

Praxisbezogene Unterlage des betrieblichen Auftrages



Sortierstation mit Farbsensor und AS-i-Bus-System

| | |
|--------------------|--|
| Prüfling | Name, Vorname |
| Prüflingsnummer | |
| Ausbildungsbetrieb | Name und Postanschrift |
| Auftraggeber | BS Fertigungstechnik Deroystraße 80995 München |

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Auftragsbeschreibung

Die Sortieranlage soll in der Berufsschule für Fertigungstechnik als Programmierübung für die Schüler verwendet werden. Dabei sollen sie den Umgang mit dem AS-i Bus-System und das Einrichten und Arbeiten mit einem Farbsensor kennen lernen. Da die Anlage zuvor veraltete Bauteile und einen unnötig großen Hubzylinder verbaut hatte, wurde sie von den Lehrkräften kaum in den Unterricht mit einbezogen. Außerdem hatte der Farbsensor Probleme mit der Erkennung der Farben, da die Öffnung zu groß war und somit zu viel Streulicht zu Störungen führte. Des Weiteren wurde mit dem Not-Ausschalt-Gerät die komplette Anlage Spannungsfrei, aber nicht Druckfrei geschaltet. Auch das Touchpanel ist schlecht erreichbar gewesen, da es hinter dem PC Bildschirm platziert wurde. Es gab zu wenig Ablagebehälter, die genau wie das Blechmagazin und die Sensorhalterungen nur notdürftig befestigt. Die gesamte Verlegung und Verschlauchung der Anlage ist sehr unordentlich und liegt teilweise in den Verfah-Wegen der Zylinder. Mein Auftrag dabei ist es bestimmte Mängel zu beheben und die Anlage allgemein zu verbessern. Ein neues Not-Ausschalt-Gerät, das dem aktuellen Stand der Technik entspricht wurde verbaut. Das neue ansteuerbare Hauptventil sorgt für die Freischaltung der Druckluft. Außerdem habe ich den kompletten Schaltkasten neu gestaltet und verdrahtet. Anschließend habe ich die Baugruppen und Komponenten auf der Rückwandplatte und das Touchpanel am Tisch montiert. Auch die Bedienpulte habe ich neu platziert und verdrahtet, weil sie zuvor auch von dem PC-Bildschirm verdeckt wurden und zu weit weg waren von der zu steuernden Baugruppe.

Des Weiteren habe ich noch Zeichnungen für die neuen Ablagebehälter, Sensor- und Zylinderhalterungen gezeichnet. Zur Planung habe ich auch noch eine Technische Zeichnung der Rückwandplatte mit den Befestigungsbohrungen, einen Schaltkastenmontageplan und einen Gesamtlageplan erstellt.

Die restlichen Aufgaben wurden von einem anderen Prüfling erledigt.

Funktionsbeschreibung

Die Anlage soll unterschiedlich lackierte Bleche aus einem Magazin in die dafür vorgesehenen Ablagebehälter sortieren. Dabei erkennt der Farbsensor 3 verschiedene Farben, denen jeweils ein Ablagebehälter zugeordnet ist. Die restlichen Farben kommen in einen zusätzlichen Ablagebehälter. Die 2 Behälter sind um 90° zum Magazin versetzt und die anderen beiden um 180°. Diese Halbkreisbewegung wird von einem Drehzylinder ausgeführt.

Bei Betätigung des Not-Halts werden durch das Not-Ausschalt-Gerät die Ausgänge im Sekundärkreis ab- und der Druck durch das Hauptventil freigeschaltet.

Im Automatik-Betrieb($S4=1$) fährt der Greifer bei der Betätigung von $S2$ mit Hilfe der Zylinder $2A1$ und $3A1$ erst die Position des Magazins und anschließend, mit angesaugtem Blech, die Erkenn-Position des Farbsensors an. Danach wird das Blech in den Ablagebehälter der erkannten Farbe oder in die Position der Reste-Bleche gefahren. Danach beginnt der Vorgang von vorne bis die Stopp-Taste betätigt wird oder der Zähler abgelaufen ist.

Im Tipp-Betrieb($S4=0$) fährt der Greifer die Gleiche Strecke ab, aber es muss für jeden Schritt die Tipp-Taste($S5$) erneut gedrückt werden.

Wird der Taster $S3$ im Betrieb betätigt, bleibt die Anlage stehen und muss mit der Taste $S7$ gerichtet werden um die Grundstellung anzufahren.

Mit der Betätigung von $S6$ wird der Vorgang am Ende des aktuellen Zyklus gestoppt.

Arbeitsablaufprotokoll

| As.- Nr | Teilaufgabe | Soll- Zeit | Ist- Zeit |
|------------|-------------|---------------|--------------|
|------------|-------------|---------------|--------------|

Auftragsplanung

| | | | |
|---|---|-------|-------|
| 1 | Auftrag mit den Auftraggeber besprechen und den Arbeitsumfang anhand der Anlage analysieren | 00:30 | 00:30 |
| 2 | Informationen zur Anlage aus der alten Dokumentation beschaffen und mit den Lehrkräften der Berufsschule auswerten. | 00:30 | 00:30 |
| 5 | Besprechen der Arbeitseinteilung mit dem anderen Prüfling und erstellen einer vorläufigen Zeitplanung. | 00:30 | 00:10 |
| 8 | Material und Werkzeugbeschaffung (z. B. Schaltkasten, AS-i Slave-Bausteine) über die Berufsschule | 01:00 | 00:50 |
| 9 | Erstellen von Technischen Zeichnungen | 02:00 | 03:00 |

Auftragsdurchführung

| | | | |
|----|--|-------|-------|
| 11 | Prüfen der gelieferten Komponenten bzw. Baugruppen auf Fehler oder Beschädigungen | 02:00 | 01:00 |
| 12 | Montieren der Kabelkanäle, des Hauptventils, der AS-i Bausteine, der Ventil-Insel, der Ampel, des Drucksensors und des Schaltkastens auf die Rückwandplatte. | 03:00 | 03:30 |
| 13 | Einbauen und Anschließen der Komponenten und Baugruppen im neuen Schaltkasten und anschließend verdrahten | 03:30 | 03:30 |
| 14 | Schreiben eines Verfahrweg-Testprogrammes für die SPS | 03:00 | 03:15 |

Auftragskontrolle

| | | | |
|----|---|-------|-------|
| 21 | Kontrolle, Prüfung und Messung von Sicherheitsvorrichtungen zusammen mit einer Elektrofachkraft | 00:30 | 00:30 |
| 22 | Haupt-, Hilfs- und Steuerstromkreise in Betrieb nehmen | 00:30 | 00:05 |
| 25 | Das SPS Programm prüfen und übertragen und AS-i-Bus Übertragungsfunktion prüfen | 00:30 | 00:10 |
| 29 | Prüfprotokoll anfertigen und überprüfen | 00:30 | 00:15 |
| 30 | Dokumentation anfertigen und Leistungen abrechnen | 01:00 | 01:45 |

Arbeitssicherheit und Umweltschutz

Arbeitssicherheit: A

- tragen von persönlicher Schutzausrüstung
- Schutzbrille
- Enganliegende Arbeitskleidung
- Sicherheitsschuhe
- Benutzung von Maschinen mit Unterweisung und in einwandfreiem Zustand
- Beachten von Gefahrenhinweisen und -symbolen

Umweltschutz:

- Trennen des angefallenen Abfalls in „Papier“, Kunststoff“ und „Restmüll“
- Entsorgen der Kabelreste in den Elektroschrott
- Vermeidung von Abfallentstehung und unnötiger Benutzung von Gefahrstoffen
- Fachgerechtes Entsorgen der Späne nach der Bearbeitung

Materialliste

| Pos. Nr.: | Artikel | Bezeichnung | Hersteller | Menge |
|-----------|---------------------|---|------------|-------|
| 1 | Schaltkasten | Isolierstoffgehäuse groß 375x750 CI 48-200 | eaton | 1 |
| 2 | Montageplatte | Montageplatte groß M3 CI48 | eaton | 1 |
| 3 | Sicherungen | Sicherungen FAZ-C6/1 Leitungsschutzschalter | eaton | 2 |
| 4 | Hauptschalter | Hauptschalter 2polig T0-1-102/EZ | eaton | 1 |
| 5 | Bedienpult | Bedienpult 6er M22-16 Aufbaugehäuse | eaton | 1 |
| 6 | Bedienpult | Bedienpult 2er M22-16 Aufbaugehäuse | eaton | 1 |
| 7 | Drucktaste | Drucktaste flach, blau M22-D-B | eaton | 1 |
| 8 | Drucktaste | Drucktaste flach, schwarz M22-D-S | eaton | 1 |
| 9 | Drucktaste | Drucktaste flach, weiß M22-D-W | eaton | 1 |
| 10 | Drucktaste | Drucktaste flach, gelb M22-D-Y | eaton | 1 |
| 11 | Wahltaste | Wahltaste, 2 Stellungen M22-WRK | eaton | 1 |
| 12 | Not-Halt/Aus-Taster | Not-Halt/Aus-Taster Front M22-PV/K01 | eaton | 1 |
| 13 | Signallampe | Gehäuse Signallampe M22-13 | eaton | 1 |
| 14 | Befestigungsadapter | Befestigungsadapter M22-A | eaton | 8 |
| 15 | Leuchtelement, grün | M22-L-G-LED-BVP | eaton | 1 |
| 16 | Leuchtelement, gelb | M22-L-Y-LED-BVP | eaton | 1 |
| 17 | Leuchtelement, rot | M22-L-R-LED-BVP | eaton | 1 |
| 18 | Notausschaltgerät | 751103 PNOZ s3 C 24VDC 2n/o | Pilz | 1 |
| 19 | Aderendhülsen | 0,75mm ² , 1,5mm ² , 6mm ² | Klauke | 100 |
| 30 | Kabelschuhe | 6mm ² | Klauke | 3 |
| 31 | Kabel | H-05V-K, 0,75mm ² , blau | RCE | |

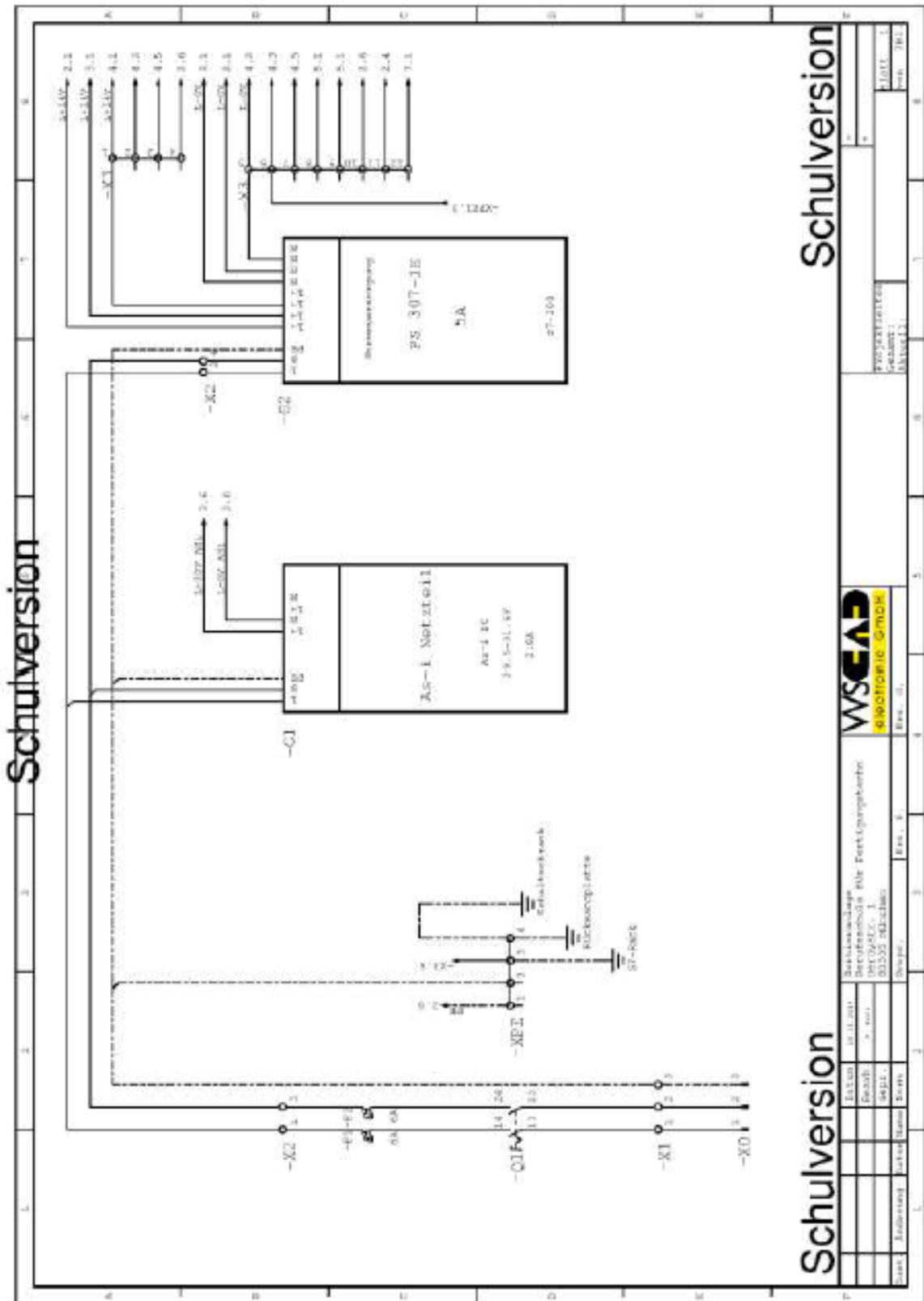
| | | | | |
|----|-----------------|---------------------------------------|------------------|---|
| 32 | Kabel | H-05V-K, 1,5mm ² , schwarz | RCE | |
| 33 | Kabel | H-05V-K, 1,5mm ² , blau | RCE | |
| 34 | Kabel | H-07V-K, 6mm ² , grün/gelb | RCE | |
| 35 | Kabelschacht | 30x60x200 geschlitz | Bachner | 2 |
| 36 | Kabelschacht | 60x30x200 | Bachner | 1 |
| 37 | Zugentlastung | M12x1,5 | Skintop | 6 |
| 38 | Zugentlastung | M16x1.5 | Skintop | 3 |
| 39 | Zugentlastung | M20x1.5 | Skintop | 1 |
| 40 | Aluminiumplatte | 1600x1040x3 | Lager- mittel | 1 |

