | | | | 9 | +.M4-XD21-XJ | 9 | | DIN4 | | -XD11-XG1 | 24 VA | | | /32.1 |
| | RD | | | | | 10 | +.M4-XD21-XJ | 10 | | DIN4 | | -XD11-XG1 | 24 VA | | | /32.2 |
| | BU | | | | | 11 | +.M4-XD21-XJ | 11 | | | | -XD11-XG1 | GND A | | | /32.2 |
| | BU | | | | | 12 | +.M4-XD21-XJ | 12 | | | | -XD11-XG1 | GND A | | | /32.2 |
| | GYPK | | | | | 13 | +.M4-XD21-XJ | 13 | | %I1.0 | | -XD11-XG1 | 1 | | | /33.2 |
| | RDBU | | | | | 14 | +.M4-XD21-XJ | 14 | | %I1.1 | | -XD11-XG1 | 2 | | | /33.4 |
| | WHGN | | | | | 15 | +.M4-XD21-XJ | 15 | | %I1.2 | | -XD11-XG1 | 3 | | | /33.5 |
| | BNGN | | | | | 16 | +.M4-XD21-XJ | 16 | | %I1.3 | | -XD11-XG1 | 4 | | | /33.7 |
| | WHYE | | | | | 17 | +.M4-XD21-XJ | 17 | | %I1.4 | | -XD11-XG1 | 5 | | | /34.2 |
| | YEBN | | | | | 18 | +.M4-XD21-XJ | 18 | | %I1.5 | | -XD11-XG1 | 6 | | | /34.4 |
| | WHGY | | | | | 19 | +.M4-XD21-XJ | 19 | | %I1.6 | | -XD11-XG1 | 7 | | | /34.5 |
| | GYBN | | | | | 20 | +.M4-XD21-XJ | 20 | | %I1.7 | | -XD11-XG1 | 8 | | | /34.7 |
| | RD | | | | | 21 | +.M4-XD21-XJ | 21 | | | | -XD11-XG1 | 24 VB | | | /32.3 |
| | RD | | | | | 22 | +.M4-XD21-XJ | 22 | | | | -XD11-XG1 | 24 VB | | | /32.3 |
| | BU | | | | | 23 | +.M4-XD21-XJ | 23 | | | | -XD11-XG1 | GND B | | | /32.4 |
| | BU | | | | | 24 | +.M4-XD21-XJ | 24 | | | | -XD11-XG1 | GND B | | | /32.4 |

X = Einzelader
X = Single core



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Steckerplan Plug diagram

Stecker plug
=CM1+CM1.K2-XD12-XJ1

| Funktionstext function text | Type | Kabelname Cable name | Anschluss Connection point | Zielbezeichnung Target designation | Klemmen-Nr. Terminals-No | Brücken Jumpers | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | Type | Kabelname Cable name | Seite/Pfad Page/Path |
|--------------------------------|------|-------------------------|-------------------------------|---------------------------------------|-----------------------------|--------------------|-------------|-----------------------------|---------------------------------------|-------------------------------|------|-------------------------|-------------------------|
| | | | | | | | | | | | | | |
| | | -WG12 | 9 | -XD12-XG1 | 1 | | | | | | | | /45.7 |
| | | | 10 | -XD12-XG1 | 2 | | | %Q0.0 | +M3-XD22-XJ | 2 | BN | | /45.7 |
| | | | 11 | -XD12-XG1 | 3 | | | | | | | | /45.7 |
| | | | 12 | -XD12-XG1 | 4 | | | %Q0.1 | +M3-XD22-XJ | 4 | YE | | /45.7 |
| | | RD | 9 | +M3-XD22-XJ | 9 | | | DIN4 | -XD12-XG1 | 24 VA | | | /45.1 |
| | | RD | 10 | +M3-XD22-XJ | 10 | | | DIN4 | -XD12-XG1 | 24 VA | | | /45.2 |
| | | BU | 11 | +M3-XD22-XJ | 11 | | | | -XD12-XG1 | GND A | | | /45.2 |
| | | BU | 12 | +M3-XD22-XJ | 12 | | | | -XD12-XG1 | GND A | | | /45.2 |
| | | GYPK | 13 | +M3-XD22-XJ | 13 | | | %I40.0 | -XD12-XG1 | 1 | | | /46.2 |
| | | RDBU | 14 | +M3-XD22-XJ | 14 | | | %I40.1 | -XD12-XG1 | 2 | | | /46.4 |
| | | WHGN | 15 | +M3-XD22-XJ | 15 | | | %I40.2 | -XD12-XG1 | 3 | | | /46.5 |
| | | BNGN | 16 | +M3-XD22-XJ | 16 | | | %I40.3 | -XD12-XG1 | 4 | | | /46.7 |
| | | WHYE | 17 | +M3-XD22-XJ | 17 | | | %I40.4 | -XD12-XG1 | 5 | | | /47.2 |
| | | YEBN | 18 | +M3-XD22-XJ | 18 | | | %I40.5 | -XD12-XG1 | 6 | | | /47.4 |
| | | WHGY | 19 | +M3-XD22-XJ | 19 | | | %I40.6 | -XD12-XG1 | 7 | | | /47.5 |
| | | GYBN | 20 | +M3-XD22-XJ | 20 | | | %I40.7 | -XD12-XG1 | 8 | | | /47.7 |
| | | RD | 21 | +M3-XD22-XJ | 21 | | | | -XD12-XG1 | 24 VB | | | /45.3 |
| | | RD | 22 | +M3-XD22-XJ | 22 | | | | -XD12-XG1 | 24 VB | | | /45.3 |
| | | BU | 23 | +M3-XD22-XJ | 23 | | | | -XD12-XG1 | GND B | | | /45.4 |
| | | BU | 24 | +M3-XD22-XJ | 24 | | | | -XD12-XG1 | GND B | | | /45.4 |

X = Einzelader
X = Single core



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Steckerplan Plug diagram

Stecker plug
=CM1+CM1.M1-XJ11-XS

Miniterminal
Miniterminal

| Funktionstext function text | Type | Kabelname Cable name | -WG12 | Anschluss Connection point | Zielbezeichnung Target designation | Klemmen-Nr. Terminals-No | Brücken Jumper | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | Type | Kabelname Cable name | Seite/Pfad Page/Path |
|--------------------------------|------|-------------------------|--------|-------------------------------|---------------------------------------|-----------------------------|-------------------|-------------|-----------------------------|---------------------------------------|-------------------------------|------|-------------------------|-------------------------|
| | | | | | | | | | | | | | | |
| | | | | 1 | +T1-XJ11 | 1 | | | DIN6 | -XJ11-XS0 | 4:Bit0 | | | /60.1 |
| | | | 2BN | 2 | +T1-XJ11 | 2 | | | %I30.0 | -XJ11-XS1 | 4:Bit1 | | | /60.1 |
| | | | | 3 | +T1-XJ11 | 3 | | | DIN7 | -XJ11-XS2 | 4:Bit2 | | | /60.1 |
| | | | 4YE | 4 | +T1-XJ11 | 4 | | | %I30.1 | -XJ11-XS3 | 4:Bit3 | | | /60.1 |
| | | | | 5 | +T1-XJ11 | 5 | | | DIN8 | -XJ11-XS4 | 4:Bit4 | | | /60.1 |
| | | | 6PK | 6 | +T1-XJ11 | 6 | | | %I30.2 | -XJ11-XS5 | 4:Bit5 | | | /60.1 |
| | | | 7BU | 7 | +T1-XJ11 | 7 | | | | -XJ11-XS6 | 4:Bit6 | | | /60.1 |
| | | | 8RD | 8 | +T1-XJ11 | 8 | | | %I30.3 | -XJ11-XS7 | 4:Bit7 | | | /60.1 |
| | | | 9BK | 9 | +T1-XJ11 | 9 | | | | -XJ11-XS8 | 4:Bit0 | | | /60.1 |
| | | | 10VT | 10 | +T1-XJ11 | 10 | | | | -XJ11-XS9 | 4:Bit1 | | | /60.1 |
| | | | 11GYPK | 11 | +T1-XJ11 | 11 | | | | -XJ11-XS10 | 4:Bit2 | | | /60.1 |
| | | | 12RDBU | 12 | +T1-XJ11 | 12 | | | | -XJ11-XS11 | 4:Bit3 | | | /60.1 |
| | | | | 13 | +T1-XJ11 | 13 | | | | -XJ11-XS1 | 1:+24V | | | /60.1 |
| | | | | 14 | +T1-XJ11 | 14 | | | | -XJ11-XS | 15 | | | /60.1 |
| | | | | 15 | +T1-XJ11 | 15 | | | | -XJ11-XS1 | 3:0V | | | /60.1 |

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X = Einzelader
X = Single core

<05

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| | | |
|--------|-------------|----------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | FFDMT04DE EPL0VZFG7M |



Steckerplan =CM1+CM1.M1-XJ11-XS Plug diagram =CM1+CM1.M1-XJ11-XS

| | | | |
|-----------|----|-------|----------------------------|
| S-Nr. | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| | | + LST | Auswertungen |
| | | | Seite 96 von 124 |

Steckerplan Plug diagram

Diese Zeichnung ist Eigentum der Festo Didactic SE. This Drawing is copyright by Festo Didactic SE

| Funktionstext function text | Type | Kabelname Cable name | Stecker plug =CM1+CM1.M2-XJ21-XS | | | | | | | | | | Type | Kabelname Cable name | Seite/Pfad Page/Path |
|--------------------------------|------|-------------------------|-------------------------------------|---------------------------------------|-----------------------------|-------------------|----------------|-----------------------------|---------------------------------------|-------------------------------|--------|--|------|-------------------------|-------------------------|
| | | | Anschluss Connection point | Zielbezeichnung Target designation | Klemmen-Nr. Terminals-No | Brücken Jumper | Etage level | Geräteanschl. Connection | Zielbezeichnung Target designation | Anschluss Connection point | | | | | |
| | | -WG22 | 1 | +T1-XJ21 | 1 | | | DIN6 | -XJ21-XS0 | | 4:Bit0 | | | /64.1 | |
| | | 2BN | 2 | +T1-XJ21 | 2 | | | | -XJ21-XS1 | | 4:Bit1 | | | /64.1 | |
| | | | 3 | +T1-XJ21 | 3 | | | DIN7 | -XJ21-XS2 | | 4:Bit2 | | | /64.1 | |
| | | 4YE | 4 | +T1-XJ21 | 4 | | | | -XJ21-XS3 | | 4:Bit3 | | | /64.1 | |
| | | | 5 | +T1-XJ21 | 5 | | | DIN8 | -XJ21-XS4 | | 4:Bit4 | | | /64.1 | |
| | | 6PK | 6 | +T1-XJ21 | 6 | | | | -XJ21-XS5 | | 4:Bit5 | | | /64.1 | |
| | | | 7 | +T1-XJ21 | 7 | | | DIN9 | -XJ21-XS6 | | 4:Bit6 | | | /64.1 | |
| | | 8RD | 8 | +T1-XJ21 | 8 | | | | -XJ21-XS7 | | 4:Bit7 | | | /64.1 | |
| | | 9BK | 9 | +T1-XJ21 | 9 | | | | | | | | | /64.1 | |
| | | 10VT | 10 | +T1-XJ21 | 10 | | | | | | | | | /64.1 | |
| | | 11GYPK | 11 | +T1-XJ21 | 11 | | | | | | | | | /64.1 | |
| | | 12RDBU | 12 | +T1-XJ21 | 12 | | | | | | | | | /64.1 | |
| | | | 13 | +T1-XJ21 | 13 | | | | -XJ21-XS1 | | 1:+24V | | | /64.1 | |
| | | | 14 | +T1-XJ21 | 14 | | | | -XJ21-XS | | 15 | | | /64.1 | |
| | | | 15 | +T1-XJ21 | 15 | | | | -XJ21-XS1 | | 3:0V | | | /64.1 | |

X = Einzelader
X = Single core &STK/98>>

<06

| | | |
|--------|-------------|----------------------|
| Datum | 16.03.2022 | Festo Didactic SE |
| Bearb. | Schuhmacher | Rechbergstraße 3 |
| Erst. | Schuhmacher | D-73770 Denkendorf |
| Ze.Nr. | N:FDMR07DE | FFDMT04DE EPL0VZFG7M |



Steckerplan =CM1+CM1.M2-XJ21-XS Plug diagram =CM1+CM1.M2-XJ21-XS

| | | | | |
|-----------|----|-------|----------------------------|----------|
| S-Nr. | | | | |
| PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP | Seite 97 |
| | | + LST | Auswertungen | von 124 |

