

Outdoor irrigation control with different programs

Task definition

easy is required to control an outdoor irrigation system, i.e. for irrigating fields.

Three different switches allow you to activate three irrigation programs which control up to three pumps.

- The first program runs the system in continuous operation, i.e. continuous irrigation.
- The second program irrigates at programmable day times.
- The third program only activates irrigation after a specific number of days without rain. The time of day can also be set in this program.

A selector switch allows you to select between pulsed irrigation and continuous irrigation. If pulsed irrigation mode is set, the water is discharged intermittently for short periods.

You can switch the entire system on or off via a main switch.

An indicator light flashes when a program is activated. If the light is continuously lit, this indicates an operator error (two or three programs active at the same time).

Easy used

easy500

Wiring

Inputs

- I01 Main switch S1 (ON/OFF)
- I02 Switch S2 (Program 1: Continuous operation)
- I03 Switch S3 (Program 2: Time switch)
- I04 Switch S4 (Program 3: Dry period)
- I05 Selector switch S5 (pulsed/continuous irrigation)
- I06 Rain sensor S6 (flashing: program active
/continuous light: operating error)

Outputs

- Q01 Irrigation pump E1
- Q02 Irrigation pump E2
- Q03 Irrigation pump E3
- Q04 Indicator light H4

Parameters

- T01 Flash pulse for indicator light
- T02 Clock pulse or pulsed irrigation
- T03 Pulse generation from counter signal
- T04 Irrigation time . Dry period
- H01 Irrigation pump program 3 (daily counter signal)
- H02 Irrigation time program 2 (time switch)
- C01 Counter (counts number of rain-free days before irrigation)