Werkzeugliste

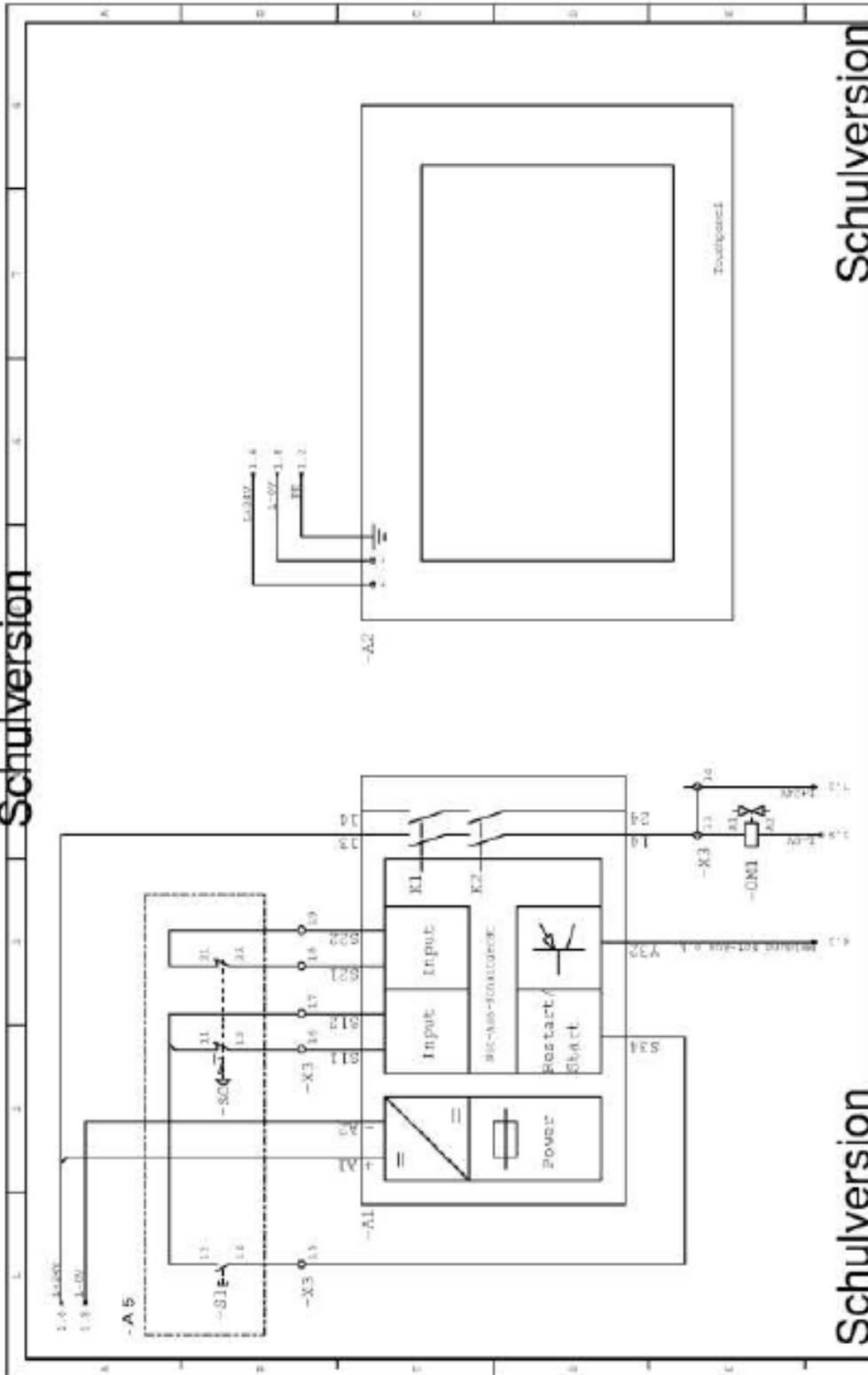
| Pos. Nr.: | Bezeichnung: |
|-----------|--|
| 1. | Schraubendrehersatz voll-isoliert Kreuz u. Schlitz Gr. 2-6 |
| 2. | Innensechskantwickelschraubendrehersatz 1,5-10mm |
| 3. | Ring- Maulschlüssel Gr. 4-22 |
| 4. | Anreißnadel |
| 5. | Körner |
| 6. | Schlosserhammer 300g |
| 7. | Lineal |
| 8. | Zentrierbohrer |
| 9. | HSS Bohrer diverse Größen |
| 10. | Kegelsenker 90° |
| 11. | Abmantelmesser |
| 12. | Handentgrater |
| 13. | Messschieber |
| 14. | Feilensatz |
| 15. | Metallbügelsäge |
| 16. | Automatische Abisolierzange |
| 17. | Aderendhülsenquetschzange |
| 18. | Kabelschuhquetschzange |
| 19. | Elektro-Seitenschneider |
| 20. | Kombizange |

| | |
|-----|--------------------------------|
| 21. | Laptop |
| 22. | Akku-Bohrschrauber |
| 23. | Elektrische Stichsäge |
| 24. | Metall-Stichsägeblatt |
| 25. | Abkantbank mit 6mm Biegeradius |
| 26. | Multimeter |
| 27. | Messspitzen |
| 28. | Profitest 204 |
| 29. | Torx-Schraubendrehersatz |
| 30. | Rollmaßband |
| 31. | Anschlagwinkel 90° |
| 32. | Windeisen |
| 33. | Schneidöl |
| 34. | Gewindebohrer M4-M6 |
| 35. | Heißluftföhn |
| 36. | Rohrzange |

Elektro-Schaltpläne



Schulversion



Schulversion

Schulversion

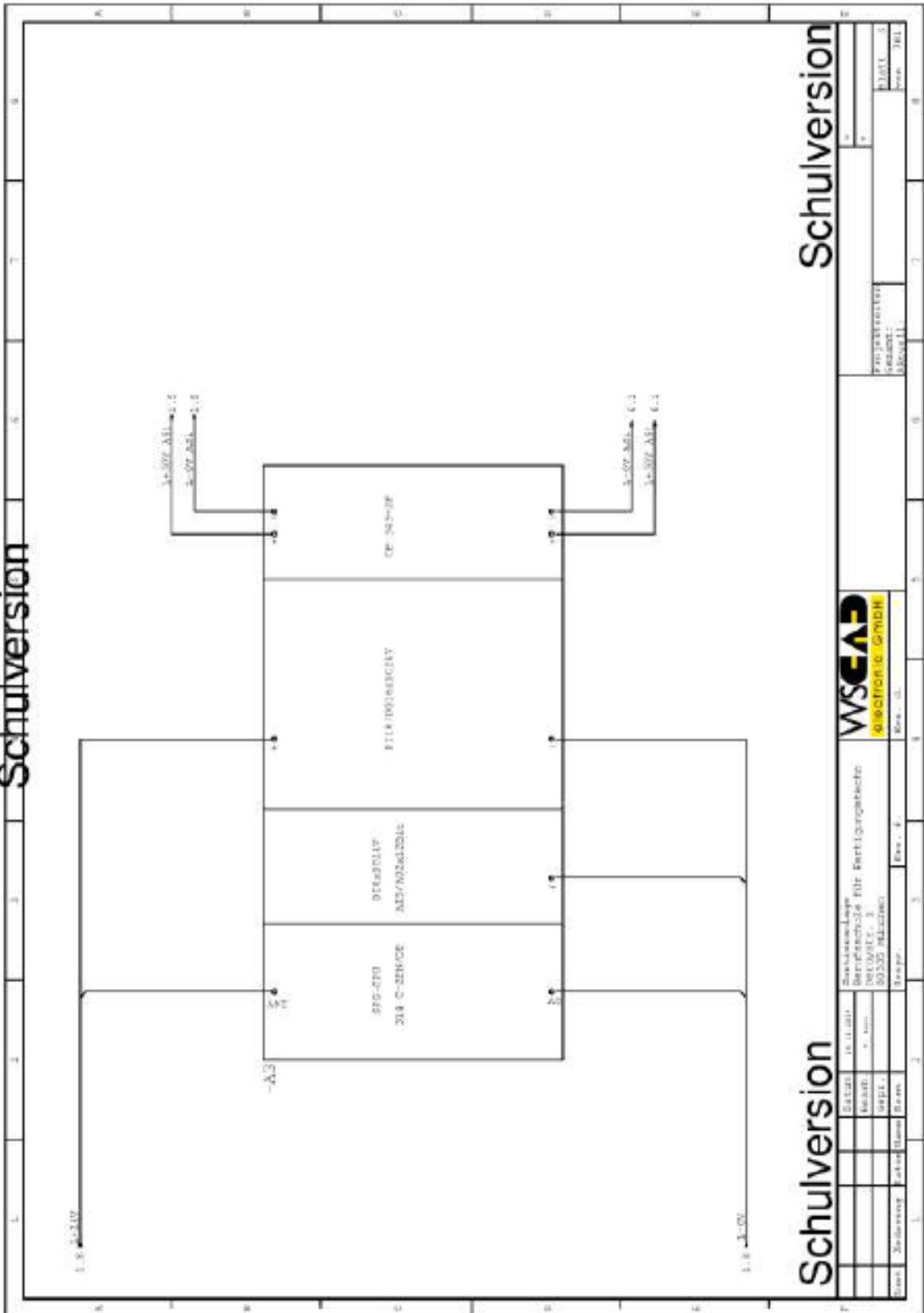
| | |
|--------------|-------------------------|
| Bezeichnung | PLC-System |
| Hersteller | Siemens |
| Modell | 6ES7 307-1EA00-0AB0 |
| Material-Nr. | 6ES7 307-1EA00-0AB0 |
| Bestandteil | PS 307-5 |
| Bezeichnung | Relay-Modul |
| Hersteller | Siemens |
| Modell | 6ES7 307-1EA00-0AB0 |
| Material-Nr. | 6ES7 307-1EA00-0AB0 |
| Bestandteil | Relay 8xDC24V/0.05A/5kV |



| | |
|--------------|-------------------------|
| Bezeichnung | Relay-Modul |
| Hersteller | Siemens |
| Modell | 6ES7 307-1EA00-0AB0 |
| Material-Nr. | 6ES7 307-1EA00-0AB0 |
| Bestandteil | Relay 8xDC24V/0.05A/5kV |

| | |
|--------------|-------------------------|
| Bezeichnung | Relay-Modul |
| Hersteller | Siemens |
| Modell | 6ES7 307-1EA00-0AB0 |
| Material-Nr. | 6ES7 307-1EA00-0AB0 |
| Bestandteil | Relay 8xDC24V/0.05A/5kV |

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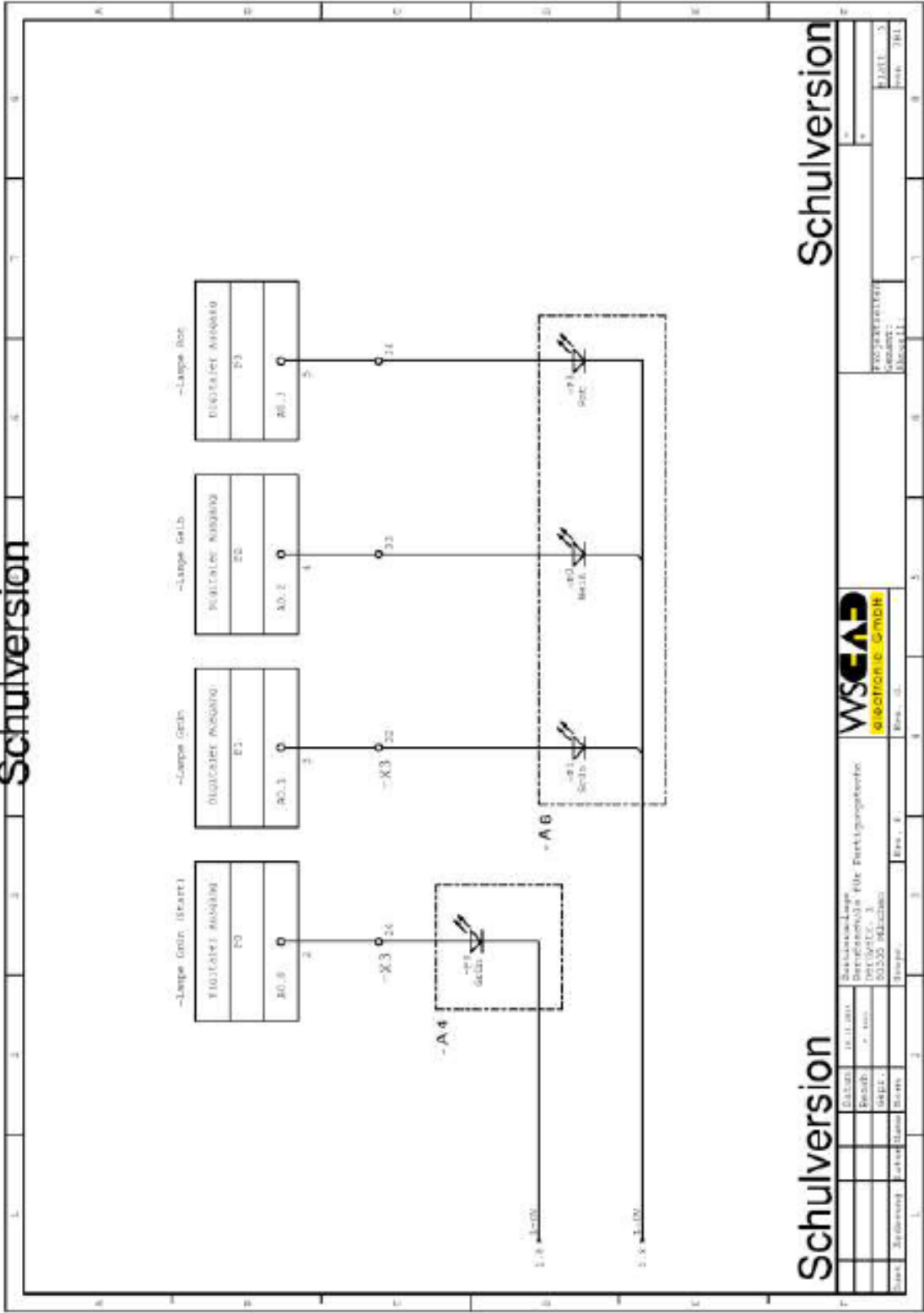


Schulversion

Schulversion

| | | | | | | | |
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| Bestell-Nr. | 11.11.2018 | Rechenanlage | WS-CAP | Projektleiter | | Blatt 11 | von 101 |
| Bestell-Nr. | | Berufsschule für Fertigungstechnik | 40661011010 | Blatt 11 | | | |
| Bestell-Nr. | | DEUTSCHE | | | | | |
| Bestell-Nr. | | 50330 | | | | | |
| Bestell-Nr. | | Tempo | | | | | |

