

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

easyE4

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)