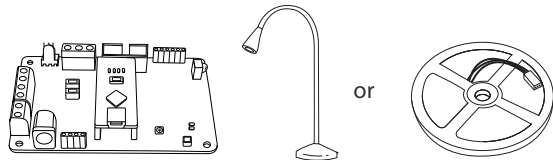# Automatic Control System for Interior Lighting

- full control over lighting
- remote or button control
- manual or auto mode
- saving preferences
- low consumption

SmartLight - IUT GEII Toulon
SEIMANDI Guillaume C
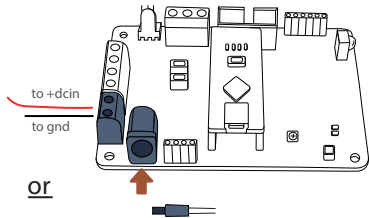2023

Required products :

or

Compatibilities :
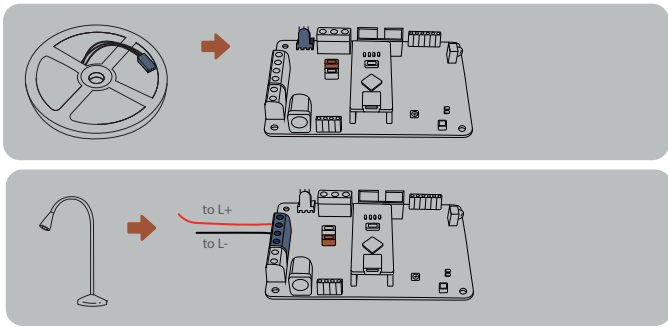- Ikea Nävlinge® lamps
- WS2812B led strips

Power supply: 9V ~ 12V DC
- via simple wires
- or via barrel jack DC wire

1. Power Up

to +dcin
to gnd

or

When powering up,
please hold the button corresponding to
your configuration (in brown on the right)

to L+
to L-

2. Modes

The current mode is given by the state of the green LED on the board.
(by default the system is in manual mode)

Manual Mode

Switching between modes

Switching off all lights

In remote control, it is necessary to select which parameter
you want to modify. (Note that the selection of RGB components
is only available in ⊛ mode).

Automatic Mode

In automatic mode, the light intensity settings of the manual mode
are applied from a certain threshold that varies
between 10 lux and 2000 lux.

or

Example : ① + ② + ③ + ⋀ ➡ The triggering threshold is set at 123 lux

3. Errors and Reset

Errors are signalled by the red LED: they show that a command entered
by the user is incompatible or incorrect in relation to the situation.
It manifests itself in the following way:

The reset allows you to return to the factory settings: it is performed
by holding down the two buttons on the board when powering up
as shown below:

x 4

x 6