Schulversion

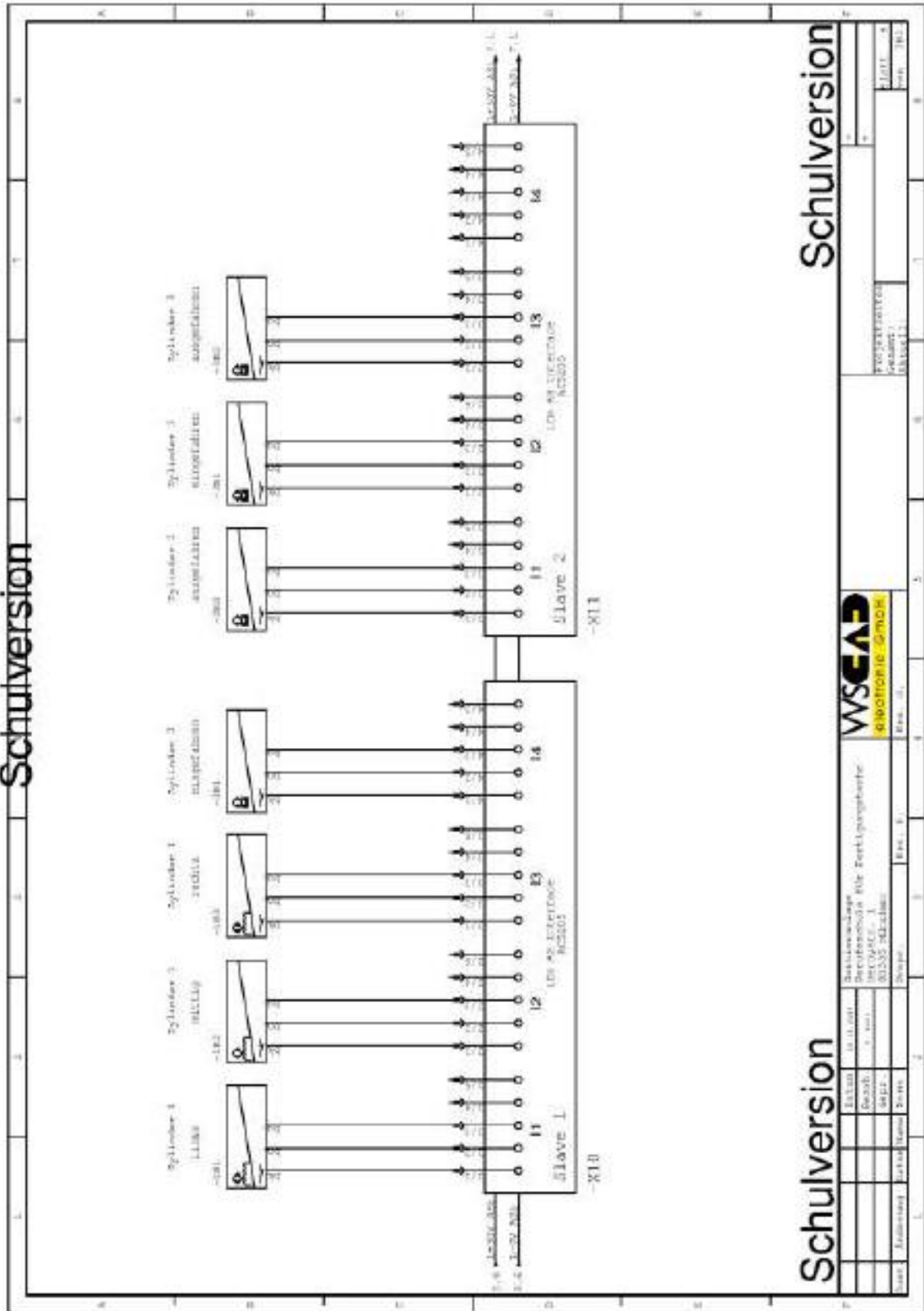


Schulversion

Schulversion

| | | | |
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| WS-CAP ELECTRONIC SCHOOL | | Projektnummer: _____ Datum: _____ | |
| Projekttitel: _____ Dozent: _____ | | Blatt: _____ von _____ | |
| Datum: _____ Blatt: _____ Seite: _____ | | Projektname: _____ Projektziele: _____ | |

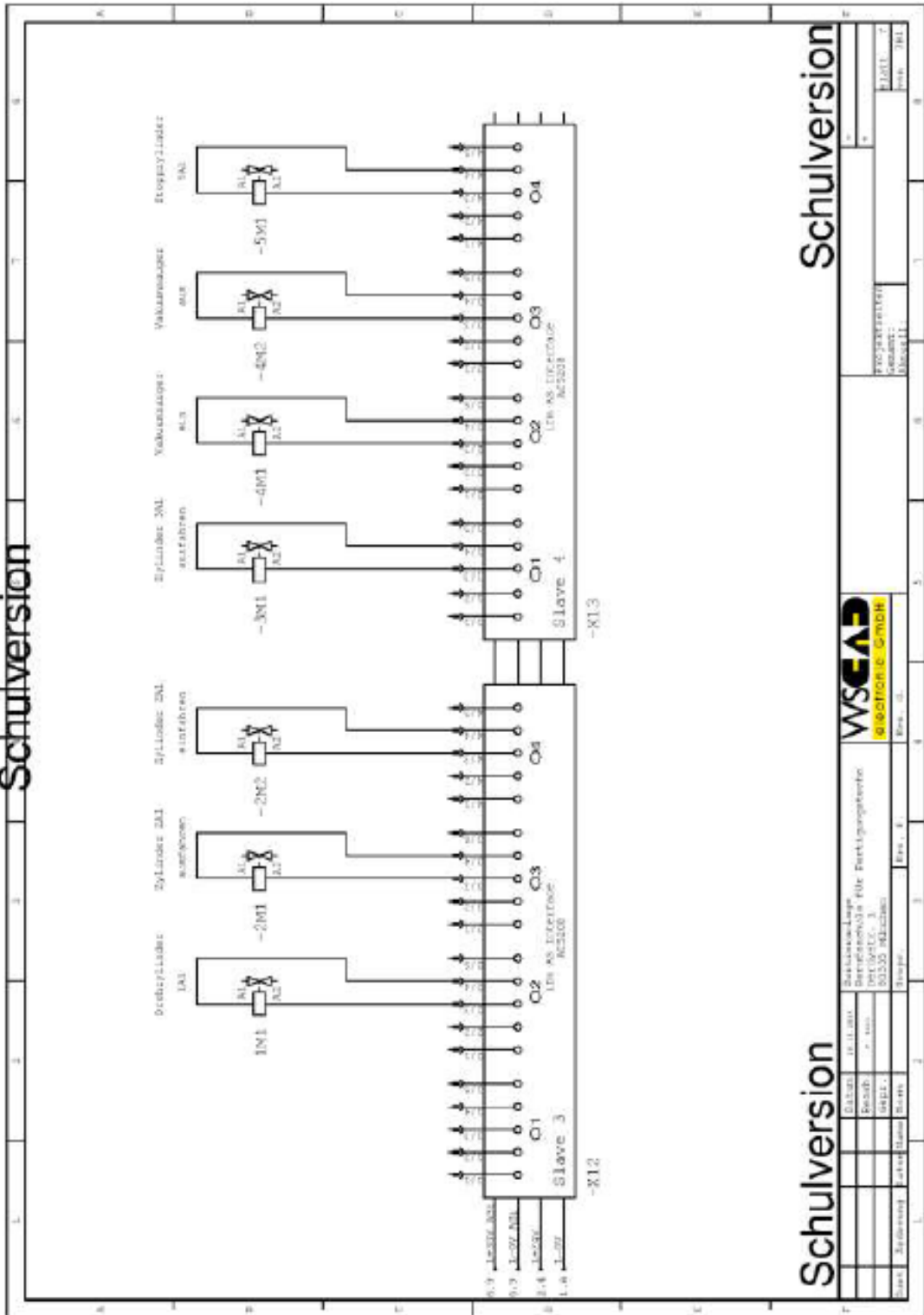
Schulversion



Schulversion

| | | | | | | | |
|-------------|--------------|--|--|--|--|-----------|----------------|
| Titel | Schulversion | | | | | Projektor | Prof. Dr.-Ing. |
| Zeichner | WSCAD | | | | | Projektor | Prof. Dr.-Ing. |
| Gezeichnet | WSCAD | | | | | Projektor | Prof. Dr.-Ing. |
| Geprüft | WSCAD | | | | | Projektor | Prof. Dr.-Ing. |
| Freigegeben | WSCAD | | | | | Projektor | Prof. Dr.-Ing. |
| Gezeichnet | WSCAD | | | | | Projektor | Prof. Dr.-Ing. |
| Geprüft | WSCAD | | | | | Projektor | Prof. Dr.-Ing. |
| Freigegeben | WSCAD | | | | | Projektor | Prof. Dr.-Ing. |

Schulversion



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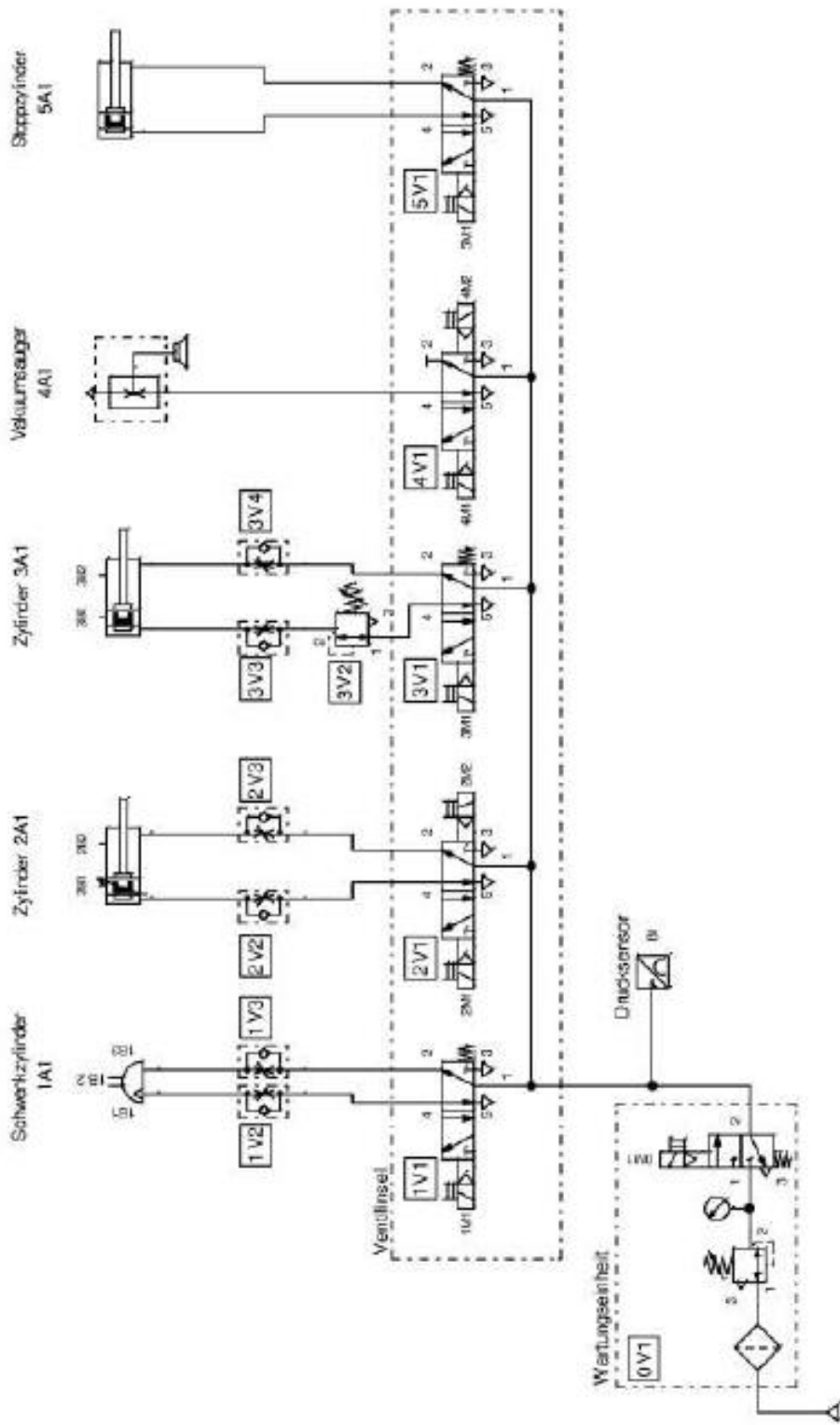
WSEAP
WIRTSCHAFTS-SCHULEN

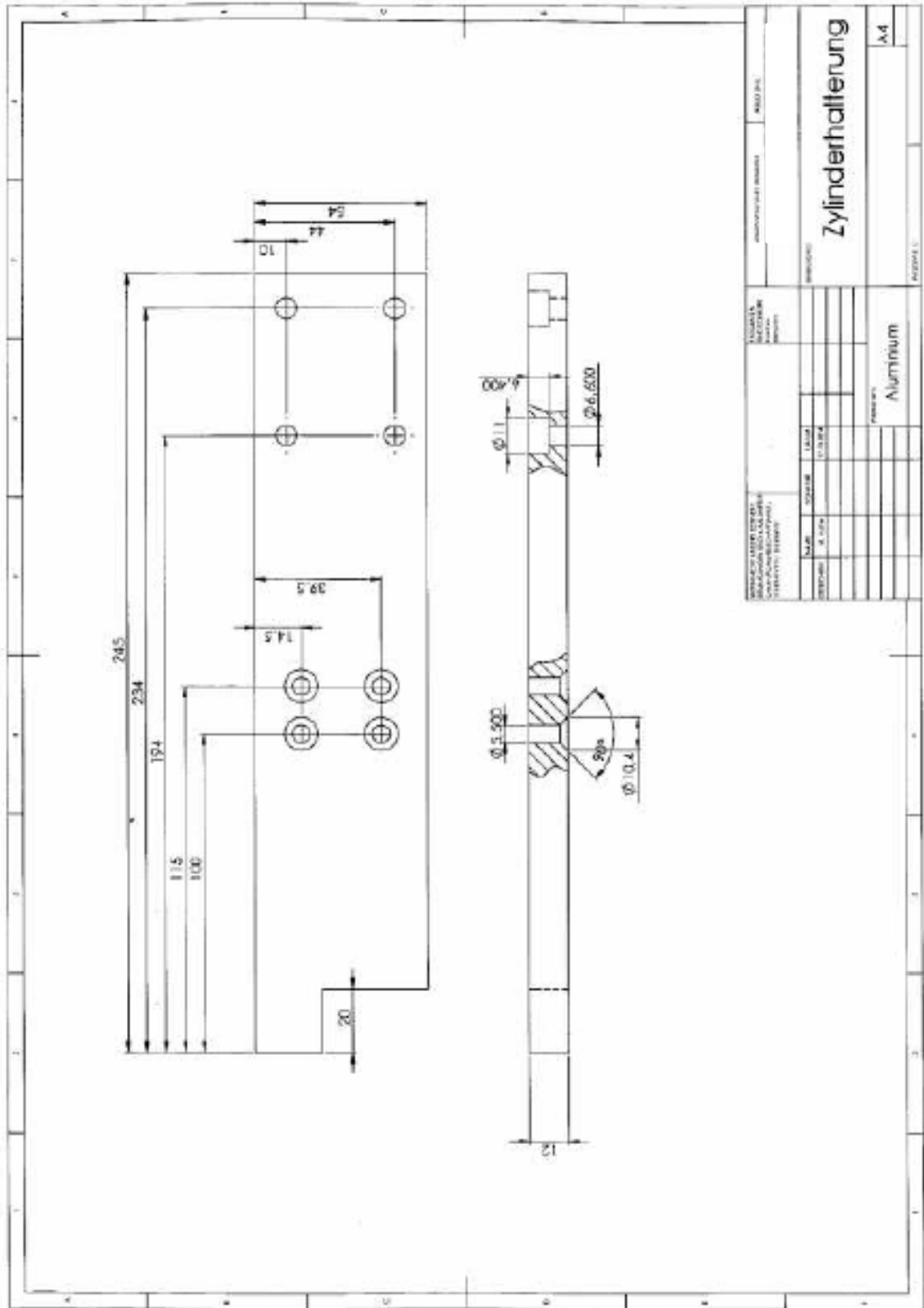
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 Bestell-Nr.: ...
 Datum: ...