Stückliste bill of materials

| Bauteil item | Seite Page | Bezeichnung designation | Lieferant supplier | Bestellnummer Order number | Hersteller manufacturer | Eplan-Artikel Eplan Part no. | Menge Quantity | SAP-Nr. SAP-No. | Mechanik |
|--------------|--------------|--------------------------------------------------|--------------------|----------------------------|-------------------------|------------------------------|----------------|-----------------|----------|
| -WG34 | +CM1.M4/74.4 | SysLink-Kabel 2,5m | Festo Didactic | 34031 | Festo Didactic | 34031 | 1 | 34031 | |
| -WG12 | +CM1.M3/66.4 | SysLink-Kabel 5,00m | Festo Didactic | 120868 | Festo Didactic | 120868 | 1 | | |
| +CM1.M1-BG13 | +CM1.M1/60.6 | SIEN-M8NB-PS-S-L m. Stecker | Festo AG | 150395 | Festo AG | 150395 | 1 | 150395 | X |
| +CM1.M2-BG23 | +CM1.M2/64.6 | SIEN-M8NB-PS-S-L m. Stecker | Festo AG | 150395 | Festo AG | 150395 | 1 | 150395 | X |
| +CM1.M1-BG11 | +CM1.M1/60.2 | SIEN-M8NB-PO-S-L m. Stecker | Festo AG | 150399 | Festo AG | 150399 | 1 | 150399 | X |
| +CM1.M1-BG12 | +CM1.M1/60.4 | SIEN-M8NB-PO-S-L m. Stecker | Festo AG | 150399 | Festo AG | 150399 | 1 | 150399 | X |
| +CM1.M2-BG21 | +CM1.M2/64.2 | SIEN-M8NB-PO-S-L m. Stecker | Festo AG | 150399 | Festo AG | 150399 | 1 | 150399 | X |
| +CM1.M2-BG22 | +CM1.M2/64.4 | SIEN-M8NB-PO-S-L m. Stecker | Festo AG | 150399 | Festo AG | 150399 | 1 | 150399 | X |
| +CM1.T1-KF31 | +CM1.T1/17.0 | Steckdosenkabel SIM-M8-4GD-2,5-PU | Festo AG | | Festo AG | 158960 | 1 | 158960 | X |
| +CM1.M4-BG64 | +CM1.M4/75.7 | Empfänger | Festo AG | 165323 | Festo AG | 165323 | 1 | 165323 | X |
| +CM1.M4-BG68 | +CM1.M4/76.7 | Empfänger | Festo AG | 165323 | Festo AG | 165323 | 1 | 165323 | X |
| +CM1.M3-BG35 | +CM1.M3/68.2 | Lichtleitergerät mit Stecker | Festo AG | SOEG-L-Q30-P-A-S-2L | Festo AG | 165327 | 1 | 165327 | X |
| +CM1.M3-BG36 | +CM1.M3/68.4 | Lichtleitergerät mit Stecker | Festo AG | SOEG-L-Q30-P-A-S-2L | Festo AG | 165327 | 1 | 165327 | X |
| +CM1.M3-BG37 | +CM1.M3/68.5 | Lichtleitergerät mit Stecker | Festo AG | SOEG-L-Q30-P-A-S-2L | Festo AG | 165327 | 1 | 165327 | X |
| +CM1.M3-BG38 | +CM1.M3/68.7 | Lichtleitergerät mit Stecker | Festo AG | SOEG-L-Q30-P-A-S-2L | Festo AG | 165327 | 1 | 165327 | X |
| +CM1.M4-BG61 | +CM1.M4/75.2 | Lichtleitergerät mit Stecker | Festo AG | SOEG-L-Q30-P-A-S-2L | Festo AG | 165327 | 1 | 165327 | X |
| +CM1.M4-BG62 | +CM1.M4/75.4 | Lichtleitergerät mit Stecker | Festo AG | SOEG-L-Q30-P-A-S-2L | Festo AG | 165327 | 1 | 165327 | X |
| +CM1.M4-BG63 | +CM1.M4/75.5 | Lichtleitergerät mit Stecker | Festo AG | SOEG-L-Q30-P-A-S-2L | Festo AG | 165327 | 1 | 165327 | X |
| +CM1.M4-BG65 | +CM1.M4/76.2 | Lichtleitergerät mit Stecker | Festo AG | SOEG-L-Q30-P-A-S-2L | Festo AG | 165327 | 1 | 165327 | X |
| +CM1.M4-BG66 | +CM1.M4/76.4 | Lichtleitergerät mit Stecker | Festo AG | SOEG-L-Q30-P-A-S-2L | Festo AG | 165327 | 1 | 165327 | X |
| +CM1.M4-BG67 | +CM1.M4/76.5 | Lichtleitergerät mit Stecker | Festo AG | SOEG-L-Q30-P-A-S-2L | Festo AG | 165327 | 1 | 165327 | X |
| +CM1.M4-PF64 | +CM1.M4/77.7 | Sender | Festo AG | 165353 | Festo AG | 165353 | 1 | 165353 | X |
| +CM1.M4-PF68 | +CM1.M4/78.7 | Sender | Festo AG | 165353 | Festo AG | 165353 | 1 | 165353 | X |
| +CM1.M2-XJ21 | +CM1.M2/64.1 | Multipolverteiler MPV 8x M8 | Festo AG | 177669 | Festo AG | 177669 | 1 | 177669 | X |
| +CM1.M1-XJ11 | +CM1.M1/60.1 | Multipolverteiler MPV 12x M8 | Festo AG | 177670 | Festo AG | 177670 | 1 | 177670 | X |
| -WG12 | +CM1.M1/60.1 | KMPV-SUB-D-15-5 | Festo AG | 177673 | Festo AG | 177673 | 1 | 177673 | X |
| -WG22 | +CM1.M2/64.1 | KMPV-SUB-D-15-5 | Festo AG | 177673 | Festo AG | 177673 | 1 | 177673 | X |
| +CM1.M1-XJ11 | +CM1.M1/60.1 | M8-Stecker schraubbar | Festo AG | | Festo AG | 192009 | 12 | 192009 | X |
| +CM1.M2-XJ21 | +CM1.M2/64.1 | M8-Stecker schraubbar | Festo AG | | Festo AG | 192009 | 8 | 192009 | X |
| +CM1.M3-BG34 | +CM1.M3/67.7 | Näherungsschalter T-Nut, SMT-8M, 0,3m, Schließer | Festo AG | 574334 | Festo AG | 574334 | 1 | 574334 | X |
| +CM1.M1-MA11 | +CM1.M1/58.1 | Servomotor 60M mit Bremse, SingleTurn | Festo AG | 2089732 | Festo AG | 2089732 | 1 | 2089732 | X |
| +CM1.M2-MA21 | +CM1.M2/62.1 | Servomotor 60M mit Bremse, SingleTurn | Festo AG | 2089732 | Festo AG | 2089732 | 1 | 2089732 | X |
| +CM1.K1-XD11 | +CM1.K1/32.0 | Hutschienclip für E/A Terminal | Festo AG | 2435938 | Festo AG | 2435938 | 2 | 2435938 | |
| +CM1.K2-XD12 | +CM1.K2/45.0 | Hutschienclip für E/A Terminal | Festo AG | 2435938 | Festo AG | 2435938 | 2 | 2435938 | |
| +CM1.K1-XD11 | +CM1.K1/32.0 | E/A-Terminal ohne Halter | Festo AG | 2627642 | Festo AG | 2627642 | 1 | 2627642 | |
| +CM1.K2-XD12 | +CM1.K2/45.0 | E/A-Terminal ohne Halter | Festo AG | 2627642 | Festo AG | 2627642 | 1 | 2627642 | |
| +CM1.U1-QB1 | +CM1.T1/12.7 | Zusatzfrontschild für T0 | Eaton | 030170 | Eaton | EATON#030170 | 1 | 8027335 | |
| +CM1.U1-QB1 | +CM1.T1/12.7 | Hauptschalterabdeckung H3-T0 | Eaton | 093828 | Eaton | EATON#093828 | 1 | 8032814 | |
| +CM1.M3-XD22 | +CM1.M3/66.0 | E/A-Terminal neu (mit Gehäuse) | FB-Elektronik | | FB-Elektronik | FB0006 | 1 | | X |
| +CM1.M4-XD21 | +CM1.M4/74.0 | E/A-Terminal neu (mit Gehäuse) | FB-Elektronik | | FB-Elektronik | FB0006 | 1 | | X |
| +CM1.M3-RP1 | +CM1.M3/72.1 | Schalldämpfer | Festo AG | 4645 | Festo AG | FES.4645 | 1 | | X |
| +CM1.M3-RP2 | +CM1.M3/72.1 | Schalldämpfer | Festo AG | 4645 | Festo AG | FES.4645 | 1 | | X |
| +CM1.M3-RP3 | +CM1.M3/72.3 | Schalldämpfer | Festo AG | 4645 | Festo AG | FES.4645 | 1 | | X |
| +CM1.M3-RP4 | +CM1.M3/72.3 | Schalldämpfer | Festo AG | 4645 | Festo AG | FES.4645 | 1 | | X |
| +CM1.M3-MM3 | +CM1.M3/72.4 | Kompaktzylinder | Festo AG | 157212 | Festo AG | FES.157212 | 1 | 157212 | X |
| -WKF80 | +CM1.T1/17.1 | Verbindungsleitung M8-4GD | Festo AG | 158960 | Festo AG | FES.158960 | 1 | | |

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<&STP/97

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| | | | | | | | | | |
|--------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------|-----------|----|-------|----------------------------|----------|
| Datum | 16.03.2022 | Festo Didactic SE | FESTO | Stückliste bill of materials | S-Nr. | | | | |
| Bearb. | Schuhmacher | Rechbergstraße 3 | | | PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP | Seite 98 |
| Erst. | Schuhmacher | D-73770 Denkendorf | | | | | + LST | Auswertungen | von 124 |
| Ze.Nr. | | N:FDMR07DE FFDM0507DE EPL0VZFG7M \\Festo.net\dfs01\NT\Data\EPLAN\DATA_xx\DEI\Projects\Didactic\Products\21 CP2\FB\qx\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk | | | | | | | |

