

# Outdoor Lighting.....

## 1. Requirement

The exterior lighting of a building is to be controlled using FAB. There are two kinds of lighting: main and second lighting with manual or automatic operation. The main lighting is switched on for the whole set time, the second lighting is switched on when only the motion detector is activated. The lighting is generally switched on when it is dark.

## 2. FAB Solution

From AM8:00 to PM12:00, the main lighting(Q1) is automatically switched on, if the photosensitive switch I1 responds.

From 6:00 to 8:00 in the morning and from 5:00 to 12:00 in the evening, the second lighting(Q2) is switched on for 90 seconds, if the motion detector I2.

The main and second lighting are switched on independently in order to test via I4 (manual setting).

## 3. Components used

| Input                                    | Output             |
|------------------------------------------|--------------------|
| I1 the photosensitive switch(NO contact) | Q1 Main lighting   |
| I2 the motion detector(NO contact)       | Q2 Second lighting |
| I3 "automatic" setting(NO contact)       |                    |
| I4 "manual" setting(NO contact)          |                    |

## 4. Advantages and Specialties

Saving energy due to adopting of the time switch, motion detector and photosensitive switch.

The times can be set individually, e.g. different time on workdays and weekdays or other time periods.

The lighting system can easily be expanded.

## 5. Software Circuit Diagram