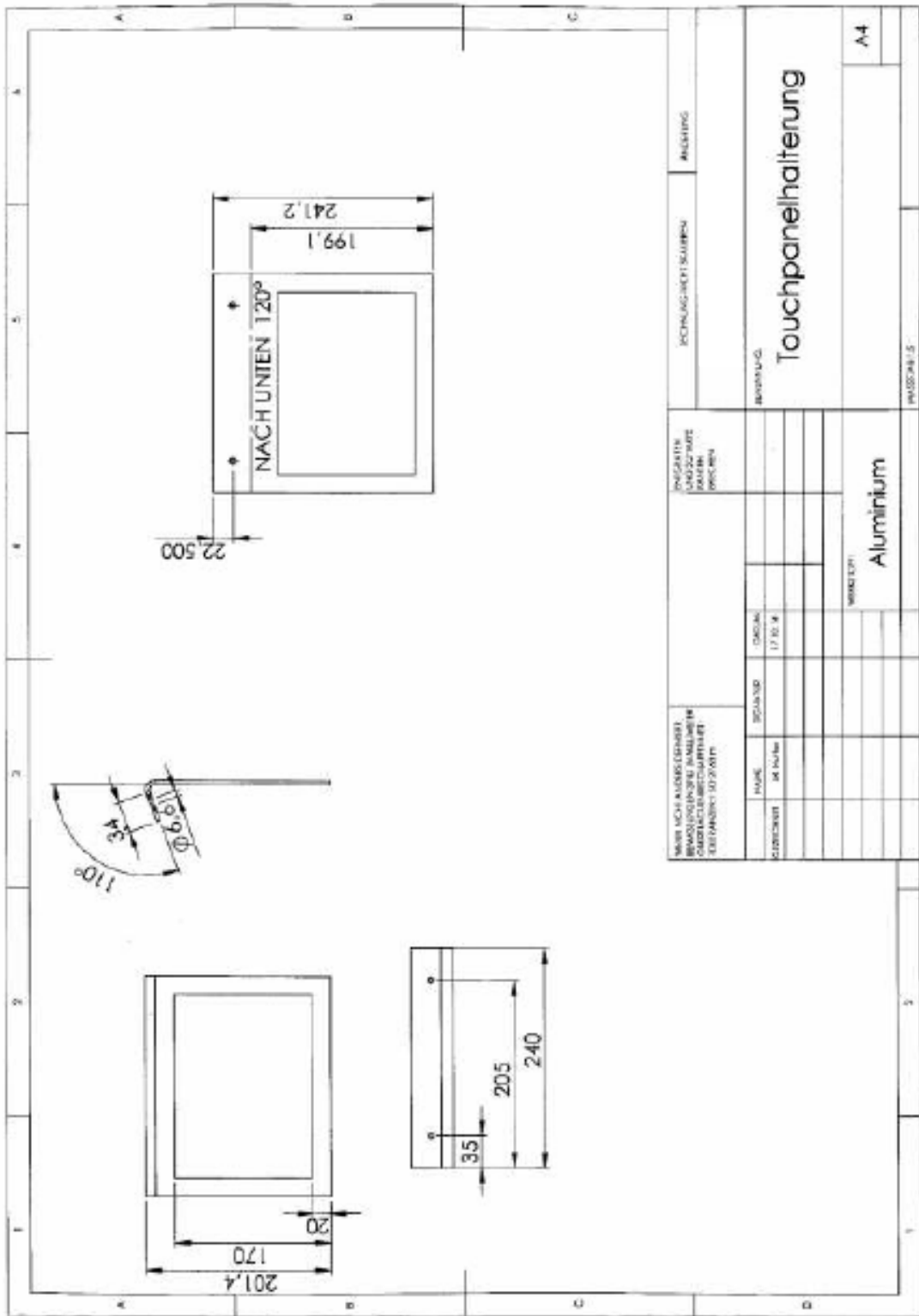
PROJEKTLEITER:
 Name: ...
 Matrikel-Nr.: ...

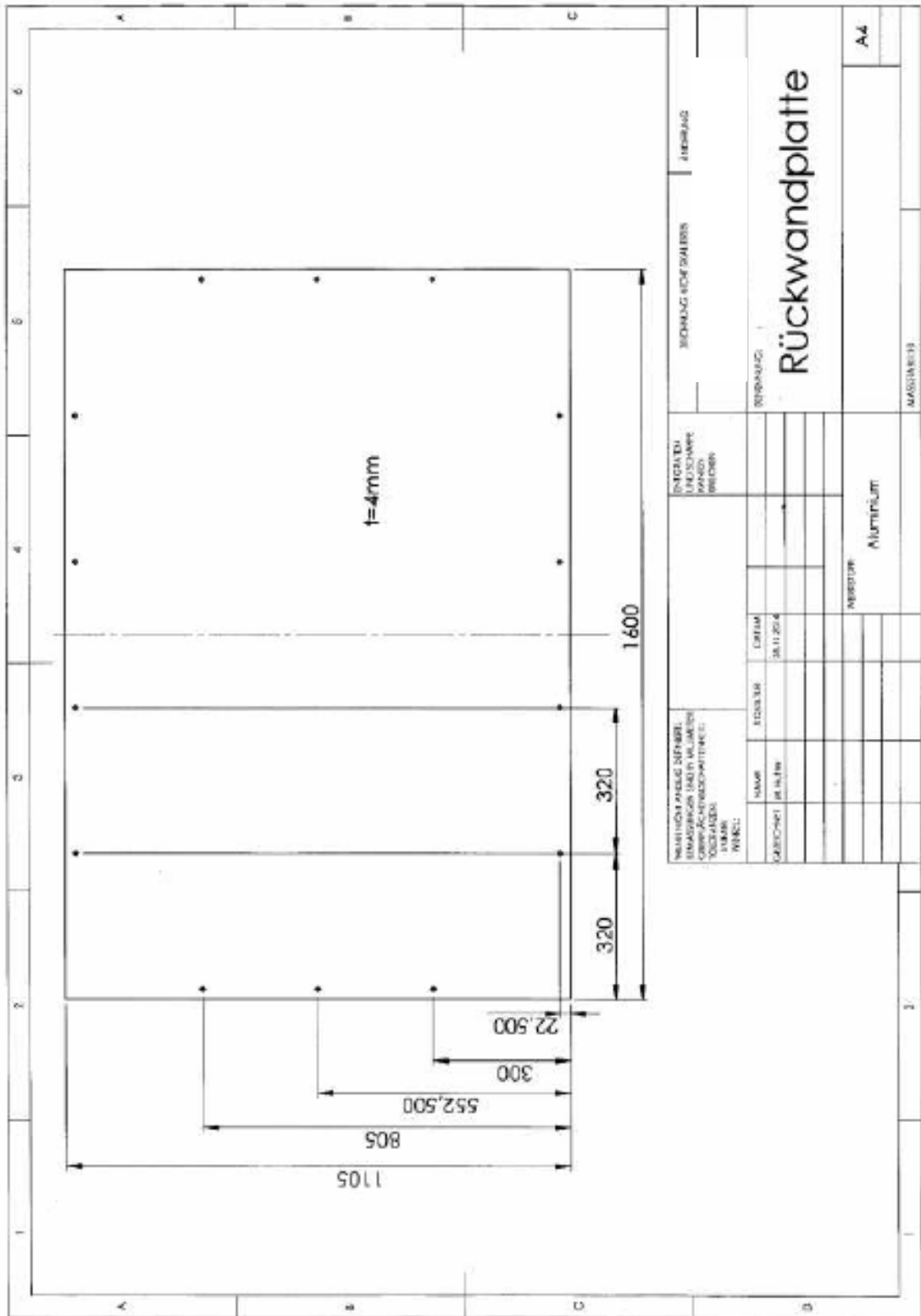
PROJEKTLEITER:
 Name: ...
 Matrikel-Nr.: ...