Stückliste bill of materials

| Bauteil item | Seite Page | Bezeichnung designation | Lieferant supplier | Bestellnummer Order number | Hersteller manufacturer | Eplan-Artikel Eplan Part no. | Menge Quantity | SAP-Nr. SAP-No. | Mechanik |
|-------------------|--------------|------------------------------------------|--------------------|----------------------------|-------------------------|------------------------------|----------------|-----------------|----------|
| -WG3 | +CM1.T1/24.1 | Verbindungsleitung M8 4pol. 5m | Festo AG | 158961 | Festo AG | FES.158961 | 1 | 158961 | X |
| -WG4 | +CM1.T1/24.6 | Verbindungsleitung M8 4pol. 5m | Festo AG | 158961 | Festo AG | FES.158961 | 1 | 158961 | X |
| +CM1.M3-RZ1 | +CM1.M3/72.0 | Drossel-Rückschlagventil | Festo AG | 175056 | Festo AG | FES.175056 | 1 | 175056 | X |
| +CM1.M3-RZ2 | +CM1.M3/72.1 | Drossel-Rückschlagventil | Festo AG | 175056 | Festo AG | FES.175056 | 1 | 175056 | X |
| +CM1.M3-RZ3 | +CM1.M3/72.2 | Drossel-Rückschlagventil | Festo AG | 175056 | Festo AG | FES.175056 | 1 | 175056 | X |
| +CM1.M3-RZ4 | +CM1.M3/72.2 | Drossel-Rückschlagventil | Festo AG | 175056 | Festo AG | FES.175056 | 1 | 175056 | X |
| +CM1.M3-RZ5 | +CM1.M3/72.3 | Drossel-Rückschlagventil | Festo AG | 175056 | Festo AG | FES.175056 | 1 | 175056 | X |
| +CM1.M3-RZ6 | +CM1.M3/72.4 | Drossel-Rückschlagventil | Festo AG | 175056 | Festo AG | FES.175056 | 1 | 175056 | X |
| +CM1.M3-MM1 | +CM1.M3/72.1 | Linearantrieb | Festo AG | 187855 | Festo AG | FES.187855 | 1 | | X |
| +CM1.M3-MM2 | +CM1.M3/72.2 | Linearantrieb | Festo AG | 187855 | Festo AG | FES.187855 | 1 | | X |
| +CM1.C1-BG51 | +CM1.M1/60.3 | Reflex-Lichtschanke | Festo AG | 537749 | Festo AG | FES.537749 | 1 | 537749 | X |
| +CM1.C1-BG52 | +CM1.M1/60.5 | Reflex-Lichtschanke | Festo AG | 537749 | Festo AG | FES.537749 | 1 | 537749 | X |
| +CM1.C1-BG53 | +CM1.M1/60.7 | Reflex-Lichtschanke | Festo AG | 537749 | Festo AG | FES.537749 | 1 | 537749 | X |
| +CM1.C1-BG54 | +CM1.M1/60.9 | Reflex-Lichtschanke | Festo AG | 537749 | Festo AG | FES.537749 | 1 | 537749 | X |
| +CM1.M3-BG31 | +CM1.M3/67.2 | Näherungsschalter | Festo AG | 551373 | Festo AG | FES.551373 | 1 | | X |
| +CM1.M3-BG32 | +CM1.M3/67.4 | Näherungsschalter | Festo AG | 551373 | Festo AG | FES.551373 | 1 | | X |
| +CM1.M3-QF1 | +CM1.M3/72.0 | Magnetventil | Festo AG | 574351 | Festo AG | FES.574351 | 1 | | X |
| +CM1.M3-QF1-MB32 | +CM1.M3/69.4 | Magnetventil | Festo AG | 574351 | Festo AG | FES.574351 | 1 | | X |
| +CM1.M3-QF2 | +CM1.M3/72.3 | Magnetventil | Festo AG | 574351 | Festo AG | FES.574351 | 1 | | X |
| +CM1.M3-QF2-MB34 | +CM1.M3/69.7 | Magnetventil | Festo AG | 574351 | Festo AG | FES.574351 | 1 | | X |
| +CM1.T1-RA11 | +CM1.M1/58.2 | Bremswiderstand 500W | Festo AG | 1336611 | Festo AG | FES.1336611 | 1 | 1336611 | |
| +CM1.T1-RA21 | +CM1.M2/62.2 | Bremswiderstand 500W | Festo AG | 1336611 | Festo AG | FES.1336611 | 1 | 1336611 | |
| +CM1.T1-QA11 | +CM1.M1/58.1 | Motorcontroller CMMP | Festo AG | 1501326 | Festo AG | FES.1501326 | 1 | 1501326 | |
| +CM1.T1-QA21 | +CM1.M2/62.1 | Motorcontroller CMMP | Festo AG | 1501326 | Festo AG | FES.1501326 | 1 | 1501326 | |
| +CM1.T1-FZ11 | +CM1.T1/25.0 | Sicherheitsmodul S3 für Servo-Controller | Festo AG | 1501331 | Festo AG | FES.1501331 | 1 | 1501331 | |
| +CM1.T1-FZ21 | +CM1.T1/25.5 | Sicherheitsmodul S3 für Servo-Controller | Festo AG | 1501331 | Festo AG | FES.1501331 | 1 | 1501331 | |
| +CM1.T1-KF11 | +CM1.T1/21.7 | PN-Interface für CMMP | Festo AG | 1911916 | Festo AG | FES.1911916 | 1 | 1911916 | |
| +CM1.T1-KF21 | +CM1.T1/21.7 | PN-Interface für CMMP | Festo AG | 1911916 | Festo AG | FES.1911916 | 1 | 1911916 | |
| +CM1.T1-TB1 | +CM1.T1/14.0 | Netzteil | Festo AG | 2247682 | Festo AG | FES.2247682 | 1 | 2247682 | |
| -WG21 | +CM1.M2/62.6 | Encoderleitung 5m | Festo AG | 8003762 NEBM-M12G8- | Festo AG | FES.8003762 | 1 | 8003762 | |
| -WD21 | +CM1.M2/62.2 | Motorleitung 5m | Festo AG | 8003770 | Festo AG | FES.8003770 | 1 | 8003770 | |
| -WD11 | +CM1.M1/58.2 | Motorleitung 2,5m | Festo AG | 8004662 | Festo AG | FES.8004662 | 1 | 8004662 | |
| -WG11 | +CM1.M1/58.6 | Encoderleitung 2,5m | Festo AG | 8004664 NEBM-M12G8- | Festo AG | FES.8004664 | 1 | | |
| +CM1.T1-XJ4 | +CM1.T1/13.9 | Schuko-Steckdose Hutschiene Hager SN016 | Hagemeyer | SN016 / Hag-Nr. 205524 | Hagemeyer | HAG#2055242 | 1 | 8027421 | |
| +CM1.T1-QA1 | +CM1.T1/19.1 | Motorsteuerung M-MZS-4-30 | Kaleja | 06.05.020 | Kaleja | KALE#06.05.020 | 1 | 8027603 | |
| +CM1.T1-QA2 | +CM1.T1/19.4 | Motorsteuerung M-MZS-4-30 | Kaleja | 06.05.020 | Kaleja | KALE#06.05.020 | 1 | 8027603 | |
| +CM1.T1-QA3 | +CM1.T1/19.7 | Motorsteuerung M-MZS-4-30 | Kaleja | 06.05.020 | Kaleja | KALE#06.05.020 | 1 | 8027603 | |
| +CM1.T1-QA1 | +CM1.T1/19.1 | Hutschiencclip für Motorregler | Kaleja | 09.01.023 | Kaleja | KALE#09.01.023 | 1 | 8027604 | |
| +CM1.T1-QA2 | +CM1.T1/19.4 | Hutschiencclip für Motorregler | Kaleja | 09.01.023 | Kaleja | KALE#09.01.023 | 1 | 8027604 | |
| +CM1.T1-QA3 | +CM1.T1/19.7 | Hutschiencclip für Motorregler | Kaleja | 09.01.023 | Kaleja | KALE#09.01.023 | 1 | 8027604 | |
| +CM1.M4-F2-FQ5 | +CM1.M4/79.1 | Lichtvorhang Fingersicher | Keyence | GL-R23F | Keyence | KEY.GL-R23F | 1 | 8162244 | |
| +CM1.M4-F2-FQ6 | +CM1.M4/79.6 | Lichtvorhang Fingersicher | Keyence | GL-R23F | Keyence | KEY.GL-R23F | 1 | 8162244 | |
| +CM1.M4.M4-F2-FQ5 | +CM1.T1/8.6 | Lichtvorhang Fingersicher | Keyence | GL-R23F | Keyence | KEY.GL-R23F | 1 | 8162244 | |
| +CM1.M4.M4-F2-FQ6 | +CM1.T1/8.6 | Lichtvorhang Fingersicher | Keyence | GL-R23F | Keyence | KEY.GL-R23F | 1 | 8162244 | |
| +CM1.T1-F2-KF5 | +CM1.T1/26.0 | Kabel für Lichtvorhang | Keyence | GL-RPT5PM | Keyence | KEY.GL-RPT5PM | 1 | 8162243 | |
| +CM1.T1-F2-KF5 | +CM1.T1/26.0 | Sicherheitsrelais für Lichtvorhang | Keyence | GL-T11R | Keyence | KEY.GL-T11R | 1 | 8162242 | |

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Stückliste bill of materials

| Bauteil item | Seite Page | Bezeichnung designation | Lieferant supplier | Bestellnummer Order number | Hersteller manufacturer | Eplan-Artikel Eplan Part no. | Menge Quantity | SAP-Nr. SAP-No. | Mechanik |
|--------------|--------------|---------------------------------------------------|---------------------|----------------------------|-------------------------|------------------------------|----------------|-----------------|----------|
| -WG11 | +CM1.M1/59.3 | UNITRONIC LiYY 12x0,25 | Lappkabel | 0028312 | Lappkabel | LAPP.0028312 | 1 | | |
| -WG21 | +CM1.M2/63.3 | UNITRONIC LiYY 12x0,25 | Lappkabel | 0028312 | Lappkabel | LAPP.0028312 | 1 | | |
| -WD1 | +CM1.M3/71.2 | UNITRONIC LiYY 2x0,75 | Lappkabel | 0028602 | Lappkabel | LAPP.0028602 | 1 | | |
| -WD31 | +CM1.M3/71.2 | UNITRONIC LiYY 4x0,75 | Lappkabel | 0028604 | Lappkabel | LAPP.0028604 | 1 | 8027428 | |
| -WG1 | +CM1.T1/23.1 | UNITRONIC LiYY 10x0,75 | Lappkabel | 0028610 | Lappkabel | LAPP.0028610 | 1 | 8027431 | |
| -WG2 | +CM1.T1/23.6 | UNITRONIC LiYY 10x0,75 | Lappkabel | 0028610 | Lappkabel | LAPP.0028610 | 1 | 8027431 | |
| +CM1.U1-FQ0 | +CM1.K2/41.2 | Befestigungsadapter M22-A | Eaton | 216374 | Eaton | MOE#216374 | 1 | 676706 | |
| +CM1.U1-SF1 | +CM1.K2/41.5 | Befestigungsadapter M22-A | Eaton | 216374 | Eaton | MOE#216374 | 1 | 676706 | |
| +CM1.U1-SF4 | +CM1.K2/41.4 | Befestigungsadapter M22-A | Eaton | 216374 | Eaton | MOE#216374 | 1 | 676706 | |
| +CM1.U1-SF1 | +CM1.K2/41.5 | Schildträger M22S-ST-X | Eaton | 216392 | Eaton | MOE#216392 | 1 | 8027327 | |
| +CM1.U1-SF4 | +CM1.K2/41.4 | Schildträger M22S-ST-X | Eaton | 216392 | Eaton | MOE#216392 | 1 | 8027327 | |
| +CM1.U1-FQ0 | +CM1.K2/41.2 | Not-Aus-Schild M22-XZK-GB99 | Eaton | 216472 | Eaton | MOE#216472 | 1 | 8027339 | |
| +CM1.U1-SF1 | +CM1.K2/41.5 | Leuchtdrucktaste, flach, blau, tastend | Eaton | 216931 | Eaton | MOE.M22-DL-B | 1 | 8049607 | |
| +CM1.U1-FQ0 | +CM1.K2/41.2 | Kontaktelement, 1Ö, Frontbefestigung | Eaton | 216378 | Eaton | MOE.M22-K01 | 2 | 676707 | |
| +CM1.U1-SF4 | +CM1.K2/41.4 | Kontaktelement, 1Ö, Frontbefestigung | Eaton | 216378 | Eaton | MOE.M22-K01 | 1 | 676707 | |
| +CM1.U1-SF1 | +CM1.K2/41.5 | Kontaktelement, 1S, Frontbefestigung | Eaton | 216376 | Eaton | MOE.M22-K10 | 1 | 676708 | |
| +CM1.U1-SF4 | +CM1.K2/41.4 | Kontaktelement, 1S, Frontbefestigung | Eaton | 216376 | Eaton | MOE.M22-K10 | 1 | 676708 | |
| +CM1.U1-SF1 | +CM1.K2/41.5 | Element LED, blau, Frontbefestigung, 12-30V AC/DC | Eaton | 218057 | Eaton | MOE.M22-LED-B | 1 | 8027332 | |
| +CM1.U1-FQ0 | +CM1.K2/41.2 | NOT-AUS-Taste, unbeleuchtet | Eaton | 216876 | Eaton | MOE.M22-PV | 1 | 8027318 | |
| +CM1.U1-SF4 | +CM1.K2/41.4 | Schlüsseltaste, 2 Stellungen, rastend | Eaton | 216889 | Eaton | MOE.M22S-WRS | 1 | 8027334 | |
| +CM1.U1-QB1 | +CM1.T1/12.7 | Hauptschalter Einbau | Eaton | 041246 | Eaton | MOE.T0-2-1/EA/SVB-SW | 1 | 8027336 | |
| +CM1.T1-FC2 | +CM1.T1/15.0 | MICO 4.6 / 24VDC/4*1/2/4/6A | Murrelektronik | 9000-41034-0100600 | Murrelektronik | MURR.9000-41034-0100600 | 1 | 8037189 | |
| +CM1.M3-MA1 | +CM1.M3/71.3 | Stirnradmotor | Ott Antriebstechnik | XDP037007-01 | Ott Antriebstechnik | OTT#XDP037007-01 | 1 | | X |
| +CM1.M4-MA2 | +CM1.M4/77.2 | Stirnradmotor | Ott Antriebstechnik | XDP037007-01 | Ott Antriebstechnik | OTT#XDP037007-01 | 1 | | X |
| +CM1.M4-MA3 | +CM1.M4/78.2 | Stirnradmotor | Ott Antriebstechnik | XDP037007-01 | Ott Antriebstechnik | OTT#XDP037007-01 | 1 | | X |
| +CM1.C1-FQ3 | +CM1.T1/24.1 | PSEN ma1.4p-52 | Pilz | 506335 | Pilz | PILZ#506335 | 1 | 8027701 | X |
| +CM1.C1-FQ4 | +CM1.T1/24.6 | PSEN ma1.4p-52 | Pilz | 506335 | Pilz | PILZ#506335 | 1 | 8027701 | X |
| +CM1.T1-XZ2 | +CM1.T1/20.2 | Platine Not-Aus-Verschaltung | Festo Didactic | 8032429 | Festo Didactic | Platine002 | 1 | 8032429 | |
| +CM1.U1-MA4 | +CM1.T1/16.1 | Filterlüfter 55 m3/h, 24 V DC | Rittal | 3238124 | Rittal | RIT.3238124 | 1 | | |
| +CM1.U1-MA4 | +CM1.T1/16.1 | Austrittsfilter für SK 3238.1xx RAL 7035 | Rittal | 3238200 | Rittal | RIT.3238200 | 1 | | |
| +CM1.U1-XJ5 | +CM1.T1/21.2 | RJ45-Buchse mit 2. Buchse rückseitig | | RRJ_RJ45_STB | | SCHL#RRJ_RJ45_STB | 1 | 8060076 | |
| +CM1.C1-FQ1 | +CM1.T1/23.1 | Türschalter mit el. Zuhaltung | Siemens | 3SE5312-1SB11 | Siemens | SIE#3SE5312-1SB11 | 1 | | X |
| +CM1.C1-FQ2 | +CM1.T1/23.6 | Türschalter mit el. Zuhaltung | Siemens | 3SE5312-1SB11 | Siemens | SIE#3SE5312-1SB11 | 1 | | X |
| +CM1.T1-FZ1 | +CM1.T1/20.7 | Sirius Sicherheitsschaltgerät | Siemens | 3SK1111-2AB30 | Siemens | SIE#3SK1111-2AB30 | 1 | 8037190 | |
| +CM1.T1-KF3 | +CM1.T1/22.2 | ANSCHLUSS-BOX ADVANCED | Siemens | 6AV2125-2AE23-0AX0 | Siemens | SIE#6AV2125-2AE23-0AX0 | 0 | | |
| +CM1.U1-PH1 | +CM1.T1/22.0 | Mobile Panel KTP700F | Siemens | 6AV2125-2GB23-0AX0 | Siemens | SIE#6AV2125-2GB23-0AX0 | 0 | | |
| +CM1.U1-PH1 | +CM1.T1/22.0 | Anschlusskabel für KTP700(F) Mobile 5m | Siemens | 6AV2181-5AF05-0AX0 | Siemens | SIE#6AV2181-5AF05-0AX0 | 0 | | |
| +CM1.U1-PH1 | +CM1.T1/22.0 | Wandhalterung für Mobile Panel 400/700/900 | Siemens | 6AV2181-5AG80-0AX0 | Siemens | SIE#6AV2181-5AG80-0AX0 | 0 | | |
| +CM1.K1-KF2 | +CM1.K1/27.2 | ET200SP DI 8x24VDC HF | Siemens | 6ES7131-6BF00-0CA0 | Siemens | SIE#6ES7131-6BF00-0CA0 | 0 | 8047787 | |
| +CM1.K1-KF3 | +CM1.K1/27.3 | ET200SP DI 8x24VDC HF | Siemens | 6ES7131-6BF00-0CA0 | Siemens | SIE#6ES7131-6BF00-0CA0 | 0 | 8047787 | |
| +CM1.K1-KF4 | +CM1.K1/27.4 | ET200SP DQ 8x24VDC/0.5A HF | Siemens | 6ES7132-6BF00-0CA0 | Siemens | SIE#6ES7132-6BF00-0CA0 | 0 | 8047788 | |
| +CM1.K1-KF5 | +CM1.K1/27.5 | ET200SP DQ 8x24VDC/0.5A HF | Siemens | 6ES7132-6BF00-0CA0 | Siemens | SIE#6ES7132-6BF00-0CA0 | 0 | 8047788 | |
| +CM1.K2-KF12 | +CM1.K2/38.1 | ET 200SP F-DI 8X24VDC HF | Siemens | 6ES7136-6BA00-0CA0 | Siemens | SIE#6ES7136-6BA00-0CA0 | 0 | 8047800 | |
| +CM1.K2-KF13 | +CM1.K2/38.2 | ET 200SP F-DI 8X24VDC HF | Siemens | 6ES7136-6BA00-0CA0 | Siemens | SIE#6ES7136-6BA00-0CA0 | 0 | 8047800 | |
| +CM1.K2-KF14 | +CM1.K2/38.3 | ET 200SP F-DI 8X24VDC HF | Siemens | 6ES7136-6BA00-0CA0 | Siemens | SIE#6ES7136-6BA00-0CA0 | 0 | 8047800 | |
| +CM1.K2-KF15 | +CM1.K2/38.4 | ET 200SP F-DI 8X24VDC HF | Siemens | 6ES7136-6BA00-0CA0 | Siemens | SIE#6ES7136-6BA00-0CA0 | 0 | 8047800 | |

