

Fountain control

Task

“easy” is required to control four different fountain jets.

After switching on the fountain via main switch S1, the jets are switched on one by one at specific time intervals. Once all the jets are switched on, jets 2-4 are switched off in order to be switched on again consecutively. Jet 1 is switched on permanently. A time switch and an analog value processing function ensure that the fountain is only in operation at set times of the day and when the temperature is at least +4 °C.

Wiring

1. Inputs:

- I1 Main switch S1 (ON/ OFF)
- I7 Analog input for temperature measuring

2. Outputs:

- Q1 Fountain jet E1
- Q2 Fountain jet E2
- Q3 Fountain jet E3
- Q4 Fountain jet E4

3. Parameters:

- T1 On-delay jet 2
- T2 On-delay jet 3
- T3 On-delay jet 4
- T4 Off-delay jet 2-4
- A1 I7 $\geq 4.4V$ Outdoor temperature = +4 °C Fountain ON
- A2 I7 $\leq 4.2V$ Outdoor temperature = +2 °C Fountain OFF
- H1A On time Mon-Fri
- H1B On time Sat-Sun