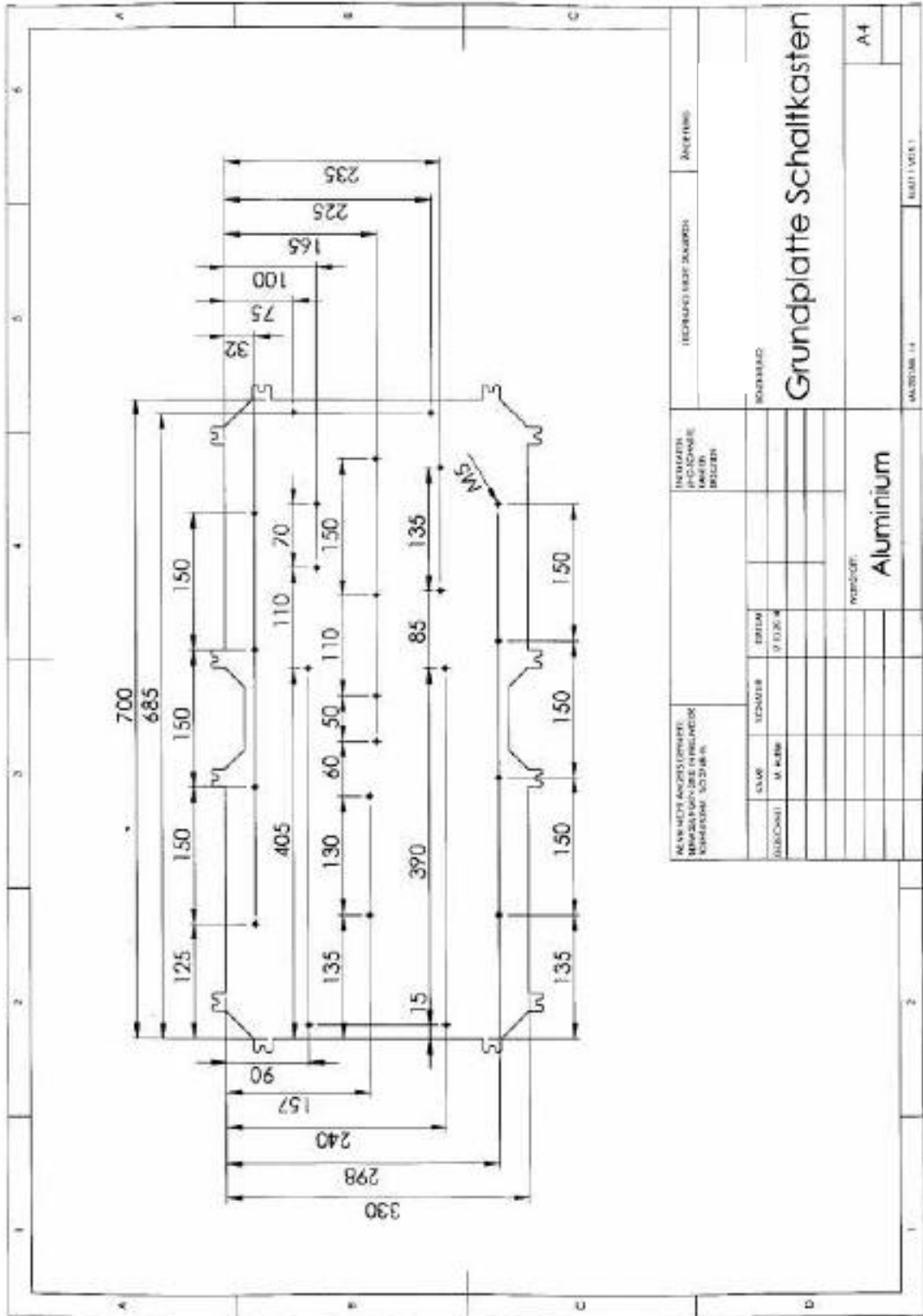
Pneumatikplan



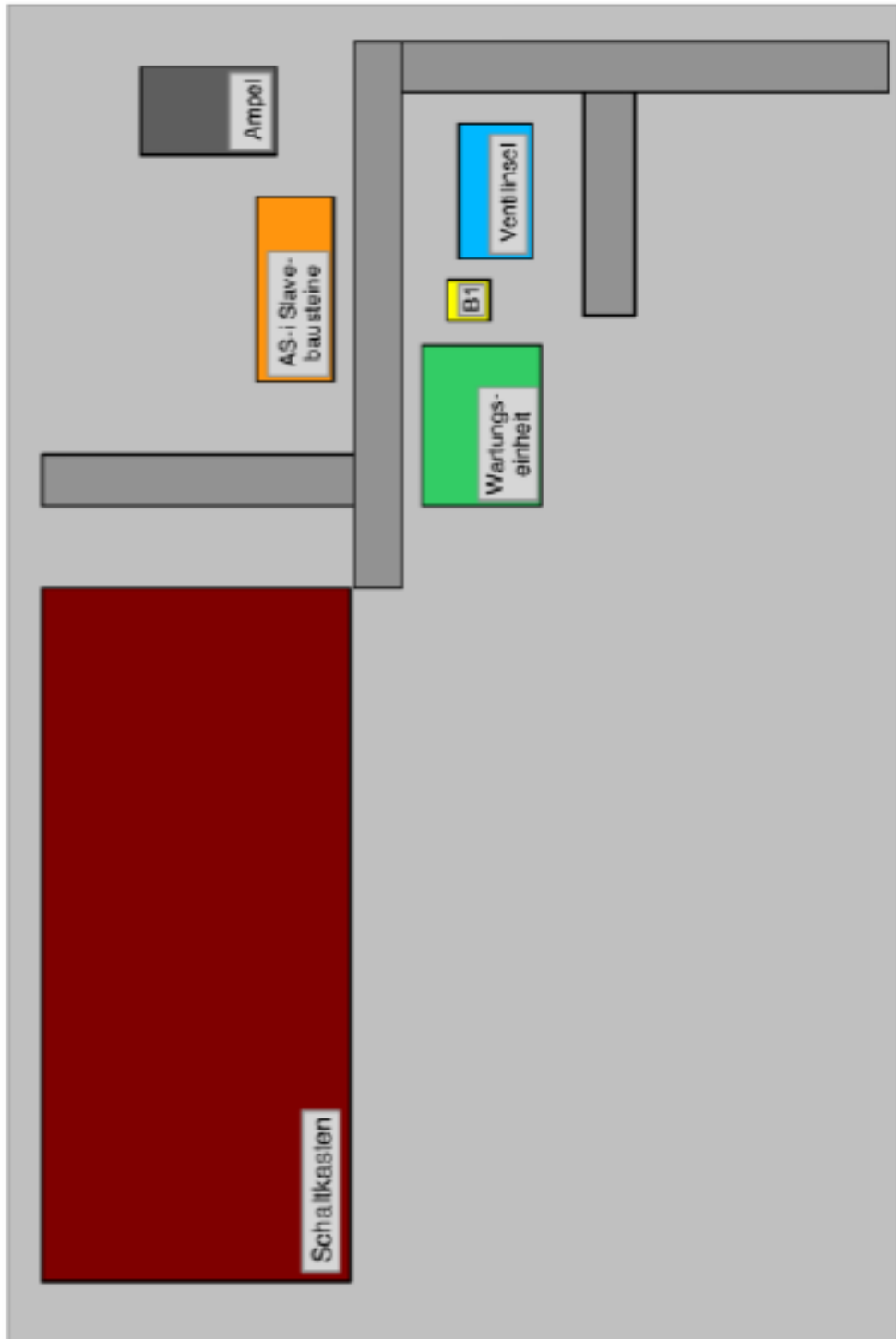








Gesamt-Lageplan



BGVA3-Protokoll

IH - Auftrag / Vorgänge

BGVA3 Prüfung der Prüfgestelle (Mechatr)

| Allgemeine Daten | | | |
|------------------|--------------|-----------------|------------------|
| Auftrag | : 14141725 | Meldung | : 10623124 |
| Eckstarttermin | : 26.11.2014 | Meldungsdatum | : 25.11.2014 |
| Auftragsart | : 2203 | Meldungsart | : 11 |
| IHLstArt | : Wartung | Meldender | : 3458, GLAS |
| Kontierungstyp | : KST | Status | : MAUF MIAR MMDR |
| Abrechng.empf. | : 170 | Verantw. ArbPl. | : IH-M-SAC |
| Übergeord.Aufr. | : | Verantwortl. | : Richard Glas |
| Priorität | : | Priority | : |

Vorgänge

BGVA3 Prüfung der Prüfgestelle (Mechatr)
25.11.2014 11:19:31 Richard Glas (TAN8581) Tel. 08914893458
-prüfen der beiden Abschlussprüfungen in der Mechatroniker Ausbildung

0020 BGV A3 Prüfung ortsfest durchführen

Früh. Startdatum: 26.11.2014 Spät. Enddatum: 25.11.2014 Arbeit: 0,0 H
Arbeitsplatz : ELWA-BGV Steuerschlüssel: IH01 Anz.: 0 Dauer: 0,0 H
BGV A3 Prüfung ortsfest durchführen

an Inventarnummer: Kat.170 Vorrichtung2
Hersteller der Anlage: -----
Maschine ist Kategorie: 1

Ansprechpartner ist Hr. Glas Abt. TISE tel.089/1489-3458

0030 Prüfprotokoll BGV A3 und TRBS 2153:

Früh. Startdatum: 26.11.2014 Spät. Enddatum: 26.11.2014 Arbeit: 0,0 H
Arbeitsplatz : IH-M-SAC Steuerschlüssel: IH01 Anz.: 0 Dauer: 0,0 H

IH - Auftrag / Vorgänge

BGVA3 Prüfung der Prüfgestelle (Mechatr)

| Allgemeine Daten | |
|-----------------------------|-----------------------------|
| Auftrag : 14141725 | Meldung : 10623124 |
| Eckstarttermin : 26.11.2014 | Meldungsdatum: 25.11.2014 |
| Auftragsart : 2203 | Meldungsart : 11 |
| IHLstArt : Wartung | Meldender : 3458 GLAS |
| Kontierungstyp : KST | Status : MAUF MIAR MMDR |
| Abrechng.empf.: 170 | Verantw. ArbPl.: IH-M-SAC |
| Übergeord.Auftr.: | Verantwortl. : Richard Glas |

Vorgänge

Prüfprotokoll BGVA3 und TRBS 2153:

Ergebnisse der Sichtprüfung:

Ordnungsgemäßer Zustand der Maschine

Mängel Keine Mängel Nicht relevant

Ordnungsgemäßer Zustand der elektrischen Einrichtungen

Mängel Keine Mängel Nicht relevant

Notwendige Kennzeichnungen und Warnschilder vorhanden

Mängel Keine Mängel Nicht relevant

Ergebnisse der Funktionsprüfung:

Bestimmungsgemäße Funktion der Schutzstüren, Abdeckungen

Mängel Keine Mängel Nicht relevant

Bestimmungsgemäße Funktion der Not-Aus Einrichtung, Verriegelungen, Lichtschranken

Mängel Keine Mängel Nicht relevant

Schutz bei Netzausfall und Spannungswiederkehr gegen selbsttätigen Wiederanlauf

Mängel Keine Mängel Nicht relevant

Optische und akustische Warneinrichtungen funktionsfähig

Mängel Keine Mängel Nicht relevant

Ergebnis der RCD -Messung(falls vorhanden):

| | | | |
|--------------------------|---|---|---|
| RCD Nr. | 1. _____ | 2. _____ | 3. _____ |
| Berührungsspannung (UB): | _____ V | _____ V | _____ V |
| Erdwiderstand (re): | _____ Ohm | _____ Ohm | _____ Ohm |
| Auslösezeit (TS): | _____ ms | _____ ms | _____ ms |
| RCD-Einheit in Ordnung? | <input type="checkbox"/> Ja <input type="checkbox"/> Nein | <input type="checkbox"/> Ja <input type="checkbox"/> Nein | <input type="checkbox"/> Ja <input type="checkbox"/> Nein |
| RCD Nr. | 4. _____ | 5. _____ | 6. _____ |
| Berührungsspannung (UB): | _____ V | _____ V | _____ V |
| Erdwiderstand (re): | _____ Ohm | _____ Ohm | _____ Ohm |

Original

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26.11.2014, 10:01:38

IH - Auftrag / Vorgänge

BGVA3 Prüfung der Prüfgestelle (Mechatr)

| Allgemeine Daten | |
|-----------------------------|-----------------------------|
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| Eckstarttermin : 26.11.2014 | Meldungsdatum: 25.11.2014 |
| Auftragsart : 2203 | Meldungsart : 11 |
| IHLstArt : Wartung | Meldender : 3458, GLAS |
| Kontierungstyp : KST | Status : MAUF MIAR MMDR |
| Abrechng.empf. : 170 | Verantw. ArbPl. : IH-M-SAC |
| Übergeord. Auftr.: | Verantwortl. : Richard Glas |

| Vorgänge |
|----------|
|----------|

Auslöseszeit (TS): _____ mS _____ mS _____ mS

RCD-Einheit in Ordnung? () Ja () Nein () Ja () Nein () Ja () Nein

Ergebnisse der Messung nach TRBS 2153

Prüfung des Ableitwiderstandes nach TRBS 2153, für Förderschläuche an Absaugungen und Abscheidern im Rahmen der BGVA 3 Prüfung Ortsfest.

() wird benötigt (x) nicht relevant

| Lf.Nr. | Messpunktbeschreibung ggE, EquipNr. von Abgesaugten ArbPl. | Messwert | Prüfung i.O? | |
|--------|--|-----------|--------------|------|
| | | | Ja | Nein |
| 1 | _____ | _____ Ohm | () | () |
| 2 | _____ | _____ Ohm | () | () |
| 3 | _____ | _____ Ohm | () | () |
| 4 | _____ | _____ Ohm | () | () |
| 5 | _____ | _____ Ohm | () | () |
| 6 | _____ | _____ Ohm | () | () |
| 7 | _____ | _____ Ohm | () | () |
| 8 | _____ | _____ Ohm | () | () |
| 9 | _____ | _____ Ohm | () | () |
| 10 | _____ | _____ Ohm | () | () |

(Datum)

(Prüfer)

(Unterschrift)

Original

Seite 3 von 5

26.11.2014, 10:01:36

IH - Auftrag / Vorgänge

BGVA3 Prüfung der Prüfgestelle (Mechatr)

| Allgemeine Daten | |
|-----------------------------|-----------------------------|
| Auftrag : 14141725 | Meldung : 10623124 |
| Eckstarttermin : 26.11.2014 | Meldungsdatum: 25.11.2014 |
| Auftragsart : 2203 | Meldungsart : 11 |
| IHLstArt : Wartung | Meldender : 3458, GLAS |
| Kontierungstyp : KST | Status : MAUF MIAR MMDR |
| Abrechng.empf. : 170 | Verantw. ArbPl : IH-M-SAC |
| Übergeord.Auftr.: | Verantwortl. : Richard Glas |

| Vorgänge |
|----------|
|----------|

Die Maschine befindet sich in einem ordnungsgemäßen Zustand

Ja Nein

Die Prüfplakete wurde erteilt

Ja Nein

Nächster Prüftermin: 10/2018 (Monat/Jahr)

27.11.14
(Datum)

Richard Glas
(Unterschrift Prüfer)

SAP-Meldungen zur Mängelbehebung: _____

Nachprüfung:

Nachprüfung erfolgt alle Mängel wurden beseitigt: Ja Nein

Prüfplakette erteilt: Ja Nein

(Datum)

(Unterschrift Prüfer)

PRÜFPROTOKOLL FÜR DIE ABNAHME VON ELEKTRISCHEN MASCHINEN

Prüfung der elektrischen Sicherheit der Ausrüstung
elektrischer Maschinen gemäß

DIN VDE 0113 / EN 60204-1 / IEC 204-1

1. Allgemeine Maschinen und Abnahmedaten

Geprüfte Maschine / Anlage : Inv.Nr.000200 Vorrichtung 2

Protokollnummer : 2
Verwendetes Prüfgerät : PROFITEST204 , N 6255 5760
Prüfdatum : 27.11.2014
Prüfer :

Das hier vorliegende Prüfprotokoll bestätigt die sachgemäße Durchführung aller im Rahmen o.g. Normen vorgeschriebener Prüfungen bei der Abnahme o.g. elektrischer Maschine / Anlage.

Die Prüfung wurde von Elektrofachkräften durchgeführt, die der DIN EN 50110-1 / 06.2005, Punkt 3.2.3 genügen.

Die geprüfte Maschine / Anlage erfüllt in allen Punkten die Anforderungen nach DIN VDE 0113 / EN 60204-1 / IEC 204-1

Kommentar:
.....
.....
.....
.....

Heid, den 27.11.2014, Rehner
Ort Unterschrift des Prüfers

ANLAGE: Meßprotokolle

ANLAGE 1: Überprüfung der durchgehenden Verbindung des Schutzleiters.

- Die durchgehende Verbindung des Schutzleiters zu allen berührbaren metallischen Teilen der Maschine / Anlage durch Besichtigung und Prüfung wird bestätigt.
- Die Prüfung wurde durchgeführt zwischen der Anschlußklemme des Schutzleiters und allen berührbaren metallischen Gehäuseteilen und Komponenten der Maschine bzw. Anlage.
- Die Prüfung erfolgte mit Wechselstrom der Netzfrequenz mit einer Stromstärke von mindestens 200mA und einer Leerlaufspannung von weniger als 24 V effektiv. Die Prüfdauer, sowie der Grenzwert des dabei zulässigen Schutzleiterwiderstandes sind bei den einzelnen Meßpunkten aufgeführt.

Insgesamt durchgeführte Schutzleiterprüfungen: 10

Prüfpunkte mit ungenügendem Prüfergebnis:

| Prüfung Nummer: | Spannungsfall | Schutzl.-widerst. | Prüfdauer | Grenzwert | Notiz |
|-----------------|---------------|-------------------|-----------|-----------|-------|
|-----------------|---------------|-------------------|-----------|-----------|-------|

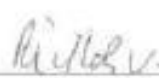
Auflistung aller Prüfpunkte:

| Prüfung Nummer: | Spannungsfall | Schutzl.-widerst. | Prüfdauer | Grenzwert | Notiz |
|-----------------|---------------|-------------------|-----------|-----------|-----------------|
| 1. | 60.00mV | 6.30mOhm | 5.00 s | 427.0mOhm | Test |
| 2. | 40.00mV | 4.20mOhm | 5.00 s | 427.0mOhm | Hutschine PE |
| 3. | 50.00mV | 5.60mOhm | 5.00 s | 427.0mOhm | Hutschine Zul. |
| 4. | 70.00mV | 7.00mOhm | 5.00 s | 427.0mOhm | Hutschine |
| 5. | 30.00mV | 3.10mOhm | 5.00 s | 427.0mOhm | S7 Profilschине |
| 6. | 120.0mV | 19.20mOhm | 5.00 s | 427.0mOhm | Netzteil |
| 7. | 100.0mV | 10.80mOhm | 5.00 s | 427.0mOhm | IFM-Netzteil |
| 8. | 50.00mV | 5.90mOhm | 5.00 s | 427.0mOhm | Montagetisch |
| 9. | 640.0mV | 64.90mOhm | 5.00 s | 427.0mOhm | PE-Zul.Kabel |
| 10. | 90.00mV | 9.00mOhm | 5.00 s | 427.0mOhm | Netzteil 24VDC |

Die geprüfte Maschine / Anlage erfüllt die Anforderungen nach
DIN VDE 0113 / EM 60204-1 / IEC 204-1

Kommentar:

27.11.2014,


Unterschrift des Prüfers

ANLAGE 2: Überprüfung des Isolationswiderstandes

- Die Messung der Isolationswiderstände erfolgte zwischen dem Schutzleiteranschluß und den Phasen-Anschlüssen bei der vom Netz getrennten Maschine bzw. Anlage.
- Der Grenzwert, sowie die Nenn-Prüfspannung ist bei den einzelnen Messungen vermerkt.
- Bei allen Prüfungen wurde ein eingeschwungener Meßwert am Prüfgerätabgewertet.

