***Gluing device***

## Connection diagram of PLC [=SPS-Anschlussplan]

## Task:

Complete the connection diagram of PLC using the worksheets on „Gluing device“.

**Note: In order to detect the retracted and the advanced end position of press cylinder 1A1, we use a reed switch (1B1) and an inductive proximity sensor (1B2).**

Refer to your textbook on mechatronics if necessary.

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+24 VDC

13

14

I 124.7

I 124.6

I 124.5

I 124.3

I 124.2

I 124.1

I 124.0

Q 124.0

Q 124.1

Q 124.2

Q 124.3

Q 124.4

Q 124.5

Q 124.6

Q 124.7

0 VDC

+24 VDC

Siemens S7-300

S1

I 124.4

+24 VDC



Use the **potential-free NO contact** of the relay K0 on the PLC-board in order to control the solenoid valve.



Choose between the following two methods of representation to represent

a proximity sensor in a connection diagram of PLC:

+24 VDC

RD

RD

0 VDC

I 124.7

I 124.6

I 124.5

I 124.4

I 124.3

I 124.2

I 124.1

I 124.0

BK

BK

BU