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Stückliste bill of materials

| Bauteil item | Seite Page | Bezeichnung designation | Lieferant supplier | Bestellnummer Order number | Hersteller manufacturer | Eplan-Artikel Eplan Part no. | Menge Quantity | SAP-Nr. SAP-No. | Mechanik |
|--------------|----------------------|--------------------------------------------|--------------------|----------------------------|-------------------------|------------------------------|----------------|-----------------|----------|
| +CM1.K2-KF16 | +CM1.K2/38.4 | ET 200SP, F-DQ 4XDC | Siemens | 6ES7136-6DB00-0CA0 | Siemens | SIE#6ES7136-6DB00-0CA0 | | 8047801 | |
| +CM1.K2-KF17 | +CM1.K2/38.5 | ET200SP Digitales F-Ausgangsmodul Relais | Siemens | 6ES7136-6RA00-0BF0 | Siemens | SIE#6ES7136-6RA00-0BF0 | | 8047802 | |
| +CM1.K2-KF18 | +CM1.K2/38.6 | ET200SP Digitales F-Ausgangsmodul Relais | Siemens | 6ES7136-6RA00-0BF0 | Siemens | SIE#6ES7136-6RA00-0BF0 | | 8047802 | |
| +CM1.K2-KF19 | +CM1.K2/38.7 | ET200SP Digitales F-Ausgangsmodul Relais | Siemens | 6ES7136-6RA00-0BF0 | Siemens | SIE#6ES7136-6RA00-0BF0 | | 8047802 | |
| +CM1.K2-KF20 | +CM1.K2/38.8 | ET200SP Digitales F-Ausgangsmodul Relais | Siemens | 6ES7136-6RA00-0BF0 | Siemens | SIE#6ES7136-6RA00-0BF0 | | 8047802 | |
| +CM1.K2-KF11 | +CM1.K2/38.0 | ET200SP PN-Device IM155-6 HF | Siemens | 6ES7155-6AU00-0CN0 | Siemens | SIE#6ES7155-6AU00-0CN0 | | | |
| +CM1.K1-KF1 | +CM1.K1/27.0 | ET200SP Busadapter BA 2XRJ45 | Siemens | 6ES7193-6AR00-0AA0 | Siemens | SIE#6ES7193-6AR00-0AA0 | | | |
| +CM1.K2-KF11 | +CM1.K2/38.0 | ET200SP Busadapter BA 2XRJ45 | Siemens | 6ES7193-6AR00-0AA0 | Siemens | SIE#6ES7193-6AR00-0AA0 | | | |
| +CM1.K2-KF13 | +CM1.K2/38.2 | ET200SP BaseUnit 16IO Gebrückt | Siemens | 6ES7193-6BP00-0BA0 | Siemens | SIE#6ES7193-6BP00-0BA0 | | 8037254 | |
| +CM1.K2-KF14 | +CM1.K2/38.3 | ET200SP BaseUnit 16IO Gebrückt | Siemens | 6ES7193-6BP00-0BA0 | Siemens | SIE#6ES7193-6BP00-0BA0 | | 8037254 | |
| +CM1.K2-KF15 | +CM1.K2/38.4 | ET200SP BaseUnit 16IO Gebrückt | Siemens | 6ES7193-6BP00-0BA0 | Siemens | SIE#6ES7193-6BP00-0BA0 | | 8037254 | |
| +CM1.K1-KF2 | +CM1.K1/27.2 | ET200SP BaseUnit 16IO Potentialtrennung | Siemens | 6ES7193-6BP00-0DA0 | Siemens | SIE#6ES7193-6BP00-0DA0 | | 8037253 | |
| +CM1.K1-KF3 | +CM1.K1/27.3 | ET200SP BaseUnit 16IO Potentialtrennung | Siemens | 6ES7193-6BP00-0DA0 | Siemens | SIE#6ES7193-6BP00-0DA0 | | 8037253 | |
| +CM1.K1-KF4 | +CM1.K1/27.4 | ET200SP BaseUnit 16IO Potentialtrennung | Siemens | 6ES7193-6BP00-0DA0 | Siemens | SIE#6ES7193-6BP00-0DA0 | | 8037253 | |
| +CM1.K1-KF5 | +CM1.K1/27.5 | ET200SP BaseUnit 16IO Potentialtrennung | Siemens | 6ES7193-6BP00-0DA0 | Siemens | SIE#6ES7193-6BP00-0DA0 | | 8037253 | |
| +CM1.K2-KF12 | +CM1.K2/38.1 | ET200SP BaseUnit 16IO Potentialtrennung | Siemens | 6ES7193-6BP00-0DA0 | Siemens | SIE#6ES7193-6BP00-0DA0 | | 8037253 | |
| +CM1.K2-KF16 | +CM1.K2/38.4 | ET200SP BaseUnit 16IO Potentialtrennung | Siemens | 6ES7193-6BP00-0DA0 | Siemens | SIE#6ES7193-6BP00-0DA0 | | 8037253 | |
| +CM1.K2-KF17 | +CM1.K2/38.5 | ET200SP BaseUnit F0: BU20-P8+A4+0B | Siemens | 6ES7193-6BP20-0BF0 | Siemens | SIE#6ES7193-6BP20-0BF0 | | 8047803 | |
| +CM1.K2-KF18 | +CM1.K2/38.6 | ET200SP BaseUnit F0: BU20-P8+A4+0B | Siemens | 6ES7193-6BP20-0BF0 | Siemens | SIE#6ES7193-6BP20-0BF0 | | 8047803 | |
| +CM1.K2-KF19 | +CM1.K2/38.7 | ET200SP BaseUnit F0: BU20-P8+A4+0B | Siemens | 6ES7193-6BP20-0BF0 | Siemens | SIE#6ES7193-6BP20-0BF0 | | 8047803 | |
| +CM1.K2-KF20 | +CM1.K2/38.8 | ET200SP BaseUnit F0: BU20-P8+A4+0B | Siemens | 6ES7193-6BP20-0BF0 | Siemens | SIE#6ES7193-6BP20-0BF0 | | 8047803 | |
| +CM1.K1-KF1 | +CM1.K1/27.0 | ET200SP Trainerpack CPU1512SP-F | Siemens | 6ES7512-1SK00-4AB1 | Siemens | SIE#6ES7512-1SK00-4AB1 | | | |
| +CM1.K1-KF1 | +CM1.K1/27.0 | ET200SP CPU 1512SP F-1 PN | Siemens | 6ES7512-1SK01-0AB0 | Siemens | SIE#6ES7512-1SK01-0AB0 | | | |
| +CM1.K1-KF1 | +CM1.K1/27.0 | S7 Micro Memory Card 4 MBYTE | Siemens | 6ES7954-8LC02-0AA0 | Siemens | SIE#6ES7954-8LC02-0AA0 | | 8043686 | |
| +CM1.T1-XF1 | +CM1.T1/21.3 | Scalance XB008 | Siemens | 6GK5008-0BA00-1AB2 | Siemens | SIE#6GK5008-0BA00-1AB2 | | 8032088 | |
| +CM1.T1-FB1 | +CM1.T1/12.7 | FI-Schutzschalter 30mA, 2pol 25A, Typ B | Siemens | 5SV3322-4 | Siemens | SIE.5SV3322-4 | 1 | 8106309 | |
| +CM1.T1-FC1 | +CM1.T1/12.7 | LS-SCHALTER 10KA 2POL C10 | Siemens | 5SY4210-7 | Siemens | SIE.5SY4210-7 | 1 | 8106307 | |
| +CM1.T1-FC1 | +CM1.T1/9.2 | Leitungsschutzschalter C-10A 2polig | Siemens | 5SY6210-7 | Siemens | SIE.5SY6210-7 | 1 | 8027757 | |
| +CM1.M3-BG33 | +CM1.M3/67.5 | Ultraschallsensor M18 | Sensopart | 690-51541 | Sensopart | SPT#690-51541 | 1 | | X |
| +CM1.T1 | +CM1.T1/9.1;+CM1.T1/ | Kabelkanal HxB 85x45x2000 | Löffelhardt | BA68004007030B | Tehalit | TEH#BA68004007030B | 8 | 8027481 | |
| -WTF1.1 | +CM1.T1/18.2 | Leitung M12 für RFID l=2m | Turck | 6699200 | Turck | TUR#6699200 | 1 | 8027788 | |
| -WTF1.2 | +CM1.T1/18.2 | Leitung M12 für RFID l=2m | Turck | 6699200 | Turck | TUR#6699200 | 1 | 8027788 | |
| -WTF2.1 | +CM1.T1/18.5 | Leitung M12 für RFID l=2m | Turck | 6699200 | Turck | TUR#6699200 | 1 | 8027788 | |
| -WTF2.2 | +CM1.T1/18.5 | Leitung M12 für RFID l=5m | Turck | 6699201 | Turck | TUR#6699201 | 1 | 8027792 | |
| +CM1.T1-KF31 | +CM1.T1/17.0 | TBEN-S2-2RFID-4DXP Ethernet-Interface neu | Turck | 6814029 | Turck | TUR#6814029 | 1 | 4991096 | |
| +CM1.T1-KF31 | +CM1.T1/17.0 | Leitung für Industrial Ethernet M8/RJ45 2m | Turck | 6933005 | Turck | TUR#6933005 | 1 | 8071261 | |
| +CM1.M3-TF2 | +CM1.T1/18.5 | TN-CK40-H11147 Lese-Kopf 40x40 | Turck | 7030006 | Turck | TUR#7030006 | 1 | 8027787 | X |
| +CM1.M4-TF1 | +CM1.T1/18.2 | TN-CK40-H11147 Lese-Kopf 40x40 | Turck | 7030006 | Turck | TUR#7030006 | 1 | 8027787 | X |
| +CM1.T1-XD1 | +CM1.T1/11.0 | Endklammer | Wago | 249-116 | Wago | WAGO#249-116 | 2 | 757338 | |
| +CM1.T1-XD2 | +CM1.T1/11.0 | Endklammer | Wago | 249-116 | Wago | WAGO#249-116 | 2 | 757338 | |
| +CM1.T1-XG1 | +CM1.T1/11.0 | Endklammer | Wago | 249-116 | Wago | WAGO#249-116 | 2 | 757338 | |
| +CM1.M3-XD3 | +CM1.M3/71.3;+CM1.T | Endklammer | Wago | 249-116 | Wago | WAGO#249-116 | 4 | 757338 | |
| +CM1.T1-XD1 | +CM1.T1/11.0 | Gruppenschildträger | Wago | 249-119 | Wago | WAGO#249-119 | 1 | 8027831 | |
| +CM1.T1-XD2 | +CM1.T1/11.0 | Gruppenschildträger | Wago | 249-119 | Wago | WAGO#249-119 | 1 | 8027831 | |
| +CM1.T1-XG1 | +CM1.T1/11.0 | Gruppenschildträger | Wago | 249-119 | Wago | WAGO#249-119 | 1 | 8027831 | |
| +CM1.M3-XD3 | +CM1.T1/11.0 | Gruppenschildträger | Wago | 249-119 | Wago | WAGO#249-119 | 1 | 8027831 | |

