

Controlling of Water Pump.....

1. Requirements

The rain water and drinking water system is controlled by using of FAB. When the drinking water supply is working, the rain water must not reach. If there is insufficient rain water in the rain water tank, the pump must not be switched on (anti-dry-running protection).

2. FAB Solution

At a certain time the pump must be switched on when the pressure drops below a minimum value. When operating pressure is reached, the pump is switched off again after a run-on time of a few seconds. If float switch I4 for run dry protection on is cut off Q1 is shut up; if float switch I3 for drinking water on is switched on Q2 is open, if float switch I2 for drinking water off is switched off Q2 is closed.

3. Components used

Input	Output
I1 Pressure switch	Q1 Pump
I2 Float switch I1: off drinking water(NO contact)	Q2 Drinking water
I3 Float switch I2: on drinking water(NO contact)	
I4 Float switch I3:anti-dry-protection(NC contact)	

4. Advantages and Specialties

Enhanced function can be easily expanded.

Fewer components are necessary than the traditional solutions.

5. Software Circuit Diagram