Insgesamt durchgeführte Isolationsprüfungen: 2

Prüfpunkte mit ungenügendem Prüfergebnis:

| Prüfung Nummer: | Isolations- widerst. | Nenn- Prüfsg. | Grenzwert | Notiz |
|-----------------|-------------------------|------------------|-----------|-------|
|-----------------|-------------------------|------------------|-----------|-------|

Auflistung aller Prüfpunkte:

| Prüfung Nummer: | Isolations- widerst. | Nenn- Prüfsg. | Grenzwert | Notiz |
|-----------------|-------------------------|------------------|-----------|--------|
| 1. | > 1.00GOhm | 500.0 V | 1.00MOhm | Zul.L1 |
| 2. | > 1.00GOhm | 500.0 V | 1.00MOhm | Zul.N |

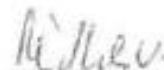
Die geprüfte Maschine / Anlage erfüllt die Anforderungen nach
DIN VDE 0113 / EN 60204-1 / IEC 204-1

Kommentar:

.....

.....

27.11.2014,



Unterschrift des Prüfers

Übergabeprotokoll

Übergabeprotokoll Sortieranlage

Die nachfolgend aufgeführte Sortieranlage und deren Zubehör wurde ordnungsgemäß installiert und die vom Auftraggeber gewünschten Änderungen und Neuerungen vorgenommen. Der unterzeichnende Auftraggeber wurde in die Sortieranlage und deren Zubehör eingewiesen, insbesondere der Sicherheitshinweise.

Anlage: Färbesortieranlage

Übergabetag: 05.12.14

Einstellungen an der Maschine

_____ ✓

Installiertes Zubehör

PC, Bildschirm, Touchpanel

Adresse Auftraggeber

Firma

Nachname, Vorname

Straße Hausnr.

PLZ - Ort

Schankhuber, Manfred



Städtische Berufsschule für
Fertigungsmechanik
Donnystraße 4, 80336 München
Tel. 089 233-35598
Fax 089 233-35600

Die oben aufgeführte Sortieranlage und deren Zubehör wurde ordnungsgemäß aufgebaut und funktionsbereit übergeben. In die Bedienung wurde ich eingewiesen und die Schaltpläne und Montageanleitungen wurden vollständig übergeben.

Datum, Unterschrift des Auftraggebers

5.12.14 Schankhuber, M.

Adresse des Auftragnehmers

_____ (Firmenname)

_____ (Name Auftragnehmers)

_____ (Straße und Hausnr.)

_____ (PLZ - Ort)

Die oben aufgeführte Sortieranlage und deren Zubehör wurde ordnungsgemäß aufgebaut und funktionsbereit übergeben. In die Bedienung wurde ich eingewiesen und die Schaltpläne und Montageanleitungen wurden vollständig übergeben.

Datum, Unterschrift des Auftragnehmers

M. Schankhuber

Durchführungsprotokoll

Protokoll über die Durchführung des betrieblichen Auftrags

Ich bestätige hiermit, dass ich die Dokumentation des betrieblichen Auftrags (Anlage zur Sortierung von Blechen mit verschiedenen Farben) selbstständig und ohne fremde Hilfe erstellt habe.

Der betriebliche Auftrag wurde in der geplanten Zeit komplett fertiggestellt (einschließlich eventueller Nacharbeit).

Der betriebliche Auftrag wurde selbstständig und ohne fremde Hilfe ausgeführt.

Datum: 28.11.2014

Unterschrift des Prüfungsteilnehmers: 

Unterschrift des Auftragsverantwortlichen: 

SPS-Testprogramm

| | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---------|----------|-----------------|--------------------|------------------------|------|-----|-------|------------|----------|--|----------|---------|----------|-----------------|--------------------|-----------|------|------|-------|--|-----------|--------------|--------------|------|------|-------|----------|-----------|---------|-------|------|------|-----------|--|---------|------|------------------------|------|------|-------|--|------|------|------------------------|------|------|-------|--|------|------|------|------|------|-------|--|------|------|---------------------|------|------|-------|--|------|------|---------|----------------|------|-------|--|------|------|-------------|---------|------|-------|--|------|------|---------------|---------|------|-------|--|------|------|---------------|---------|------|-------|--|------|------|---------------|------|------|-------|--|------|------|------------------|------|------|-------|--|------|------|------------|------|------|-------|--|------|------|------------|------|------|-------|--|------|------|-----------|-------|------|-------|--|------|------|------------|-------|------|-------|--|------|------|-----------|-------|------|-------|--|------|------|-----------|-------|------|-------|--|------|------|---------------------|-------|------|-------|--|------|------|-------------|-------|------|-------|--|------|------|------------------|-------|------|-------|--|------|------|---------------|-------|------|-------|--|------|------|---------------|-------|------|-------|--|------|------|---------------------|-------|------|-------|--|------|------|---------------------|-------|------|-------|--|------|------|---------------------|-------|------|-------|--|------|------|----------------------|-------|------|-------|--|------|------|---------------------|-------|------|-------|--|------|------|----------------------|-------|------|-------|--|------|------|---------------|
| A | <p style="margin: 0;">Standard-Variablentabelle [53]</p> <p style="margin: 0;">PLC-Variablen</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="background-color: #cccccc;">PLC-Variablen</th> </tr> <tr> <th style="width: 15%;">Name</th> <th style="width: 15%;">Datentyp</th> <th style="width: 15%;">Adresse</th> <th style="width: 10%;">Remanenz</th> <th style="width: 10%;">Sichtbar in HMI</th> <th style="width: 10%;">Erreichbar aus HMI</th> <th style="width: 35%;">Kommentar</th> </tr> </thead> <tbody> <tr><td>← A1</td><td>Bool</td><td>%E2.0</td><td></td><td>True</td><td>True</td><td>Not-Aus o.k.</td></tr> <tr><td>← S2</td><td>Bool</td><td>%E2.1</td><td></td><td>True</td><td>True</td><td>Stopt</td></tr> <tr><td>← S3</td><td>Bool</td><td>%E2.2</td><td></td><td>True</td><td>True</td><td>Stopp in jedem Schritt</td></tr> <tr><td>← S4</td><td>Bool</td><td>%E2.3</td><td></td><td>True</td><td>True</td><td>Betriebsart: Tipp/Auto</td></tr> <tr><td>← S5</td><td>Bool</td><td>%E2.4</td><td></td><td>True</td><td>True</td><td>Tipp</td></tr> <tr><td>← S6</td><td>Bool</td><td>%E2.5</td><td></td><td>True</td><td>True</td><td>Stopp am Zyklusende</td></tr> <tr><td>← S7</td><td>Bool</td><td>%E2.6</td><td></td><td>True</td><td>True</td><td>Richten</td></tr> <tr><td>← B1 (Digital)</td><td>Bool</td><td>%E2.7</td><td></td><td>True</td><td>True</td><td>Drucksensor</td></tr> <tr><td>← E2(1)</td><td>Bool</td><td>%E3.0</td><td></td><td>True</td><td>True</td><td>Farbsensor A1</td></tr> <tr><td>← E2(2)</td><td>Bool</td><td>%E3.1</td><td></td><td>True</td><td>True</td><td>Farbsensor A2</td></tr> <tr><td>← E2(3)</td><td>Bool</td><td>%E3.2</td><td></td><td>True</td><td>True</td><td>Farbsensor A3</td></tr> <tr><td>← F0</td><td>Bool</td><td>%A0.0</td><td></td><td>True</td><td>True</td><td>Lampe Start Grün</td></tr> <tr><td>← P1</td><td>Bool</td><td>%A0.1</td><td></td><td>True</td><td>True</td><td>Lampe Grün</td></tr> <tr><td>← P2</td><td>Bool</td><td>%A0.2</td><td></td><td>True</td><td>True</td><td>Lampe Gelb</td></tr> <tr><td>← P3</td><td>Bool</td><td>%A0.3</td><td></td><td>True</td><td>True</td><td>Lampe Rot</td></tr> <tr><td>← 1B1</td><td>Bool</td><td>%E4.0</td><td></td><td>True</td><td>True</td><td>1A1 rechts</td></tr> <tr><td>← 1B2</td><td>Bool</td><td>%E4.1</td><td></td><td>True</td><td>True</td><td>1A1 mitte</td></tr> <tr><td>← 1B3</td><td>Bool</td><td>%E4.2</td><td></td><td>True</td><td>True</td><td>1A1 links</td></tr> <tr><td>← 2B1</td><td>Bool</td><td>%E4.3</td><td></td><td>True</td><td>True</td><td>2A1 hintere Endlage</td></tr> <tr><td>← 0M1</td><td>Bool</td><td>%A5.0</td><td></td><td>True</td><td>True</td><td>Hauptventil</td></tr> <tr><td>← 1M1</td><td>Bool</td><td>%A5.1</td><td></td><td>True</td><td>True</td><td>Dröszylinder 1A1</td></tr> <tr><td>← 2M1</td><td>Bool</td><td>%A5.2</td><td></td><td>True</td><td>True</td><td>2A1 ausfahren</td></tr> <tr><td>← 2M2</td><td>Bool</td><td>%A5.3</td><td></td><td>True</td><td>True</td><td>2A1 einziehen</td></tr> <tr><td>← 2B2</td><td>Bool</td><td>%E5.4</td><td></td><td>True</td><td>True</td><td>2A1 vordere Endlage</td></tr> <tr><td>← 3B1</td><td>Bool</td><td>%E5.5</td><td></td><td>True</td><td>True</td><td>3B1 hintere Endlage</td></tr> <tr><td>← 3B2</td><td>Bool</td><td>%E5.6</td><td></td><td>True</td><td>True</td><td>3B2 vordere Endlage</td></tr> <tr><td>← 3M1</td><td>Bool</td><td>%A6.4</td><td></td><td>True</td><td>True</td><td>Vertikalzylinder 3A1</td></tr> <tr><td>← 4M1</td><td>Bool</td><td>%A6.5</td><td></td><td>True</td><td>True</td><td>4M1 Vakuumsauger an</td></tr> <tr><td>← 4M2</td><td>Bool</td><td>%A6.6</td><td></td><td>True</td><td>True</td><td>4M2 Vakuumsauger aus</td></tr> <tr><td>← 5M1</td><td>Bool</td><td>%A6.7</td><td></td><td>True</td><td>True</td><td>Stoppzylinder</td></tr> </tbody> </table> | | | | PLC-Variablen | | | | | | | Name | Datentyp | Adresse | Remanenz | Sichtbar in HMI | Erreichbar aus HMI | Kommentar | ← A1 | Bool | %E2.0 | | True | True | Not-Aus o.k. | ← S2 | Bool | %E2.1 | | True | True | Stopt | ← S3 | Bool | %E2.2 | | True | True | Stopp in jedem Schritt | ← S4 | Bool | %E2.3 | | True | True | Betriebsart: Tipp/Auto | ← S5 | Bool | %E2.4 | | True | True | Tipp | ← S6 | Bool | %E2.5 | | True | True | Stopp am Zyklusende | ← S7 | Bool | %E2.6 | | True | True | Richten | ← B1 (Digital) | Bool | %E2.7 | | True | True | Drucksensor | ← E2(1) | Bool | %E3.0 | | True | True | Farbsensor A1 | ← E2(2) | Bool | %E3.1 | | True | True | Farbsensor A2 | ← E2(3) | Bool | %E3.2 | | True | True | Farbsensor A3 | ← F0 | Bool | %A0.0 | | True | True | Lampe Start Grün | ← P1 | Bool | %A0.1 | | True | True | Lampe Grün | ← P2 | Bool | %A0.2 | | True | True | Lampe Gelb | ← P3 | Bool | %A0.3 | | True | True | Lampe Rot | ← 1B1 | Bool | %E4.0 | | True | True | 1A1 rechts | ← 1B2 | Bool | %E4.1 | | True | True | 1A1 mitte | ← 1B3 | Bool | %E4.2 | | True | True | 1A1 links | ← 2B1 | Bool | %E4.3 | | True | True | 2A1 hintere Endlage | ← 0M1 | Bool | %A5.0 | | True | True | Hauptventil | ← 1M1 | Bool | %A5.1 | | True | True | Dröszylinder 1A1 | ← 2M1 | Bool | %A5.2 | | True | True | 2A1 ausfahren | ← 2M2 | Bool | %A5.3 | | True | True | 2A1 einziehen | ← 2B2 | Bool | %E5.4 | | True | True | 2A1 vordere Endlage | ← 3B1 | Bool | %E5.5 | | True | True | 3B1 hintere Endlage | ← 3B2 | Bool | %E5.6 | | True | True | 3B2 vordere Endlage | ← 3M1 | Bool | %A6.4 | | True | True | Vertikalzylinder 3A1 | ← 4M1 | Bool | %A6.5 | | True | True | 4M1 Vakuumsauger an | ← 4M2 | Bool | %A6.6 | | True | True | 4M2 Vakuumsauger aus | ← 5M1 | Bool | %A6.7 | | True | True | Stoppzylinder |
| PLC-Variablen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | Datentyp | Adresse | Remanenz | Sichtbar in HMI | Erreichbar aus HMI | Kommentar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← A1 | Bool | %E2.0 | | True | True | Not-Aus o.k. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← S2 | Bool | %E2.1 | | True | True | Stopt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← S3 | Bool | %E2.2 | | True | True | Stopp in jedem Schritt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← S4 | Bool | %E2.3 | | True | True | Betriebsart: Tipp/Auto | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← S5 | Bool | %E2.4 | | True | True | Tipp | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← S6 | Bool | %E2.5 | | True | True | Stopp am Zyklusende | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← S7 | Bool | %E2.6 | | True | True | Richten | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← B1 (Digital) | Bool | %E2.7 | | True | True | Drucksensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← E2(1) | Bool | %E3.0 | | True | True | Farbsensor A1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← E2(2) | Bool | %E3.1 | | True | True | Farbsensor A2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← E2(3) | Bool | %E3.2 | | True | True | Farbsensor A3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← F0 | Bool | %A0.0 | | True | True | Lampe Start Grün | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← P1 | Bool | %A0.1 | | True | True | Lampe Grün | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← P2 | Bool | %A0.2 | | True | True | Lampe Gelb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← P3 | Bool | %A0.3 | | True | True | Lampe Rot | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 1B1 | Bool | %E4.0 | | True | True | 1A1 rechts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 1B2 | Bool | %E4.1 | | True | True | 1A1 mitte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 1B3 | Bool | %E4.2 | | True | True | 1A1 links | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 2B1 | Bool | %E4.3 | | True | True | 2A1 hintere Endlage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 0M1 | Bool | %A5.0 | | True | True | Hauptventil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 1M1 | Bool | %A5.1 | | True | True | Dröszylinder 1A1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 2M1 | Bool | %A5.2 | | True | True | 2A1 ausfahren | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 2M2 | Bool | %A5.3 | | True | True | 2A1 einziehen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 2B2 | Bool | %E5.4 | | True | True | 2A1 vordere Endlage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 3B1 | Bool | %E5.5 | | True | True | 3B1 hintere Endlage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 3B2 | Bool | %E5.6 | | True | True | 3B2 vordere Endlage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 3M1 | Bool | %A6.4 | | True | True | Vertikalzylinder 3A1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 4M1 | Bool | %A6.5 | | True | True | 4M1 Vakuumsauger an | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 4M2 | Bool | %A6.6 | | True | True | 4M2 Vakuumsauger aus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ← 5M1 | Bool | %A6.7 | | True | True | Stoppzylinder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| F | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Name</td> <td>Testprogramm</td> <td style="width: 30%;">Rev.</td> <td>001</td> <td style="width: 30%;">Datum</td> <td>30.11.2014</td> </tr> <tr> <td>Struktur</td> <td colspan="5">C:\Users\Schüler\Desktop\Testprogramm\Testprogramm</td> </tr> <tr> <td>Umfeld</td> <td colspan="5">Ladepult</td> </tr> <tr> <td>Umfeld-ID</td> <td colspan="5">Schaltplan 1</td> </tr> <tr> <td>Erstellt</td> <td>Schneider</td> <td>Projekt</td> <td colspan="3">de-DE</td> </tr> <tr> <td>Revidiert</td> <td></td> <td>Version</td> <td>001</td> <td>Rev. ↑ - ↓</td> <td></td> </tr> </table> | | | | Name | Testprogramm | Rev. | 001 | Datum | 30.11.2014 | Struktur | C:\Users\Schüler\Desktop\Testprogramm\Testprogramm | | | | | Umfeld | Ladepult | | | | | Umfeld-ID | Schaltplan 1 | | | | | Erstellt | Schneider | Projekt | de-DE | | | Revidiert | | Version | 001 | Rev. ↑ - ↓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| F | NAME | Projektname Testprogramm | | date 30.11.2014 | |
| | Operator | C:\Users\Schüler\Desktop\Testprogramm\Testprogramm | | | |
| | DesignID | ID:0000018 | | | |
| | Created By | Created Date | Language | de-DE | |
| | Reviewed By | Reviewed Date | Version | 1 - 2 | |