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| Bauteil item | Seite Page | Bezeichnung designation | Lieferant supplier | Bestellnummer Order number | Hersteller manufacturer | Eplan-Artikel Eplan Part no. | Menge Quantity | SAP-Nr. SAP-No. | Mechanik |
|--------------|----------------------|--------------------------------------------|--------------------|----------------------------|-------------------------|------------------------------|----------------|-----------------|----------|
| +CM1.T1-XD1 | +CM1.T1/11.0 | Brücke 2-fach für 2,5 mm² | Wago | 2002-402 | Wago | WAGO#2002-402 | 6 | 721958 | |
| +CM1.T1-XG1 | +CM1.T1/11.0 | Brücke 2-fach für 2,5 mm² | Wago | 2002-402 | Wago | WAGO#2002-402 | 4 | 721958 | |
| +CM1.T1-XD2 | +CM1.T1/11.0 | Brücke 4-fach für 2,5 mm² | Wago | 2002-404 | Wago | WAGO#2002-404 | 5 | 8027825 | |
| +CM1.T1-XG1 | +CM1.T1/11.0 | Brücke 4-fach für 2,5 mm² | Wago | 2002-404 | Wago | WAGO#2002-404 | 2 | 8027825 | |
| +CM1.T1-XD1 | +CM1.T1/12.2...+CM1. | Reihenklemme 4x2,5 mm², grau | Wago | 2002-1401 | Wago | WAGO#2002-1401 | 12 | 753905 | |
| +CM1.T1-XD2 | +CM1.T1/15.2...+CM1. | Reihenklemme 4x2,5 mm², grau | Wago | 2002-1401 | Wago | WAGO#2002-1401 | 8 | 753905 | |
| +CM1.M3-XD3 | +CM1.M3/71.3 | Reihenklemme 4x2,5 mm², grau | Wago | 2002-1401 | Wago | WAGO#2002-1401 | 2 | 753905 | |
| +CM1.T1-XD2 | +CM1.T1/15.1;+CM1.T | Reihenklemme 4x2,5 mm², orange | Wago | 2002-1402 | Wago | WAGO#2002-1402 | 4 | 8027815 | |
| +CM1.T1-XD2 | +CM1.T1/15.8;+CM1.T | Reihenklemme 4x2,5 mm², blau | Wago | 2002-1404 | Wago | WAGO#2002-1404 | 6 | 757336 | |
| +CM1.T1-XD1 | +CM1.T1/12.6 | Schutzleiterklemme 4x2,5 mm² | Wago | 2002-1407 | Wago | WAGO#2002-1407 | 1 | 753904 | |
| +CM1.T1-XD1 | +CM1.T1/11.0 | Abschlussplatte für 4fach grau | Wago | 2002-1491 | Wago | WAGO#2002-1491 | 1 | 757337 | |
| +CM1.T1-XD2 | +CM1.T1/11.0 | Abschlussplatte für 4fach grau | Wago | 2002-1491 | Wago | WAGO#2002-1491 | 1 | 757337 | |
| +CM1.T1-XG1 | +CM1.T1/11.0 | Abschlussplatte für 4fach grau | Wago | 2002-1491 | Wago | WAGO#2002-1491 | 1 | 757337 | |
| +CM1.M3-XD3 | +CM1.T1/11.0 | Abschlussplatte für 4fach grau | Wago | 2002-1491 | Wago | WAGO#2002-1491 | 1 | 757337 | |
| +CM1.T1-XTR | +CM1.T1/14.1 | 2-Leiter-Trenn- und Messklemme, grau | Wago | 2002-1671 | Wago | WAGO#2002-1671 | 1 | 8027823 | |
| +CM1.T1-XTR | +CM1.T1/14.1 | Abschlussplatte für Trenn- und Messklemme | Wago | 2002-1691 | Wago | WAGO#2002-1691 | 1 | 8027824 | |
| +CM1.T1-XD1 | +CM1.T1/13.7;+CM1.T | Schutzleiterklemme 2x10 mm² | Wago | 2010-1207 | Wago | WAGO#2010-1207 | 4 | 8027817 | |
| +CM1.T1-XJ5 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Anfang, grau | Wago | 2022-161 | Wago | WAGO#2022-161 | 1 | 8027843 | |
| +CM1.T1-XJ6 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Anfang, grau | Wago | 2022-161 | Wago | WAGO#2022-161 | 1 | 8027843 | |
| +CM1.T1-XJ7 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Anfang, grau | Wago | 2022-161 | Wago | WAGO#2022-161 | 1 | 8027843 | |
| +CM1.T1-XJ8 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Anfang, grau | Wago | 2022-161 | Wago | WAGO#2022-161 | 1 | 8027843 | |
| +CM1.T1-XJ11 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Anfang, grau | Wago | 2022-161 | Wago | WAGO#2022-161 | 1 | 8027843 | |
| +CM1.T1-XJ12 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Anfang, grau | Wago | 2022-161 | Wago | WAGO#2022-161 | 1 | 8027843 | |
| +CM1.T1-XJ21 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Anfang, grau | Wago | 2022-161 | Wago | WAGO#2022-161 | 1 | 8027843 | |
| +CM1.T1-XJ22 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Anfang, grau | Wago | 2022-161 | Wago | WAGO#2022-161 | 1 | 8027843 | |
| +CM1.T1-XJ5 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Mitte, grau | Wago | 2022-171 | Wago | WAGO#2022-171 | 6 | 8027844 | |
| +CM1.T1-XJ6 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Mitte, grau | Wago | 2022-171 | Wago | WAGO#2022-171 | 6 | 8027844 | |
| +CM1.T1-XJ7 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Mitte, grau | Wago | 2022-171 | Wago | WAGO#2022-171 | 2 | 8027844 | |
| +CM1.T1-XJ8 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Mitte, grau | Wago | 2022-171 | Wago | WAGO#2022-171 | 2 | 8027844 | |
| +CM1.T1-XJ11 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Mitte, grau | Wago | 2022-171 | Wago | WAGO#2022-171 | 13 | 8027844 | |
| +CM1.T1-XJ12 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Mitte, grau | Wago | 2022-171 | Wago | WAGO#2022-171 | 2 | 8027844 | |
| +CM1.T1-XJ21 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Mitte, grau | Wago | 2022-171 | Wago | WAGO#2022-171 | 13 | 8027844 | |
| +CM1.T1-XJ22 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Mitte, grau | Wago | 2022-171 | Wago | WAGO#2022-171 | 2 | 8027844 | |
| +CM1.T1-XJ5 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Ende, grau | Wago | 2022-181 | Wago | WAGO#2022-181 | 1 | 8029334 | |
| +CM1.T1-XJ6 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Ende, grau | Wago | 2022-181 | Wago | WAGO#2022-181 | 1 | 8029334 | |
| +CM1.T1-XJ7 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Ende, grau | Wago | 2022-181 | Wago | WAGO#2022-181 | 1 | 8029334 | |
| +CM1.T1-XJ8 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Ende, grau | Wago | 2022-181 | Wago | WAGO#2022-181 | 1 | 8029334 | |
| +CM1.T1-XJ11 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Ende, grau | Wago | 2022-181 | Wago | WAGO#2022-181 | 1 | 8029334 | |
| +CM1.T1-XJ12 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Ende, grau | Wago | 2022-181 | Wago | WAGO#2022-181 | 1 | 8029334 | |
| +CM1.T1-XJ21 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Ende, grau | Wago | 2022-181 | Wago | WAGO#2022-181 | 1 | 8029334 | |
| +CM1.T1-XJ22 | +CM1.T1/11.0 | X-Com-S steckbare Federleiste Ende, grau | Wago | 2022-181 | Wago | WAGO#2022-181 | 1 | 8029334 | |
| +CM1.T1-XJ5 | +CM1.T1/23.1...+CM1. | X-Com-S-Klemme 2-Leiter + 1-Pin grau | Wago | 2022-1301 | Wago | WAGO#2022-1301 | 8 | 8027839 | |
| +CM1.T1-XJ6 | +CM1.T1/23.6...+CM1. | X-Com-S-Klemme 2-Leiter + 1-Pin grau | Wago | 2022-1301 | Wago | WAGO#2022-1301 | 8 | 8027839 | |
| +CM1.T1-XJ7 | +CM1.T1/24.1;+CM1.T | X-Com-S-Klemme 2-Leiter + 1-Pin grau | Wago | 2022-1301 | Wago | WAGO#2022-1301 | 4 | 8027839 | |
| +CM1.T1-XJ8 | +CM1.T1/24.6;+CM1.T | X-Com-S-Klemme 2-Leiter + 1-Pin grau | Wago | 2022-1301 | Wago | WAGO#2022-1301 | 4 | 8027839 | |
| +CM1.T1-XJ11 | +CM1.M1/59.1...+CM1. | X-Com-S-Klemme 2-Leiter + 1-Pin grau | Wago | 2022-1301 | Wago | WAGO#2022-1301 | 15 | 8027839 | |

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SPS-Diagramm PLC diagram

| SPS ET200SP | | SPS-Karte =CM1+CM1.T1-KF31 | | | Modul | |
|---------------|-------------------------------|--------------------------------------------|-----------------------|----------------------------|------------------|--------------------------------|
| Seite Page | Anschluss Connection point | Funktionsdefinition function definition | Datentyp data type | SPS-Adresse PLC address | Symbol symbol | Funktionstext function text |
| /17.4 | 4 Bit 0 | SPS-Anschluss, DE | BOOL | I5.0 | | Reserve Reserve |
| /17.5 | 2 Bit 1 | SPS-Anschluss, DE | BOOL | I5.1 | | = |
| /17.8 | 4 Bit 2 | SPS-Anschluss, DE | BOOL | I5.2 | | = |
| /17.8 | 2 Bit 3 | SPS-Anschluss, DE | BOOL | I5.3 | | = |

