**ILW**. Control the status of two LEDs using two switches as the table shows bellow: [5]

Mandatory:

|  |  |  |  |
| --- | --- | --- | --- |
| SW1 | SW2 | LED 1 | LED 2 |
| 0 | 0 | Off | Off |
| 0 | 1 | Off | ON |
| 1 | 0 | ON | Off |
| 1 | 1 | ON | ON |

Optional:

|  |  |  |
| --- | --- | --- |
| SW1 | SW2 | LED |
| 0 | 0 | Off |
| 0 | 1 | On for 1s |
| 1 | 0 | On for 2s |
| 1 | 1 | On for 3s |