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|---|---------------------------|----------------------------|--|---|
| | 1 | 2 | 3 | 4 |
| A | Programmbausteine | | | |
| | Main [OB1] | | | |
| | Main Eigenschaften | | | |
| | Allgemein | | | |
| | Name | Main | Nummer | 1 |
| | Typ | OB | Sprache | AVL |
| | Information | | | |
| | Titel | Main Program Sweep (Cycle) | Autor | |
| | Kommentar | | Familie | |
| B | Version | 0.1 | Anwendungsdefinierte ID | |
| | Name | | | |
| | | Deletyp | Offset | Kommentar |
| | ▼ Temp | | | |
| | OB1_EV_CLASS | Byte | 0.0 | Bits 0-3 = 1 (Coming event), Bits 4-7 = 1 (Event class 1) |
| | OB1_SCAN_1 | Byte | 1.0 | 1 (Cold restart scan 1 of OB1), 2 (Scan 2-n of OB1) |
| | OB1_PRIORITY | Byte | 2.0 | Priority of OBExecution |
| | OB1_OR_NUMBR | Byte | 3.0 | 1 (Organization block 1, OB1) |
| C | OB1_RESERVED_1 | Byte | 4.0 | Reserved for system |
| | OB1_RESERVED_2 | Byte | 5.0 | Reserved for system |
| | OB1_PREV_CYCLE | int | 8.0 | Cycle time of previous OB1 scan (milliseconds) |
| | OB1_MIN_CYCLE | int | 9.0 | Minimum cycle time of OB1 (milliseconds) |
| | OB1_MAX_CYCLE | int | 10.0 | Maximum cycle time of OB1 (milliseconds) |
| | OB1_DATE_TIME | Date_And_Time | 12.0 | Date and time OB1 started |
| | Netzwerk 1: | | | |
| D | 0001 | CALL | "Betriebsarten Merker" | |
| | 0002 | CALL | "Schrittkette" | |
| | 0003 | CALL | "Ausgabeteil" | |
| | 0004 | CALL | "Melde teil" | |
| | 0005 | | | |
| | Symbol | Adresse | Typ | Kommentar |
| | "Betriebsarten Merker" | %FC1 | Block_FC | |
| | "Schrittkette" | %FC2 | Block_FC | |
| | "Ausgabeteil" | %FC3 | Block_FC | |
| | "Melde teil" | %FC4 | Block_FC | |
| E | | | | |
| F | Objekt | Projektname | Testprogramm | Dat: 30.11.2014 |
| | Erstellt | Erstellt von | C:\Users\Schüler\Desktop\Testprogramm\Testprogramm | |
| | Erstellt | Erstellt | | |
| | Erstellt | Erstellt | | |
| | Erstellt | Erstellt | Language | de-DE |
| | Erstellt | Erstellt | Version | Seite 1 - 1 |

| | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| A | Programmbausteine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Betriebsarten Merker [FC1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Betriebsarten Merker Eigenschaften | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Allgemein | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Name | Betriebsarten Merker | Nummer | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Typ | FC | Sprache | FUP | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Titel | | Autor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | Kommentar | | Familie | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Version | 0.1 | Anwenderdefinierte ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Name | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Deletentyp | Offset | Kommentar | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Betriebsarten Merker | Void | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | Netzwerk 1: Startmerker | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | <table border="1"> <thead> <tr> <th>Symbol</th> <th>Adresse</th> <th>Typ</th> <th>Kommentar</th> </tr> </thead> <tbody> <tr> <td>"Startmerker"</td> <td>%E0.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"S2"</td> <td>%E2.1</td> <td>Bool</td> <td>Start</td> </tr> <tr> <td>"ZB1"</td> <td>%E4.3</td> <td>Bool</td> <td>ZB1 hintere Endlage</td> </tr> <tr> <td>"ZB1"</td> <td>%E5.5</td> <td>Bool</td> <td>ZB1 hintere Endlage</td> </tr> <tr> <td>"HBI"</td> <td>%E4.6</td> <td>Bool</td> <td>TA1 rechts</td> </tr> <tr> <td>"Dr(Digital)"</td> <td>%E7</td> <td>Bool</td> <td>Druckensensor</td> </tr> </tbody> </table> | | | | Symbol | Adresse | Typ | Kommentar | "Startmerker" | %E0.0 | Bool | | "S2" | %E2.1 | Bool | Start | "ZB1" | %E4.3 | Bool | ZB1 hintere Endlage | "ZB1" | %E5.5 | Bool | ZB1 hintere Endlage | "HBI" | %E4.6 | Bool | TA1 rechts | "Dr(Digital)" | %E7 | Bool | Druckensensor |
| Symbol | Adresse | Typ | Kommentar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Startmerker" | %E0.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "S2" | %E2.1 | Bool | Start | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| "HBI" | %E4.6 | Bool | TA1 rechts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Dr(Digital)" | %E7 | Bool | Druckensensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | Netzwerk 2: Stoppmerker | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | DokNr: Testprogramm | | Datum: 30.11.2014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Erstellt By</td> <td style="width: 50%;">Erstellt Am</td> </tr> <tr> <td></td> <td></td> </tr> </table> | | Erstellt By | Erstellt Am | | | | | | | | | | | | | | | | | | | | | | | |
| Erstellt By | Erstellt Am | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Sprache | Sprache | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Version | Version | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | bin 2 - 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| A | <h2>Programmbausteine</h2> <h3>Schrittke [FC2]</h3> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Schrittke Eigenschaften | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Allgemein | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | Schrittke | Nummer | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Typ | FC | Sprache | FUP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Titel | | Autor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kommentar | | Familie | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Name | Datentyp | Offset | Kommentar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Temp | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ▼ Return | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schrittke | Void | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | <h3>Netzwerk 1: 2A1 ausfahren</h3> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| E | <h3>Netzwerk 2: 3A1 ausfahren</h3> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Objekt | Objektgröße | Ladder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Objekt | ObjektID | Objekt | Objekt | Blk 3 - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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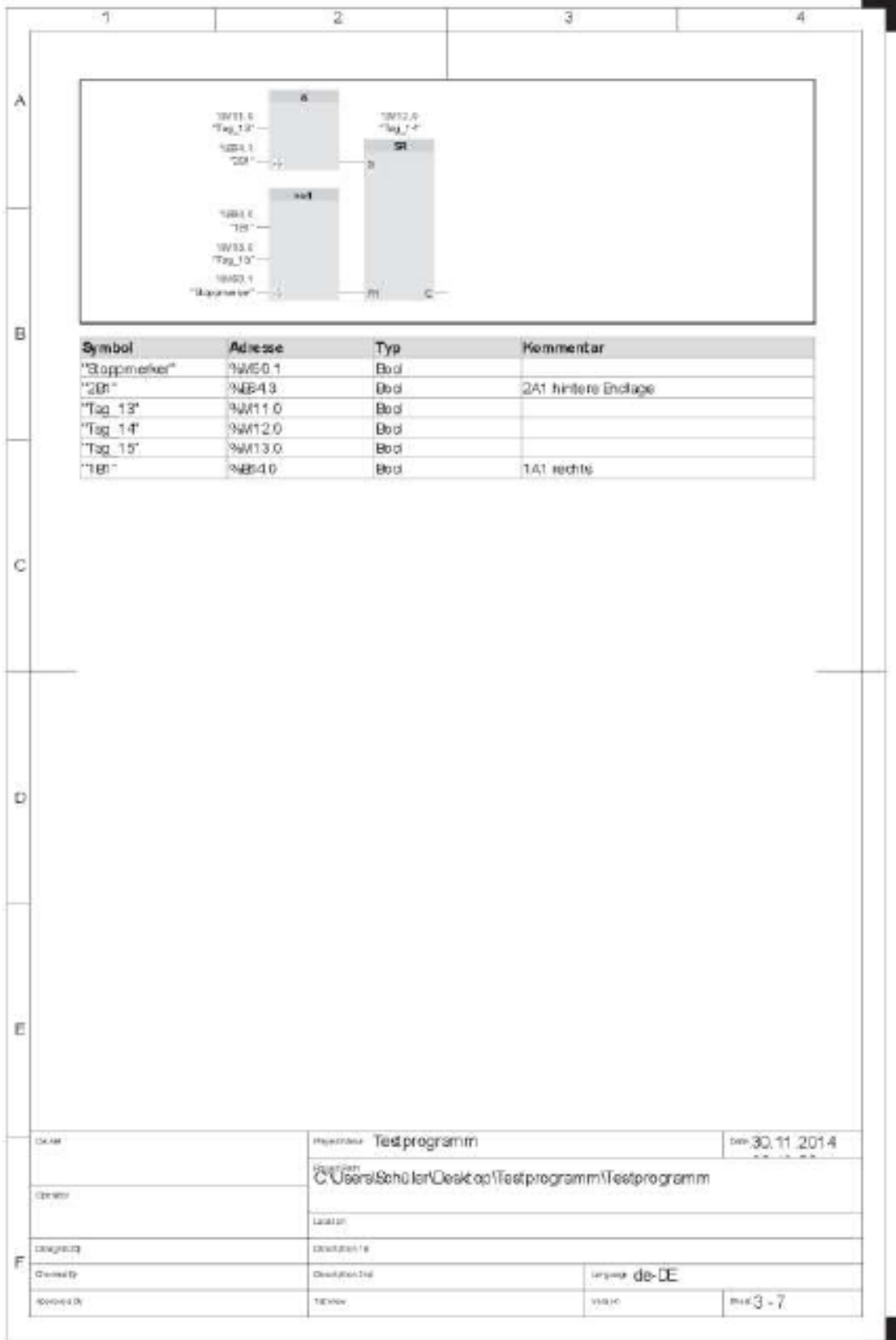
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| | Netzwerk 3: Sauger ein | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Diagramm | Diagramm 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Symbolik | Tabelle | Blatt 3 - 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Datei | Projektname | Testprogramm | Rev. 30.11.2014 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operator | Operator | C:\Users\schuler\Desktop\Testprogramm\Testprogramm | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Created By | Created By | Language | de-DE | | | | | | | | | | | | | | | | | | | | | | | | | |
| Revised By | Revised By | Version | Rev. 3 - 3 | | | | | | | | | | | | | | | | | | | | | | | | | |

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| A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Symbol</th> <th>Adresse</th> <th>Typ</th> <th>Kommentar</th> </tr> </thead> <tbody> <tr> <td>"Stoppmarker"</td> <td>%M5.0.1</td> <td>Bool</td> <td></td> </tr> <tr> <td>"Tag_6"</td> <td>%M5.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"2B1"</td> <td>%EB4.3</td> <td>Bool</td> <td>2A1 hintere Endlage</td> </tr> <tr> <td>"Tag_8"</td> <td>%M7.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"Tag_18"</td> <td>%M16.0</td> <td>Bool</td> <td></td> </tr> </tbody> </table> <p>Netzwerk 7: 2A1 ausfahren</p> | | | Symbol | Adresse | Typ | Kommentar | "Stoppmarker" | %M5.0.1 | Bool | | "Tag_6" | %M5.0 | Bool | | "2B1" | %EB4.3 | Bool | 2A1 hintere Endlage | "Tag_8" | %M7.0 | Bool | | "Tag_18" | %M16.0 | Bool | | | | | |
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| "2B1" | %EB4.3 | Bool | 2A1 hintere Endlage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| "Tag_18" | %M16.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Symbol</th> <th>Adresse</th> <th>Typ</th> <th>Kommentar</th> </tr> </thead> <tbody> <tr> <td>"Stoppmarker"</td> <td>%M5.0.1</td> <td>Bool</td> <td></td> </tr> <tr> <td>"Tag_8"</td> <td>%M7.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"Tag_9"</td> <td>%M6.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"Tag_17"</td> <td>%T3</td> <td>Timer</td> <td></td> </tr> <tr> <td>"Tag_18"</td> <td>%M16.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"1EE"</td> <td>%EB4.1</td> <td>Bool</td> <td>1A1 mitte</td> </tr> </tbody> </table> <p>Netzwerk 8: 3A1 ausfahren</p> | | | Symbol | Adresse | Typ | Kommentar | "Stoppmarker" | %M5.0.1 | Bool | | "Tag_8" | %M7.0 | Bool | | "Tag_9" | %M6.0 | Bool | | "Tag_17" | %T3 | Timer | | "Tag_18" | %M16.0 | Bool | | "1EE" | %EB4.1 | Bool | 1A1 mitte |
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| "Tag_9" | %M6.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_17" | %T3 | Timer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_18" | %M16.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "1EE" | %EB4.1 | Bool | 1A1 mitte | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Datei</td> <td style="width:33%;">Projektname: Testprogramm</td> <td style="width:34%;">Datum: 30.11.2014</td> </tr> <tr> <td>Ordner</td> <td colspan="2">Dateipfad: C:\Users\schu\ler\Desktop\Testprogramm\Testprogramm</td> </tr> <tr> <td>Diagramm</td> <td colspan="2">Diagramm-ID:</td> </tr> <tr> <td>Created By</td> <td>Created By: Test</td> <td>Language: de-DE</td> </tr> <tr> <td>Revised By</td> <td>Revised:</td> <td>Version: 3 - 4</td> </tr> </table> | | | Datei | Projektname: Testprogramm | Datum: 30.11.2014 | Ordner | Dateipfad: C:\Users\schu\ler\Desktop\Testprogramm\Testprogramm | | Diagramm | Diagramm-ID: | | Created By | Created By: Test | Language: de-DE | Revised By | Revised: | Version: 3 - 4 | | | | | | | | | | | | | |
| Datei | Projektname: Testprogramm | Datum: 30.11.2014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Diagramm | Diagramm-ID: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Created By | Created By: Test | Language: de-DE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Revised By | Revised: | Version: 3 - 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