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SPS-Diagramm PLC diagram

| SPS CMMP_X | | SPS-Karte =CM1+CM1.T1-QA11 Rack | | | | Modul |
|---------------|-------------------------------|--------------------------------------------|-----------------------|----------------------------|------------------|-------------------------------------------|
| Seite Page | Anschluss Connection point | Funktionsdefinition function definition | Datentyp data type | SPS-Adresse PLC address | Symbol symbol | Funktionstext function text |
| +.M1/59.3 | 19 | SPS-Anschluss, DE | BOOL | DIN0 | +CM1-QA11-X1:0 | Position Bit 0 Position Bit 0 |
| +.M1/59.3 | 7 | SPS-Anschluss, DE | BOOL | DIN1 | +CM1-QA11-X1:1 | Position Bit 1 Position Bit 1 |
| +.M1/59.4 | 20 | SPS-Anschluss, DE | BOOL | DIN2 | +CM1-QA11-X1:2 | Position Bit 2 Position Bit 2 |
| +.M1/59.4 | 8 | SPS-Anschluss, DE | BOOL | DIN3 | +CM1-QA11-X1:3 | Position Bit 3 Position Bit 3 |
| +.M1/59.4 | 21 | SPS-Anschluss, DE | BOOL | DIN4 | +CM1-XD2:24VA | Endstufenfreigabe enable outputs |
| +.M1/59.4 | 9 | SPS-Anschluss, DE | BOOL | DIN5 | +CM1-KF4 | Reglerfreigabe enable regulator |
| +.M1/59.4 | 22 | SPS-Anschluss, DE | BOOL | DIN6 | +CM1-BG11 | Endschalter negativ Limit switch negative |
| +.M1/59.5 | 10 | SPS-Anschluss, DE | BOOL | DIN7 | +CM1-BG12 | Endschalter positiv Limit switch positive |
| +.M1/59.5 | 23 | SPS-Anschluss, DE | BOOL | DIN8 | +CM1-BG13 | Referenzschalter reference switch |
| +.M1/59.5 | 11 | SPS-Anschluss, DE | BOOL | DIN9 | +CM1-QA11-X1:5 | Sample-Eingang Sample-input |
| +.M1/59.5 | 24 | SPS-Anschluss, DA | BOOL | DOUT0 | +CM1-KF2 | Betriebsbereit Ready |
| +.M1/59.5 | 12 | SPS-Anschluss, DA | BOOL | DOUT1 | +CM1-KF2 | Bewegung beendet motion complete |
| +.M1/59.6 | 25 | SPS-Anschluss, DA | BOOL | DOUT2 | +CM1-QA11-X1:25 | |
| +.M1/59.6 | 13 | SPS-Anschluss, DA | BOOL | DOUT3 | +CM1-QA11-X1:13 | |

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SPS-Diagramm PLC diagram

SPS CMMP_Z

SPS-Karte =CM1+CM1.T1-QA21

Modul

| Seite Page | Anschluss Connection point | Funktionsdefinition function definition | Datentyp data type | SPS-Adresse PLC address | Symbol symbol | Funktionstext function text |
|---------------|-------------------------------|--------------------------------------------|-----------------------|----------------------------|------------------|-------------------------------------------|
| +.M2/63.3 | 19 | SPS-Anschluss, DE | BOOL | DIN0 | +CM1-QA21-X1:0 | Position Bit 0 Position Bit 0 |
| +.M2/63.3 | 7 | SPS-Anschluss, DE | BOOL | DIN1 | +CM1-QA21-X1:1 | Position Bit 1 Position Bit 1 |
| +.M2/63.4 | 20 | SPS-Anschluss, DE | BOOL | DIN2 | +CM1-QA21-X1:2 | Position Bit 2 Position Bit 2 |
| +.M2/63.4 | 8 | SPS-Anschluss, DE | BOOL | DIN3 | +CM1-QA21-X1:3 | Position Bit 3 Position Bit 3 |
| +.M2/63.4 | 21 | SPS-Anschluss, DE | BOOL | DIN4 | +CM1-XD2:24VA | Endstufenfreigabe enable outputs |
| +.M2/63.4 | 9 | SPS-Anschluss, DE | BOOL | DIN5 | +CM1-KF4 | Reglerfreigabe enable regulator |
| +.M2/63.4 | 22 | SPS-Anschluss, DE | BOOL | DIN6 | +CM1-BG21 | Endschalter negativ Limit switch negative |
| +.M2/63.5 | 10 | SPS-Anschluss, DE | BOOL | DIN7 | +CM1-BG22 | Endschalter positiv Limit switch positive |
| +.M2/63.5 | 23 | SPS-Anschluss, DE | BOOL | DIN8 | +CM1-BG23 | Referenzschalter reference switch |
| +.M2/63.5 | 11 | SPS-Anschluss, DE | BOOL | DIN9 | +CM1-XJ21-XS6 | Sample-Eingang Sample-input |
| +.M2/63.5 | 24 | SPS-Anschluss, DA | BOOL | DOUT0 | +CM1-KF2 | Betriebsbereit Ready |
| +.M2/63.5 | 12 | SPS-Anschluss, DA | BOOL | DOUT1 | +CM1-KF2 | Bewegung beendet motion complete |
| +.M2/63.6 | 25 | SPS-Anschluss, DA | BOOL | DOUT2 | +CM1-QA21-X1:25 | |
| +.M2/63.6 | 13 | SPS-Anschluss, DA | BOOL | DOUT3 | +CM1-QA21-X1:13 | |

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| | | | | | | | | | |
|--------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------|-----------|----|-------|----------------------------|-----------|
| Datum | 16.03.2022 | Festo Didactic SE | FESTO | SPS-Diagramm =CM1+CM1.T1-QA21 PLC diagram =CM1+CM1.T1-QA21 | S-Nr. | | | | |
| Bearb. | Schuhmacher | Rechbergstraße 3 | | | PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP | Seite 106 |
| Erst. | Schuhmacher | D-73770 Denkendorf | | | | | + LST | Auswertungen | von 124 |
| Ze.Nr. | | N:FDMR07DE F:FDMX04DE E:PL0VZFG7M \\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP21914\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk | | | | | | | |

SPS-Diagramm PLC diagram

| SPS S7 | | SPS-Karte =CM1+CM1.K1-KF2ack | | | | Modul | |
|---------------|-------------------------------|--------------------------------------------|-----------------------|----------------------------|-----------------------------|--------------------------------------------------------------------|--|
| Seite Page | Anschluss Connection point | Funktionsdefinition function definition | Datentyp data type | SPS-Adresse PLC address | Symbol symbol | Funktionstext function text | |
| /28.2 | 1 lx | SPS-Anschluss, DE | BOOL | %I0.0 | +CM1-F2-FQ5:Trägerkreislauf | Trägerkreislauf Status Muting Bearing circuit Status muting | |
| /28.4 | 2 lx+1 | SPS-Anschluss, DE | BOOL | %I0.1 | +CM1-F2-FQ5:Trägerkreislauf | Trägerkreislauf Lichtvorhang Deaktivierungsausgang Bearing circuit | |
| /28.5 | 3 lx+2 | SPS-Anschluss, DE | BOOL | %I0.2 | +CM1-QA11:-X1 | X-Achse Betriebsbereit X-axis operational | |
| /28.7 | 4 lx+3 | SPS-Anschluss, DE | BOOL | %I0.3 | +CM1-QA11:-X1 | X-Achse Bewegung beendet X-axis motion complete | |
| /29.2 | 5 lx+4 | SPS-Anschluss, DE | BOOL | %I0.4 | +CM1-QA21:-X1 | Z-Achse Betriebsbereit Z-axis operational | |
| /29.4 | 6 lx+5 | SPS-Anschluss, DE | BOOL | %I0.5 | +CM1-FZ11:-X40 | X-Achse sichere red Geschwindigkeit X-Axis safe reduced Speed | |
| /29.5 | 7 lx+6 | SPS-Anschluss, DE | BOOL | %I0.6 | +CM1-FZ21:-X40 | Z-Achse sichere red Geschwindigkeit Z-Axis safe reduced Speed | |
| /29.7 | 8 lx+7 | SPS-Anschluss, DE | BOOL | %I0.7 | +CM1-QA21:-X1 | Z-Achse Bewegung beendet Z-axis motion complete | |

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SPS-Diagramm PLC diagram

SPS S7

SPS-Karte =CM1+CM1.K1-KF3 Rack

Modul

| Seite Page | Anschluss Connection point | Funktionsdefinition function definition | Datentyp data type | SPS-Adresse PLC address | Symbol symbol | Funktionstext function text |
|---------------|-------------------------------|--------------------------------------------|-----------------------|----------------------------|------------------|---------------------------------------------------------------------|
| /33.2 | 1 Ix | SPS-Anschluss, DE | BOOL | %I1.0 | +CM1-BG61 | Zuführung Kiste Überstand Richtung Robotino boxfeeding overlap |
| /33.4 | 2 Ix+1 | SPS-Anschluss, DE | BOOL | %I1.1 | +CM1-BG62 | Zuführung Kiste mittig auf Band feeding box middle on telescopic |
| /33.5 | 3 Ix+2 | SPS-Anschluss, DE | BOOL | %I1.2 | +CM1-BG63 | Zuführung Kiste Überstand Richtung Lager boxfeeding overlap side |
| /33.7 | 4 Ix+3 | SPS-Anschluss, DE | BOOL | %I1.3 | +CM1-BG64 | Zuführung Koppelsensor Robotino boxfeeding coupling sensor Robotino |
| /34.2 | 5 Ix+4 | SPS-Anschluss, DE | BOOL | %I1.4 | +CM1-BG65 | Ausgabe Kiste Überstand Richtung Robotino output overlap side |
| /34.4 | 6 Ix+5 | SPS-Anschluss, DE | BOOL | %I1.5 | +CM1-BG66 | Ausgabe Kiste mittig auf Band output box middle on conveyor |
| /34.5 | 7 Ix+6 | SPS-Anschluss, DE | BOOL | %I1.6 | +CM1-BG67 | Ausgabe Kiste Überstand Richtung Lager output overlap side St |
| /34.7 | 8 Ix+7 | SPS-Anschluss, DE | BOOL | %I1.7 | +CM1-BG68 | Ausgabe Koppelsensor Robotino output coupling sensor Robotino |

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| | | | | | | | | |
|--------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------|-----------|----|-------|----------------------------|
| Datum | 16.03.2022 | Festo Didactic SE | FESTO | SPS-Diagramm =CM1+CM1.K1-KF3 PLC diagram =CM1+CM1.K1-KF3 | S-Nr. | | | |
| Bearb. | Schuhmacher | Rechbergstraße 3 | | | PSP / DPJ | VN | = CM1 | Hochregallager Box -1512SP |
| Erst. | Schuhmacher | D-73770 Denkendorf | | | | | + LST | Auswertungen |
| Ze.Nr. | | N:FDMR07DE F:FDMX04DE E:PL0VZFG7M \\vesto.net\dfs01\INT\Data\EPLAN\DATA_xx\IDE\Projects\Didactic\Products\21 CP2\FB\aktuell Kistenlager\KistenlagerV7 2022-03-16.elk | | | | | | |

SPS-Diagramm PLC diagram

| SPS S7 | | SPS-Karte =CM1+CM1.K1-KF4 Rack | | | | Modul |
|---------------|-------------------------------|--------------------------------------------|-----------------------|----------------------------|------------------|-----------------------------------------------------------------|
| Seite Page | Anschluss Connection point | Funktionsdefinition function definition | Datentyp data type | SPS-Adresse PLC address | Symbol symbol | Funktionstext function text |
| /30.2 | 1 Ox | SPS-Anschluss, DA | BOOL | %Q0.0 | +CM1-QF1-MB32 | Teleskop ausfahren move telescope forward |
| /30.4 | 2 Ox+1 | SPS-Anschluss, DA | BOOL | %Q0.1 | +CM1-QF2-MB34 | Stopper Teleskop senken open Stopper telescope |
| /30.5 | 3 Ox+2 | SPS-Anschluss, DA | BOOL | %Q0.2 | +CM1-QA11:-X1 | Freigabe X-Achse enable X-Axis |
| /30.7 | 4 Ox+3 | SPS-Anschluss, DA | BOOL | %Q0.3 | +CM1-QA21:-X1 | Freigabe Z-Achse enable Z-Axis |
| /31.2 | 5 Ox+4 | SPS-Anschluss, DA | BOOL | %Q0.4 | +CM1-QA1-re | Teleskop vorwärts (Richtung Lager) telescope forward (direction |
| /31.4 | 6 Ox+5 | SPS-Anschluss, DA | BOOL | %Q0.5 | +CM1-QA1-li | Teleskop rückwärts (Richtung Übergabe) telescope backward (c |
| /31.5 | 7 Ox+6 | SPS-Anschluss, DA | BOOL | %Q0.6 | +CM1-FQ1-E1 | Verriegelung Schutztüren locking safety doors |
| /31.7 | 8 Ox+7 | SPS-Anschluss, DA | BOOL | %Q0.7 | | |

