

Lighting in a Sports Hall

1. Requirements

The lighting in the sports hall and changing room of a school is controlled using SR. As various sports clubs have also rented the sports hall in the evenings, SR has been programmed to switch the lighting off at a set time so that only the clubs use the hall in permitted time, and the lighting can be switched on and off completely.

2. SR Solution

The lighting in the sports hall (QA0 and QA1) can be switched on and off via the button IA0, the lighting in the changing room can be switched on and off via the button IA1.

The lighting is switched off in the evening via the integrated time switch. At PM9:45 a horn sounds for 5 seconds to warn that the time is up.

There is time to leave the sports hall and switch off the light. At PM10:00 the light group 1 in the sports hall (QA0) is switched off and at PM10:15 the light group 2 in the sports hall (QA1). At PM10:25 the light in the changing room is switched off, the light can't be switched on again after that.

Via the center switch, the lighting can be switched on and off completely independently (e.g. by guarder).

Via the locking switch IA3, the lighting is shut off during holiday.

3. Components used

Input	Output
IA0 Sports hall lighting button(NO contact)	QA0 Sports hall light group 1
IA1 Changing room lighting button(NO contact)	QA1 Sports hall light group 2
IA2 Center switch((NO contact)	QA2 Changing room light
IA3 Locking switch for holidays(NO contact)	QA3 Horn

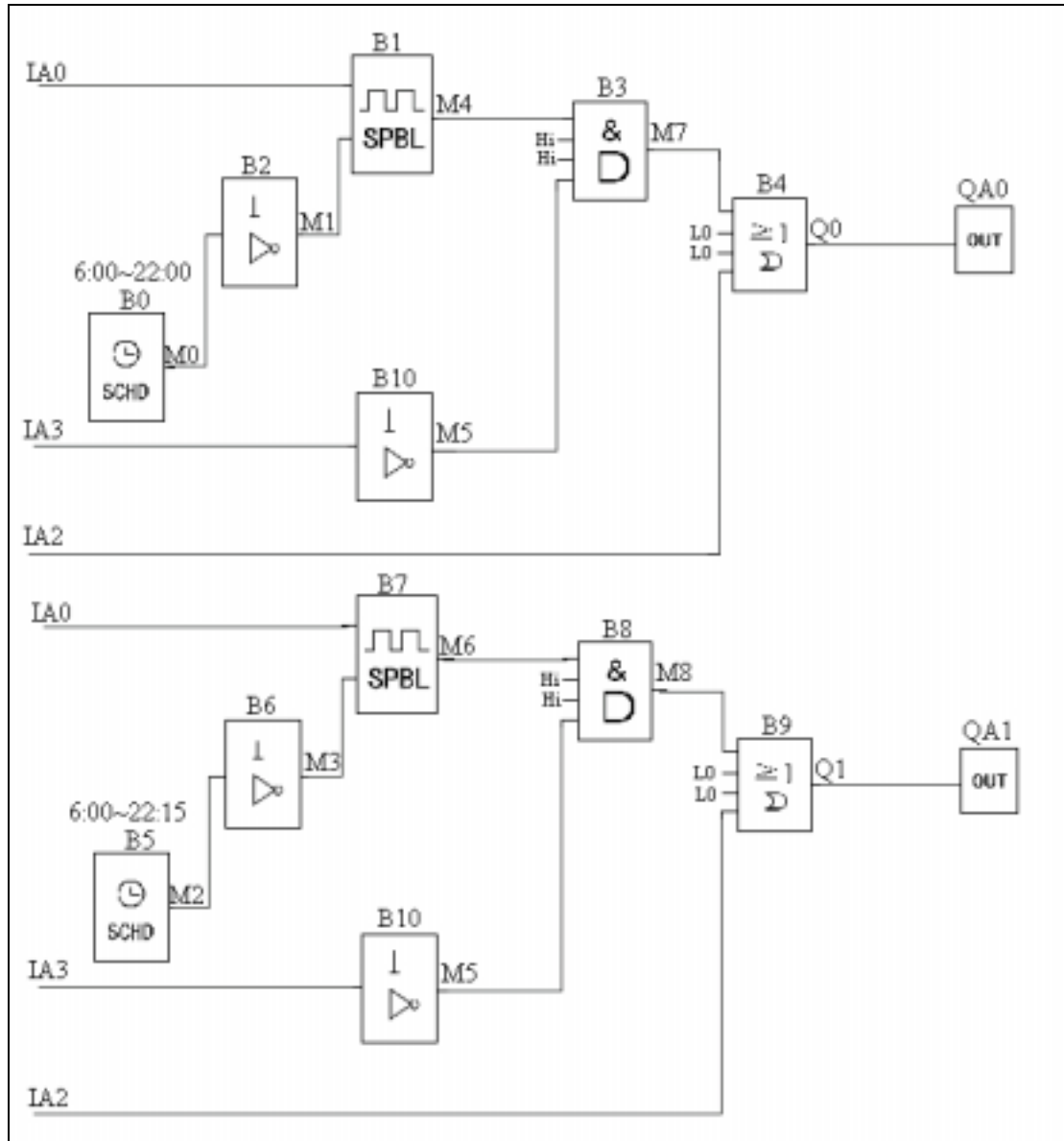
4. Advantages and Specialties

The system can easily be adapted for other times of sports hall.

Fewer components are necessary than the traditional solutions.

5. Software Circuit Diagram

Part I.....



Part II.....