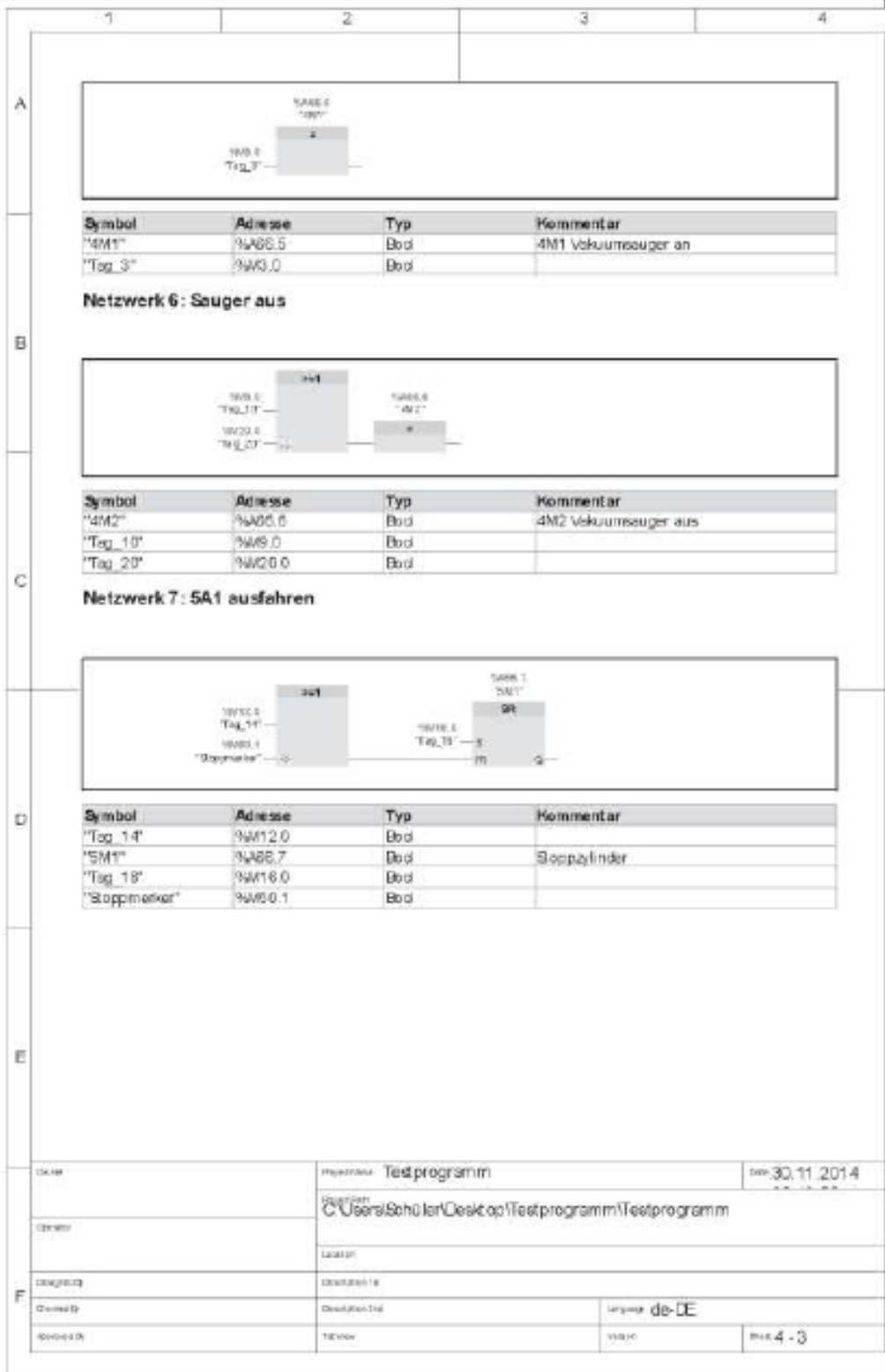
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| A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Symbol | Adresse | Typ | Kommentar | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Stopmeyer" | 3W50.1 | Boo | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "2B" | 3W55.4 | Boo | 2A1 vordere Endlage | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_8" | 3W7.0 | Boo | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_9" | 3W6.0 | Boo | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_10" | 3W9.0 | Boo | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Netzwerk 9: Sauger aus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | <table border="1"> <thead> <tr> <th>Symbol</th> <th>Adresse</th> <th>Typ</th> <th>Kommentar</th> </tr> </thead> <tbody> <tr> <td>"Stopmeyer"</td> <td>3W50.1</td> <td>Boo</td> <td></td> </tr> <tr> <td>"3B2"</td> <td>3W55.6</td> <td>Boo</td> <td>3B2 vordere Endlage</td> </tr> <tr> <td>"Tag_9"</td> <td>3W6.0</td> <td>Boo</td> <td></td> </tr> <tr> <td>"Tag_10"</td> <td>3W9.0</td> <td>Boo</td> <td></td> </tr> <tr> <td>"Tag_12"</td> <td>3W10.0</td> <td>Boo</td> <td></td> </tr> </tbody> </table> | | | | Symbol | Adresse | Typ | Kommentar | "Stopmeyer" | 3W50.1 | Boo | | "3B2" | 3W55.6 | Boo | 3B2 vordere Endlage | "Tag_9" | 3W6.0 | Boo | | "Tag_10" | 3W9.0 | Boo | | "Tag_12" | 3W10.0 | Boo | |
| Symbol | Adresse | Typ | Kommentar | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Stopmeyer" | 3W50.1 | Boo | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| "Tag_12" | 3W10.0 | Boo | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Netzwerk 10: 3A1 einfahren | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | NAME Creator Design-Obj Created by Approved by | Projektname: Testprogramm C:\Users\Schüler\Desktop\Testprogramm\Testprogramm Location Description: 18 Description-Datei Revision | Date: 30.11.2014 Version: 1.0 Language: de-DE Status: | Blatt 3 - 5 | | | | | | | | | | | | | | | | | | | | | | | | |

| | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|-----------------|---------------------|---|--------|------------------------|-----------------|-----------|--|--------|----------|--------------|------------------|--------|--------------|---------------------|-------------------|--------|--------------|--|-------------------|--------|-------|--|-------------------|--------|------|--|
| A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| "Tag_11" / %M11.0 | %M11.0 | Timer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_13" / %M11.0 | %M11.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| "3B1" / %B5.5 | %B5.5 | Bool | 3B1 hintere Endlage | | | | | | | | | | | | | | | | | | | | | | | | | |
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| "Tag_14" / %M12.0 | %M12.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Datei | Programm: Testprogramm | Rev: 30.11.2014 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operator | C:\Users\Schüler\Desktop\Testprogramm\Testprogramm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagramm | Beschreibung | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemie | Beschreibung | Version: de-DE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Speicherort | Titel | Blatt: 3 - 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |



| | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--|-----------------------|------------------|--|-----------|----------|--------|-----------|-------|-------------|--------|------------------|----------|--------|---------|-----|-------------|--------|------|--|---------------|--------|-------|--|-----------|--|---------|--|-------------|------|-----------------------|--|
| A | <h2>Programmbausteine</h2> <h3>Ausgabeteil [FC3]</h3> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | Ausgabeteil Eigenschaften | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Allgemein | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | Ausgabeteil | Nummer | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Typ | FC | Sprache | FUP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Titel | | Autor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kommentar | | Familie | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Version | 0.1 | Anwenderdefinierte ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | <table border="1"> <thead> <tr> <th>Name</th> <th>Datentyp</th> <th>Offset</th> <th>Kommentar</th> </tr> </thead> <tbody> <tr> <td>input</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Output</td> <td></td> <td></td> <td></td> </tr> <tr> <td>inOut</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Temp</td> <td></td> <td></td> <td></td> </tr> <tr> <td>▼ Return</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Ausgabeteil</td> <td>Void</td> <td></td> <td></td> </tr> </tbody> </table> | | | | Name | Datentyp | Offset | Kommentar | input | | | | Output | | | | inOut | | | | Temp | | | | ▼ Return | | | | Ausgabeteil | Void | | |
| | Name | Datentyp | Offset | Kommentar | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| inOut | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temp | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ▼ Return | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ausgabeteil | Void | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | <h4>Netzwerk 1: Drehzylinder links drehen</h4> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Symbol | Adresse | Typ | Kommentar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| "Tag_18" | %M16.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Stoppenwert" | %M50.1 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | <h4>Netzwerk 2: 2A1 ausfahren</h4> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Symbol</th> <th>Adresse</th> <th>Typ</th> <th>Kommentar</th> </tr> </thead> <tbody> <tr> <td>"2M1"</td> <td>%A5.2</td> <td>Bool</td> <td>2A1 ausfahren</td> </tr> </tbody> </table> | | | | Symbol | Adresse | Typ | Kommentar | "2M1" | %A5.2 | Bool | 2A1 ausfahren | | | | | | | | | | | | | | | | | | | | |
| Symbol | Adresse | Typ | Kommentar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "2M1" | %A5.2 | Bool | 2A1 ausfahren | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | Name | | Programmname | Testprogramm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Datei | | Dateipfad | C:\Users\Schüler\Desktop\Testprogramm\Testprogramm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Diagramm | | Diagrammname | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Erstellt by | | Erstellungsdatum | Language de-DE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Revidiert by | | Revisionsnummer | Seite 4 - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------------------------------|---|-----------|--------|---------|-----|-----------|---------|-------|------|----------------------|---------|-------|------|--|----------|--------|------|--|----------|--------|------|--|----------|--------|------|--|---------------|--------|------|
| A | <table border="1"> <thead> <tr> <th>Symbol</th> <th>Adresse</th> <th>Typ</th> <th>Kommentar</th> </tr> </thead> <tbody> <tr> <td>"Tag_1"</td> <td>%M1.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"Tag_5"</td> <td>%M7.0</td> <td>Bool</td> <td></td> </tr> </tbody> </table> | | | | Symbol | Adresse | Typ | Kommentar | "Tag_1" | %M1.0 | Bool | | "Tag_5" | %M7.0 | Bool | | | | | | | | | | | | | | | | |
| | Symbol | Adresse | Typ | Kommentar | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_1" | %M1.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_5" | %M7.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Netzwerk 3: 2A1 einfahren</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Symbol</th> <th>Adresse</th> <th>Typ</th> <th>Kommentar</th> </tr> </thead> <tbody> <tr> <td>"2M2"</td> <td>%A0.3</td> <td>Bool</td> <td>2A1 einfahren</td> </tr> <tr> <td>"Tag_6"</td> <td>%M5.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"Tag_13"</td> <td>%M11.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"Tag_20"</td> <td>%M20.0</td> <td>Bool</td> <td></td> </tr> </tbody> </table> | | | | Symbol | Adresse | Typ | Kommentar | "2M2" | %A0.3 | Bool | 2A1 einfahren | "Tag_6" | %M5.0 | Bool | | "Tag_13" | %M11.0 | Bool | | "Tag_20" | %M20.0 | Bool | | | | | | | | |
| Symbol | Adresse | Typ | Kommentar | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "2M2" | %A0.3 | Bool | 2A1 einfahren | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_6" | %M5.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_13" | %M11.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_20" | %M20.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Netzwerk 4: 3A1 ausfahren</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Symbol</th> <th>Adresse</th> <th>Typ</th> <th>Kommentar</th> </tr> </thead> <tbody> <tr> <td>"3M1"</td> <td>%A0.4</td> <td>Bool</td> <td>Vertikalzylinder 3A1</td> </tr> <tr> <td>"Tag_2"</td> <td>%M2.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"Tag_9"</td> <td>%M8.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"Tag_4"</td> <td>%M6.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"Tag_12"</td> <td>%M10.0</td> <td>Bool</td> <td></td> </tr> <tr> <td>"Stoppmaeker"</td> <td>%M50.1</td> <td>Bool</td> <td></td> </tr> </tbody> </table> | | | | Symbol | Adresse | Typ | Kommentar | "3M1" | %A0.4 | Bool | Vertikalzylinder 3A1 | "Tag_2" | %M2.0 | Bool | | "Tag_9" | %M8.0 | Bool | | "Tag_4" | %M6.0 | Bool | | "Tag_12" | %M10.0 | Bool | | "Stoppmaeker" | %M50.1 | Bool |
| Symbol | Adresse | Typ | Kommentar | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "3M1" | %A0.4 | Bool | Vertikalzylinder 3A1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_2" | %M2.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_9" | %M8.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_4" | %M6.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Tag_12" | %M10.0 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| "Stoppmaeker" | %M50.1 | Bool | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Netzwerk 5: Sauger ein</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| F | Datei | | Programm: Testprogramm Datum: 30.11.2014 C:\Users\Schüler\Desktop\Testprogramm\Testprogramm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Operator | | Leitplatz | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dateigröße | | Dateigröße | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Charakter | | Charakter: organk de-DE Sprache: de-DE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Speicherort | | Speicherort: %M20 Blatt: 4 - 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Bilder der Anlage



Gesamtansicht



Schaltkasten



Rückwandplatte



Mechanische Baugruppe