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SPS-Diagramm PLC diagram

| SPS S7 | | SPS-Karte =CM1+CM1.K1-KF5 Back | | | | Modul | |
|---------------|-------------------------------|--------------------------------------------|-----------------------|----------------------------|------------------|-----------------------------------------------------------------|--|
| Seite Page | Anschluss Connection point | Funktionsdefinition function definition | Datentyp data type | SPS-Adresse PLC address | Symbol symbol | Funktionstext function text | |
| /35.2 | 1 Ox | SPS-Anschluss, DA | BOOL | %Q1.0 | +CM1-QA2-re | Zuführband Richtung Lager Input conveyor direction Storage | |
| /35.4 | 2 Ox+1 | SPS-Anschluss, DA | BOOL | %Q1.1 | +CM1-QA2-li | Zuführband Richtung Robotino Input conveyor direction Robotino | |
| /35.5 | 3 Ox+2 | SPS-Anschluss, DA | BOOL | %Q1.2 | +CM1-F2-FQ5:Tr | Leuchtwiderlichtbaugruppe Deaktivierungseingang 1 Light curtain | |
| /35.7 | 4 Ox+3 | SPS-Anschluss, DA | BOOL | %Q1.3 | +CM1-PF64 | Koppelsensor Sender Robotino Zuführung Robotino Coupling In | |
| /36.2 | 5 Ox+4 | SPS-Anschluss, DA | BOOL | %Q1.4 | +CM1-QA3-re | Ausgabeband Richtung Lager Output conveyor direction Storage | |
| /36.4 | 6 Ox+5 | SPS-Anschluss, DA | BOOL | %Q1.5 | +CM1-QA3-li | Ausgabeband Richtung Robotino Output conveyor direction Stor | |
| /36.5 | 7 Ox+6 | SPS-Anschluss, DA | BOOL | %Q1.6 | +CM1-F2-FQ5:Tr | Leuchtwiderlichtbaugruppe Deaktivierungseingang 2 Light curtain | |
| /36.7 | 8 Ox+7 | SPS-Anschluss, DA | BOOL | %Q1.7 | +CM1-PF68 | Koppelsensor Sender Robotino Ausgabe Robotino Coupling Ou | |

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SPS-Diagramm PLC diagram

| SPS S7 | | SPS-Karte =CM1+CM1.K2-KF12 Rack | | | | Modul |
|---------------|-------------------------------|--------------------------------------------|-----------------------|----------------------------|------------------|------------------------------------------------------------------|
| Seite Page | Anschluss Connection point | Funktionsdefinition function definition | Datentyp data type | SPS-Adresse PLC address | Symbol symbol | Funktionstext function text |
| /39.2 | 1 DI0 | SPS-Anschluss, DE | BOOL | %I10.0 | +CM1-FQ2 | Schutztüre 1+2 (hinten) geschlossen Kanal 1 safety door 1+2 (re) |
| /39.4 | 2 DI1 | SPS-Anschluss, DE | BOOL | %I10.1 | +CM1-FQ1 | Schutztüre 1 verriegelt safety door 1 locked |
| /39.5 | 3 DI2 | SPS-Anschluss, DE | BOOL | %I10.2 | +CM1-KF12 | Schutztüre 3+4 (vorne) geschlossen Kanal 1 safety door 3+4 (fr) |
| /39.7 | 4 DI3 | SPS-Anschluss, DE | BOOL | %I10.3 | | |
| /40.2 | 5 DI4 | SPS-Anschluss, DE | BOOL | %I10.4 | +CM1-FQ2 | Schutztüre 1+2 (hinten) geschlossen Kanal 2 safety door 1+2 (re) |
| /40.4 | 6 DI5 | SPS-Anschluss, DE | BOOL | %I10.5 | +CM1-FQ2 | Schutztüre 2 verriegelt safety door 2 locked |
| /40.5 | 7 DI6 | SPS-Anschluss, DE | BOOL | %I10.6 | +CM1-KF12 | Schutztüre 3+4 (vorne) geschlossen Kanal 2 safety door 3+4 (fr) |
| /40.7 | 8 DI7 | SPS-Anschluss, DE | BOOL | %I10.7 | | |

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SPS-Diagramm PLC diagram

| SPS S7 | | SPS-Karte =CM1+CM1.K2-KF13 Rack | | | | Modul |
|---------------|-------------------------------|--------------------------------------------|-----------------------|----------------------------|------------------|---------------------------------------------------------------|
| Seite Page | Anschluss Connection point | Funktionsdefinition function definition | Datentyp data type | SPS-Adresse PLC address | Symbol symbol | Funktionstext function text |
| /41.2 | 1 DI0 | SPS-Anschluss, DE | BOOL | %I20.0 | +CM1-FQ0 | Not-Halt intern emergency-stop internal |
| /41.4 | 2 DI1 | SPS-Anschluss, DE | BOOL | %I20.1 | +CM1-SF4 | Betriebsart Automatik operation mode automatic |
| /41.5 | 3 DI2 | SPS-Anschluss, DE | BOOL | %I20.2 | +CM1-SF1 | Antriebe ein drives on |
| /41.7 | 4 DI3 | SPS-Anschluss, DE | BOOL | %I20.3 | +CM1-F2-KF5-K1 | |
| /42.2 | 5 DI4 | SPS-Anschluss, DE | BOOL | %I20.4 | +CM1-FQ0 | Not-Halt intern Kanal 2 Emergency-stop internal channel 2 |
| /42.4 | 6 DI5 | SPS-Anschluss, DE | BOOL | %I20.5 | +CM1-SF4 | Betriebsart Manuell operation mode manual |
| /42.5 | 7 DI6 | SPS-Anschluss, DE | BOOL | %I20.6 | +CM1-FZ1 | Not-Halt Verkettung Rückmeldung emerg.-stop coupling feedback |
| /42.7 | 8 DI7 | SPS-Anschluss, DE | BOOL | %I20.7 | +CM1-F2-KF5-K2 | |

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SPS-Diagramm PLC diagram

| SPS S7 | | SPS-Karte =CM1+CM1.K2-KF14 Rack | | | | Modul |
|---------------|-------------------------------|--------------------------------------------|-----------------------|----------------------------|------------------|----------------------------------------------------|
| Seite Page | Anschluss Connection point | Funktionsdefinition function definition | Datentyp data type | SPS-Adresse PLC address | Symbol symbol | Funktionstext function text |
| /43.2 | 1 DI0 | SPS-Anschluss, DE | BOOL | %I30.0 | +CM1-BG51 | Lichtschanke 1 Lagerfächer light barrier 1 shelfes |
| /43.4 | 2 DI1 | SPS-Anschluss, DE | BOOL | %I30.1 | +CM1-BG52 | Lichtschanke 2 Lagerfächer light barrier 2 shelfes |
| /43.5 | 3 DI2 | SPS-Anschluss, DE | BOOL | %I30.2 | +CM1-BG53 | Lichtschanke 3 Lagerfächer light barrier 3 shelfes |
| /43.7 | 4 DI3 | SPS-Anschluss, DE | BOOL | %I30.3 | +CM1-BG54 | Lichtschanke 4 Lagerfächer light barrier 4 shelfes |
| /44.2 | 5 DI4 | SPS-Anschluss, DE | BOOL | %I30.4 | | |
| /44.4 | 6 DI5 | SPS-Anschluss, DE | BOOL | %I30.5 | | |
| /44.5 | 7 DI6 | SPS-Anschluss, DE | BOOL | %I30.6 | | |
| /44.7 | 8 DI7 | SPS-Anschluss, DE | BOOL | %I30.7 | | |

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SPS-Diagramm PLC diagram

| SPS S7 | | SPS-Karte =CM1+CM1.K2-KF15 | | | | Modul |
|---------------|-------------------------------|--------------------------------------------|-----------------------|----------------------------|------------------|---------------------------------------------------------------------|
| Seite Page | Anschluss Connection point | Funktionsdefinition function definition | Datentyp data type | SPS-Adresse PLC address | Symbol symbol | Funktionstext function text |
| /46.2 | 1 DI0 | SPS-Anschluss, DE | BOOL | %I40.0 | +CM1-BG31 | Teleskop ist in Grundstellung Telescope is in initial position |
| /46.4 | 2 DI1 | SPS-Anschluss, DE | BOOL | %I40.1 | +CM1-BG32 | Teleskop ist in Lagerfach gefahren Telescope moved into shelf |
| /46.5 | 3 DI2 | SPS-Anschluss, DE | BOOL | %I40.2 | +CM1-BG33 | Kiste im Lagerfach vorhanden box is in shelf available |
| /46.7 | 4 DI3 | SPS-Anschluss, DE | BOOL | %I40.3 | +CM1-BG34 | Teleskop Stopper ist oben Telescope Stopper is closed |
| /47.2 | 5 DI4 | SPS-Anschluss, DE | BOOL | %I40.4 | +CM1-BG35 | Kiste steht bei Seite Docking über box overlaps side docking |
| /47.4 | 6 DI5 | SPS-Anschluss, DE | BOOL | %I40.5 | +CM1-BG36 | Kiste ist auf Teleskop box is on telescope available |
| /47.5 | 7 DI6 | SPS-Anschluss, DE | BOOL | %I40.6 | +CM1-BG37 | Kiste steht bei Seite Lagerfächer über box overlaps side shelves |
| /47.7 | 8 DI7 | SPS-Anschluss, DE | BOOL | %I40.7 | +CM1-BG38 | 1=Schaltleiste Z-Achse in Position 1=switch-rail Z-axis in Position |

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SPS-Diagramm PLC diagram

| SPS S7 | | SPS-Karte =CM1+CM1.K2-KF16 | | | | Modul |
|---------------|-------------------------------|--------------------------------------------|-----------------------|----------------------------|------------------|---------------------------------------------|
| Seite Page | Anschluss Connection point | Funktionsdefinition function definition | Datentyp data type | SPS-Adresse PLC address | Symbol symbol | Funktionstext function text |
| /48.2 | 1 DQ-P0 | SPS-Anschluss, DA | BOOL | %Q50.0 | +CM1-KF17 | Schleichgang Achsen 1+2 slow speed axis 1+2 |
| /48.4 | 2 DQ-P1 | SPS-Anschluss, DA | BOOL | %Q50.1 | +CM1-KF18 | |
| /48.5 | 3 DQ-P2 | SPS-Anschluss, DA | BOOL | %Q50.2 | +CM1-KF19 | Reserve Spare |
| /48.7 | 4 DQ-P3 | SPS-Anschluss, DA | BOOL | %Q50.3 | +CM1-KF20 | |

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Artikelsummenstückliste

Summarized parts list

| Menge Quantity | Bezeichnung Designation | Lieferant Supplier | Bestell-Nr. Order Number | Hersteller Manufacturer | SAP-Nr SAP-No. |
|-------------------|--------------------------------------------|-----------------------|-----------------------------|----------------------------|-------------------|
| 8 | Kabelkanal HxB 85x45x2000 | Löffelhardt | BA68004007030B | Tehalit | 8027481 |
| 1 | Sicherheitsrelais für Lichtvorhang | KEY | GL-T11R | KEY | 8162242 |
| 1 | Kabel für Lichtvorhang | KEY | GL-RPT5PM | KEY | 8162243 |
| 1 | FI-Schutzschalter 30mA, 2pol 25A, Typ B | Siemens | 5SV3322-4 | Siemens | 8106309 |
| 1 | LS-SCHALTER 10KA 2POL C10 | SIE | 5SY4210-7 | SIE | 8106307 |
| 1 | Leitungsschutzschalter C-10A 2polig | Siemens | 5SY6210-7 | Siemens | 8027757 |
| 1 | MICO 4.6 / 24VDC/4*1/2/4/6A | MURR | 9000-41034-0100600 | MURR | 8037189 |
| 1 | Sirius Sicherheitsschaltgerät | Siemens | 3SK1111-2AB30 | Siemens | 8037190 |
| 2 | Sicherheitsmodul S3 für Servo-Controller | Festo | 1501331 | Festo | 1501331 |
| 1 | ANSCHLUSS-BOX ADVANCED | SIE | 6AV2125-2AE23-0AX0 | SIE | |
| 2 | PN-Interface für CMMP | FES | 1911916 | FES | 1911916 |
| 1 | TBEN-S2-2RFID-4DXP Ethernet-Interface neu | Turck | 6814029 | Turck | 4991096 |
| 1 | Leitung für Industrial Ethernet M8/RJ45 2m | Turck | 6933005 | Turck | 8071261 |
| 3 | Motorsteuerung M-MZS-4-30 | Kaleja | 06.05.020 | Kaleja | 8027603 |
| 3 | Hutschienenclip für Motorregler | Kaleja | 09.01.023 | Kaleja | 8027604 |
| 2 | Motorcontroller CMMP | Festo | 1501326 | Festo | 1501326 |
| 2 | Bremswiderstand 500W | Festo | 1336611 | Festo | 1336611 |
| 1 | Netzteil | FES | 2247682 | FES | 2247682 |
| 10 | Brücke 2-fach für 2,5 mm² | Wago | 2002-402 | Wago | 721958 |
| 10 | Endklammer | Wago | 249-116 | Wago | 757338 |
| 4 | Gruppenschildträger | Wago | 249-119 | Wago | 8027831 |
| 4 | Abschlussplatte für 4fach grau | Wago | 2002-1491 | Wago | 757337 |
| 22 | Reihenklemme 4x2,5 mm², grau | Wago | 2002-1401 | Wago | 753905 |
| 1 | Schutzleiterklemme 4x2,5 mm² | Wago | 2002-1407 | Wago | 753904 |
| 4 | Schutzleiterklemme 2x10 mm² | Wago | 2010-1207 | Wago | 8027817 |
| 7 | Brücke 4-fach für 2,5 mm² | Wago | 2002-404 | Wago | 8027825 |
| 4 | Reihenklemme 4x2,5 mm², orange | Wago | 2002-1402 | Wago | 8027815 |
| 6 | Reihenklemme 4x2,5 mm², blau | Wago | 2002-1404 | Wago | 757336 |
| 1 | Scalance XB008 | Siemens | 6GK5008-0BA00-1AB2 | Siemens | 8032088 |
| 2 | Stifteinsatz grau, Einbau | Wieland Electric | 96.052.5053.0 | Wieland Electric | 8035656 |
| 1 | Handentriegelung | Wieland Electric | 99.000.1449.5 | Wieland Electric | 8035658 |
| 4 | Buchseneinsatz grau, Einbau | Wieland Electric | 96.051.5053.0 | Wieland Electric | 8035657 |
| 1 | Schuko-Steckdose Hutschiene Hager SN016 | Hagemeyer | SN016 / Hag-Nr. 2055242 | Hagemeyer | 8027421 |
| 8 | X-Com-S steckbare Federleiste Anfang, grau | Wago | 2022-161 | Wago | 8027843 |
| 46 | X-Com-S steckbare Federleiste Mitte, grau | Wago | 2022-171 | Wago | 8027844 |
| 8 | X-Com-S steckbare Federleiste Ende, grau | Wago | 2022-181 | Wago | 8029334 |
| 8 | X-Com-S-Abschlussplatte grau (VE=100) | Wago | 2022-1391 | Wago | 8027841 |
| 62 | X-Com-S-Klemme 2-Leiter + 1-Pin grau | Wago | 2022-1301 | Wago | 8027839 |
| 1 | 2-Leiter-Trenn- und Messklemme, grau | Wago | 2002-1671 | Wago | 8027823 |
| 1 | Abschlussplatte für Trenn- und Messklemme | Wago | 2002-1691 | Wago | 8027824 |
| 1 | Platine Not-Aus-Verschaltung | Didactic | 8032429 | Didactic | 8032429 |
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Klemmenleistenübersicht

