Controlling of Water Pump...........................

1. Requirements

The rain water and drinking water system is controlled by using of SR. 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. SR 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 IA3 for run dry protection on is cut off QA0 is shut up; if float switch IA2 for drinking water on is switched on QA1 is open, if float switch IA1 for drinking water off is switched off QA1 is closed.

3. Components used

Input	Output
IA0 Pressure switch	QA0 Pump
IA1 Float switch IA0: off drinking water(NO contact)	QA1 Drinking water
IA2 Float switch IA1: on drinking water(NO contact)	
IA3 Float switch IA2: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