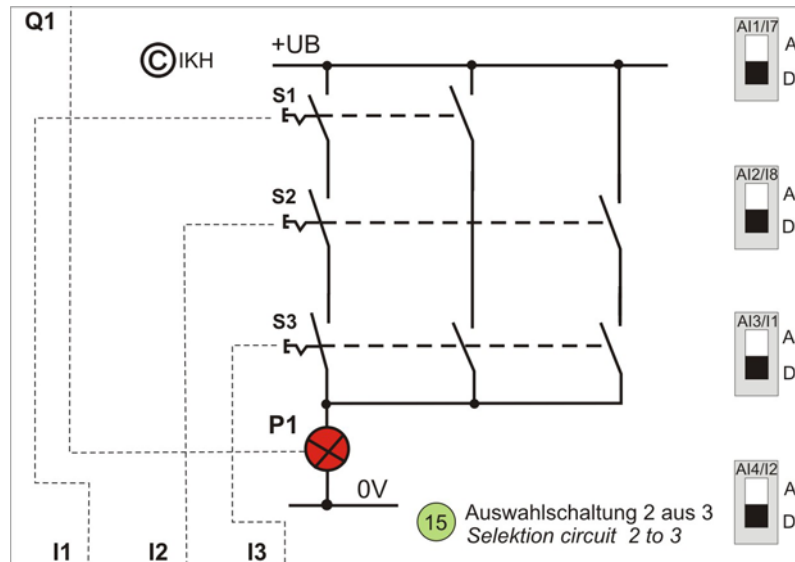


Selection circuit 2 of 3 with LOGO!Learn

Learning card: Selection circuit 2 of 3

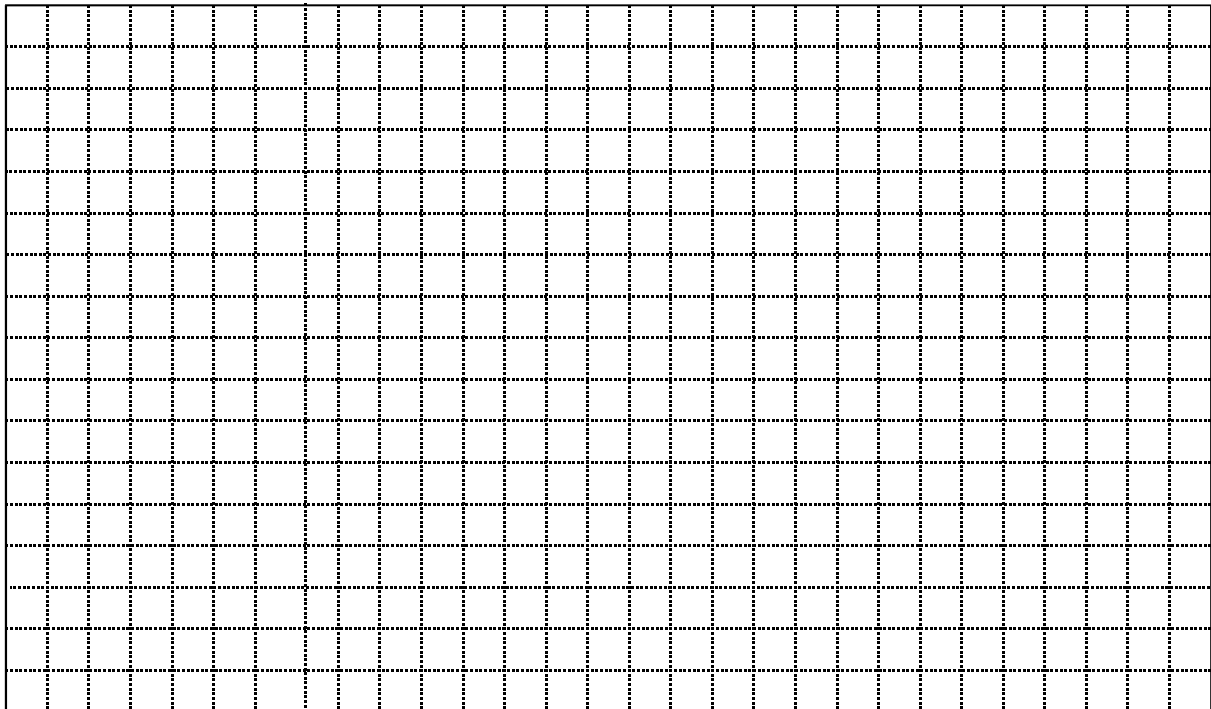


The learning card shows the selection circuit 2 of 3 as a circuit diagram. Critical parameters in dangerous processes are monitored by several sensors. If a critical parameter (i.e. temperature of a chemical process) is only monitored by one measuring instrument, an error could occur due to a fault of a measuring device which could trigger a false alarm. Therefore, critical parameters are monitored threefold. The alarm will only be triggered, if at least two of the three measuring instruments indicate that they have exceeded the limit.

Correlation list		
Symbol	absolute	Comment
S1	I1	Switch
S2	I2	Switch
S3	I3	Switch
P1	Q1	Status LED

Exercise

- Convert circuit diagram into function block diagram (FBD) (solution field 1)
- Convert circuit diagram into ladder diagram (LAD) (solution field 2)
- Enter program according to function block diagram (FBD) into the programming unit (i.e. PC or keyboard) and transfer into LOGO!
- Enter program according to ladder diagram (LAD) into the programming unit (i.e. PC or keyboard) and transfer into LOGO!
- Test program

Solution field 1

Solution field 2