F14_002

| Klemmenleiste | Funktionstext | Klemmen | | | | | Seite des Klemmenplans |
|-------------------|----------------------------------------------------------------------------------|---------|--------|----------|---------|------------|------------------------|
| | | erste | letzte | Summe PE | Summe N | Gesamtzahl | |
| +CM1.T1-F2-KF5-X3 | | 10 | 21 | 0 | 0 | 12 | |
| +CM1.T1-F2-KF5-X4 | | 1 | 9 | 0 | 0 | 9 | |
| +CM1.T1-XD1 | Verteilung 400 VAC Distribution 400 VAC | 1L1 | PE | 9 | 0 | 21 | =CM1+LST&KLP/80 |
| +CM1.T1-XD2 | Verteilung 24 V DC Distribution 24 V DC | 24V | 0V | 0 | 0 | 18 | =CM1+LST&KLP/81 |
| +CM1.T1-XG1 | Klemmen Bedienfeld & Safety Terminals Control Panel & Safety | | | 0 | 0 | 0 | |
| +CM1.T1-XJ5 | Steckklemmen für Turschalter 1 Plug-in terminals for door switch 1 | 1 | 8 | 0 | 0 | 8 | =CM1+LST&KLP/82 |
| +CM1.T1-XJ6 | Steckklemmen für Turschalter 2 Plug-in terminals for door switch 2 | 1 | 8 | 0 | 0 | 8 | =CM1+LST&KLP/83 |
| +CM1.T1-XJ7 | Steckklemmen für Turschalter 3 Plug-in terminals for door switch 3 | 1 | 3 | 0 | 0 | 4 | =CM1+LST&KLP/84 |
| +CM1.T1-XJ8 | Steckklemmen für Turschalter 4 Plug-in terminals for door switch 4 | 1 | 3 | 0 | 0 | 4 | =CM1+LST&KLP/85 |
| +CM1.T1-XJ11 | Steckklemmen X-Achse Plug-in terminals X-axis | 1 | 15 | 0 | 0 | 15 | =CM1+LST&KLP/86 |
| +CM1.T1-XJ12 | Steckklemmen Freigabesignale X-Achse Plug-in terminals Enable signals X-axis | 1 | 4 | 0 | 0 | 4 | =CM1+LST&KLP/87 |
| +CM1.T1-XJ21 | Steckklemmen Z-Achse Plug-in terminals Z-axis | 1 | 15 | 0 | 0 | 15 | =CM1+LST&KLP/88 |
| +CM1.T1-XJ22 | Steckklemmen Freigabesignale Z-Achse Plug-in terminals Release signals Z-axis | 1 | 4 | 0 | 0 | 4 | =CM1+LST&KLP/89 |
| +CM1.T1-XZ2-X4 | Anschlussleiste Manifold strip | 1 | 18 | 0 | 0 | 18 | |
| +CM1.K1-XD11-XG1 | | 24 VA | 16 | 0 | 0 | 24 | =CM1+LST&KLP/90 |
| +CM1.K2-XD12-XG1 | | 24 VA | 12 | 0 | 0 | 20 | =CM1+LST&KLP/91 |
| +CM1.M3-XD3 | Klemmen Motoren im Teleskop Clamp motors in telescope | 1 | 2 | 0 | 0 | 2 | =CM1+LST&KLP/92 |
| +CM1.M3-XD22-XG | EA-Terminal Anschlussklemmen EA terminal Connection terminals | 24VB | 16 | 0 | 0 | 51 | |
| +CM1.M4-XD21-XG | = | 24VB | 16 | 0 | 0 | 51 | |

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Steckerübersicht

F23_002

| Steckerbezeichnung | Funktionstext | Stecker | | | | | Seite des Steckerplans |
|--------------------|-------------------------------------------------------------------------------------------|---------|--------|----------|---------|------------|------------------------|
| | | erste | letzte | Summe PE | Summe N | Gesamtzahl | |
| +CM1.T1-F2-KF5-X1 | | 1 | 12 | 0 | 0 | 12 | |
| +CM1.T1-F2-KF5-X2 | | 1 | 12 | 0 | 0 | 12 | |
| +CM1.T1-KF3-PN | Profinet-Kommunikation ### FREMDSPRACHE ### | PN1 | PN2 | 0 | 0 | 2 | |
| +CM1.T1-KF3-X10 | | 1 | 12 | 0 | 0 | 11 | =CM1+LST&STP/93 |
| +CM1.T1-QA11-X1 | CMMP EA-Schnittstelle ### FREMDSPRACHE ### | | | 0 | 0 | 0 | |
| +CM1.T1-QA11-X2B | CMMP Encoderschnittstelle ### FREMDSPRACHE ### | | | 0 | 0 | 0 | |
| +CM1.T1-QA11-X6 | CMMP Motoranschluss ### FREMDSPRACHE ### | | | 0 | 0 | 0 | |
| +CM1.T1-QA11-X9 | CMMP Versorgung 100-230V AC ### FREMDSPRACHE ### | | | 0 | 0 | 0 | |
| +CM1.T1-QA21-X1 | CMMP EA-Schnittstelle ### FREMDSPRACHE ### | | | 0 | 0 | 0 | |
| +CM1.T1-QA21-X2B | CMMP Encoderschnittstelle ### FREMDSPRACHE ### | | | 0 | 0 | 0 | |
| +CM1.T1-QA21-X6 | CMMP Motoranschluss ### FREMDSPRACHE ### | | | 0 | 0 | 0 | |
| +CM1.T1-QA21-X9 | CMMP Versorgung 100-230V AC ### FREMDSPRACHE ### | | | 0 | 0 | 0 | |
| +CM1.T1-XJ1 | Wieland-Stecker Einspeisung Wieland plug power supply | | | 0 | 0 | 0 | |
| +CM1.T1-XJ2 | Wieland-Buchse Ausgang 1 Wieland socket output 1 | | | 0 | 0 | 0 | |
| +CM1.T1-XJ3 | Wieland-Buchse Ausgang 2 Wieland socket output 2 | | | 0 | 0 | 0 | |
| +CM1.T1-XTF1.1 | RFID-Verbindungsstecker M12 im Schaltschrank RFID connector M12 in the control cabinet | | | 0 | 0 | 0 | |
| +CM1.T1-XTF2.1 | = | | | 0 | 0 | 0 | |
| +CM1.T1-XZ2-X1 | Verbinder zu Station links ???? | | | 0 | 0 | 0 | |
| +CM1.T1-XZ2-X2 | Verbinder zu Station rechts Connector to the right station | | | 0 | 0 | 0 | |
| +CM1.T1-XZ2-X3 | Verbinder zu 3. Station ### FREMDSPRACHE ### | | | 0 | 0 | 0 | |
| +CM1.K1-XD11-XJ1 | | 1 | 24 | 0 | 0 | 24 | =CM1+LST&STP/94 |
| +CM1.K2-XD12-XJ1 | | 1 | 24 | 0 | 0 | 20 | =CM1+LST&STP/95 |
| +CM1.U1-XJ5-XF | | | | 0 | 0 | 0 | |
| +CM1.U1-XJ5-XR | | | | 0 | 0 | 1 | |
| +CM1.C1-FQ3-XST1 | M8-Stecker Türschalter ### FREMDSPRACHE ### | 1 | 4 | 0 | 0 | 4 | |
| +CM1.C1-FQ4-XST1 | = | 1 | 4 | 0 | 0 | 4 | |
| +CM1.M1-MA11-X2B | Encoderschnittstelle Encoder interface | | | 0 | 0 | 0 | |
| +CM1.M1-MA11-X6 | Leistungsversorgung ### FREMDSPRACHE ### | | | 0 | 0 | 0 | |

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Steckerübersicht

F23_002

| Steckerbezeichnung | Funktionstext | Stecker | | | | | Seite des Steckerplans |
|--------------------|-------------------------------------------------------------------------|---------|--------|----------|---------|------------|------------------------|
| | | erste | letzte | Summe PE | Summe N | Gesamtzahl | |
| +CM1.M1-XJ11-XS | Miniterminal Miniterminal | 1 | 15 | 0 | 0 | 15 | =CM1+LST&STP/96 |
| +CM1.M1-XJ11-XS0 | Eingangsbitt 0 input bit 0 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M1-XJ11-XS1 | Eingangsbitt 1 input bit 1 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M1-XJ11-XS2 | Eingangsbitt 2 input bit 2 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M1-XJ11-XS3 | Eingangsbitt 3 input bit 3 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M1-XJ11-XS4 | Eingangsbitt 4 input bit 4 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M1-XJ11-XS5 | Eingangsbitt 5 input bit 5 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M1-XJ11-XS6 | Eingangsbitt 6 input bit 6 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M1-XJ11-XS7 | Eingangsbitt 7 input bit 7 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M1-XJ11-XS8 | Eingangsbitt 8 input bit 8 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M1-XJ11-XS9 | Eingangsbitt 9 input bit 9 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M1-XJ11-XS10 | Ausgangsbitt 0 output bit 0 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M1-XJ11-XS11 | Eingangsbitt 11 input bit 11 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M2-MA21-X2B | Encoderschnittstelle | | | 0 | 0 | 0 | |
| +CM1.M2-MA21-X6 | Leistungsversorgung | | | 0 | 0 | 0 | |
| +CM1.M2-XJ21-XS | Miniterminal Miniterminal | 1 | 15 | 0 | 0 | 15 | =CM1+LST&STP/97 |
| +CM1.M2-XJ21-XS0 | Eingangsbitt 0 input bit 0 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M2-XJ21-XS1 | Ausgangsbitt 0 output bit 0 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M2-XJ21-XS2 | Eingangsbitt 1 input bit 1 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M2-XJ21-XS3 | Ausgangsbitt 1 output bit 1 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M2-XJ21-XS4 | Eingangsbitt 2 input bit 2 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M2-XJ21-XS5 | Ausgangsbitt 2 output bit 2 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M2-XJ21-XS6 | Eingangsbitt 3 input bit 3 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M2-XJ21-XS7 | Ausgangsbitt 3 output bit 3 | 1 | 4 | 0 | 0 | 3 | |
| +CM1.M3-XD22-XJ | Syslink syslink | 1 | 24 | 0 | 0 | 24 | |
| +CM1.M3-XTF2.2 | RFID-Anschlusstecker M12 an Lesekopf RFID connector M12 to read head | | | 0 | 0 | 0 | |
| +CM1.M4-XD21-XJ | Syslink syslink | 1 | 24 | 0 | 0 | 24 | |
| +CM1.M4-XTF1.2 | RFID-Anschlusstecker M12 an Lesekopf RFID connector M12 to read head | | | 0 | 0 | 0 | |

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