

Arduino ASL Shield

Automatic stairs lighting Arduino shield.

DESCRIPTION:

Arduino ASL shield is designed to build and integrate a stairs lighting system to your home controller.

Ready to use code examples for Arduino . (ForASLOnlyLightSensor.ino – If to use only Light resistor and ForASLMysensorInkluded.ino if going to connect to home controller through Mysensors .)

You can edit this to add more lights, or to use a different lighting sequence.

A sketch use Mysensors libraries (optional) and ShiftPWM libraries.

Can be connected wirelessly with more than 20 of the leading home automation controllers .

NOTE:

ASL shield needs Mysensors Gateway to communicate with your home controller.

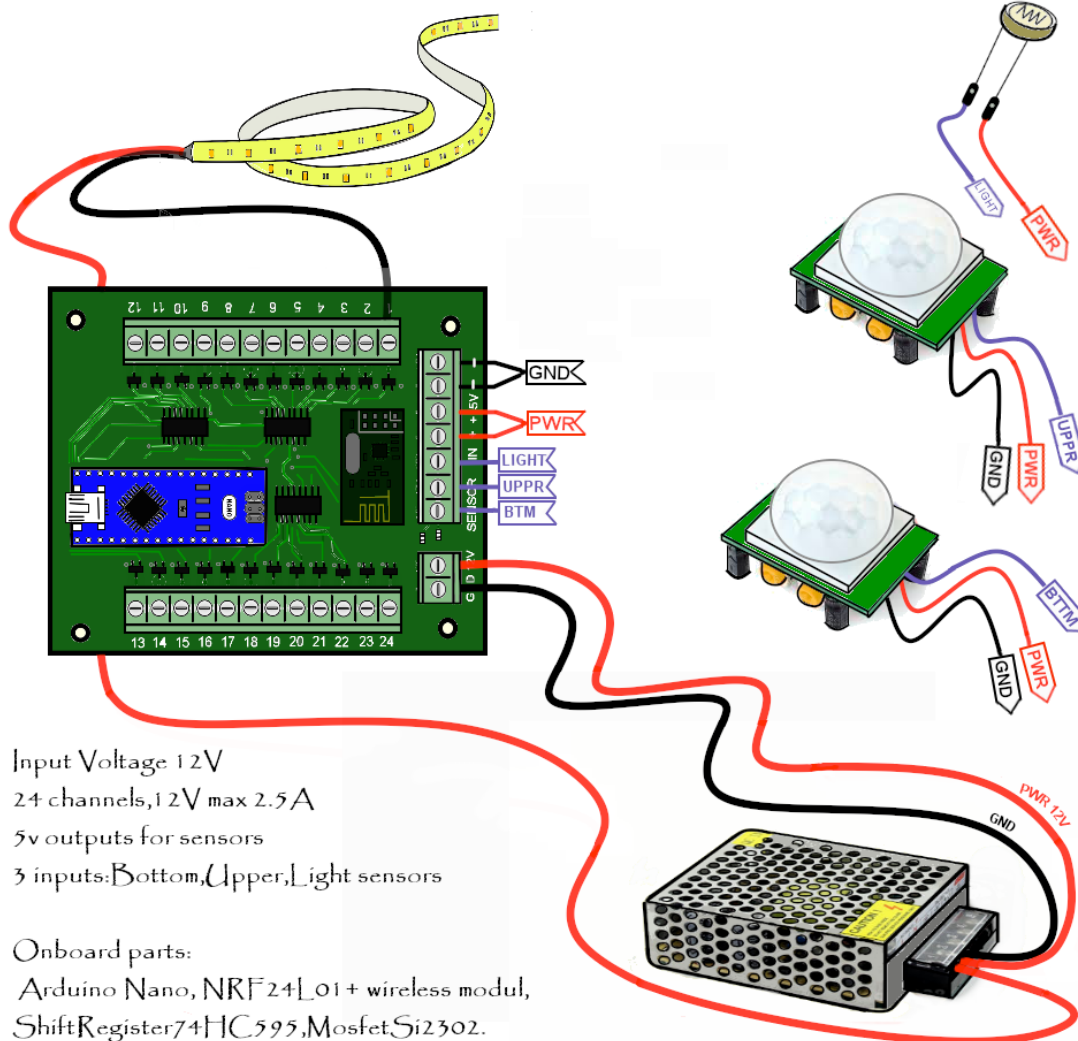
For more info, please visit www.mysensors.org

HOW TO BUILD:

1. Follow a schematic sketch bellow to wire it up.
2. Download and install Mysensor-master(optional) and ShiftPWM -master libraries to Arduino IDE:
3. Download a sketch .
(Two options: choose sketch 'ForASLMysensorInkluded' or 'ForASLOnlyLightSensor' for controlling day/night mode.
4. Edit code : Set number of stairs, pause between on/off, check your sensors type, adjust photocell sensitivity (if using)
5. Upload the code to Arduino Nano.
6. Insert Arduino to ASL Shield.
7. Insert NRF24L01+ modul . (optional)
8. Set Mysensors plugin to including mode. (optional)
8. Power up ASL Shield.
9. Use 10k resistor between light sensor input and GND, for light sensor stable readings.
(optional - means you can skip this step ,if 'ForASLOnlyLightSensor.ino' sketch is uploaded)

1.

Arduino ASL Shield schematic scatch.



2.