

DIY Light Barrier Alarm System With an Industrial Grade PLC (Controllino)



In this project I will be showing you how I combined a PLC (the Controllino) with a light barrier, a siren, a reed switch and a stroboscope light in order to create a truly robust working alarm/security system that will scare off intruders easily. Let's get started!



Step 1: Watch the Video!

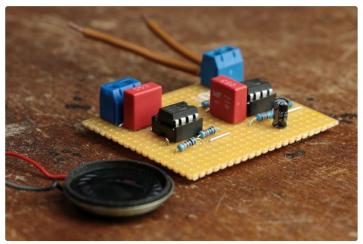
The video gives you all the information you need to create your own light barrier alarm system. During the next steps though I will present you some additional information.

https://youtu.be/0fDPBtbsUgc

Step 2: Order Your Components!

You can get most of the components from the home - M20 installation conduit improvement store: - pipe clamps - distribution box - WAGO terminals href="http://rover.ebay.com/rover/1/711-53200-19255-0/1? icep_ff3=2&pub=5575101368&toolid=10001&campid - Wall plugs + screws =5337582279&customid=&icep_item=264392978851& - NYM Wire, all the other wires,.... ipn=psmain&icep_vectorid=229466&kwid=902099&m tid=824&kw=lg">http://rover.ebay.com/rover/1/711-You can also find out how to build the stroboscope 53200-19255-0/1?... light (with parts list) here: https://www.instructables.com/id/Make-Your-Own-1x IR Light Barrier: -LED... 1x 200W Boost Converter: http://rover.ebay.com/rover/1/711-53200-19255-0/1?... You can find the remaining components here (affiliate links): 1x 100W Siren: http://rover.ebay.com/rover/1/711- 53200-19255-0/1?... **Aliexpress:** 2x 555 Timer: http://rover.ebay.com/rover/1/711- 1x Reed switch: 53200-19255-0/1?... https://s.click.aliexpress.com/e/_d6ofS6x 1x Resistor Kit: http://rover.ebay.com/rover/1/711-1x IR Light Barrier: 53200-19255-0/1?... https://s.click.aliexpress.com/e/_d9m7QYX 1x Capacitor Kit: http://rover.ebay.com/rover/1/711- 1x 200W Boost Converter: 53200-19255-0/1?... https://s.click.aliexpress.com/e/_d6VIC7V **Amazon.de:** 1x 100W Siren: https://s.click.aliexpress.com/e/_d8HmlCn 1x Reed switch: https://amzn.to/2jLocdg 2x 555 Timer: https://s.click.aliexpress.com/e/_dZrO57t 1x IR Light Barrier: https://amzn.to/2ldMHQW 1x Resistor Kit: 1x 200W Boost Converter: https://amzn.to/2iJEpis https://s.click.aliexpress.com/e/_d74q6Pl 1x 100W Siren: https://amzn.to/2jIXBhj 1x Capacitor Kit: https://s.click.aliexpress.com/e/_dSL5lAr 2x 555 Timer: https://amzn.to/2lfCZxt Ebay: 1x Resistor Kit: https://amzn.to/21703g6 1x Reed switch: 1x Capacitor Kit: https://amzn.to/2lcqcMk

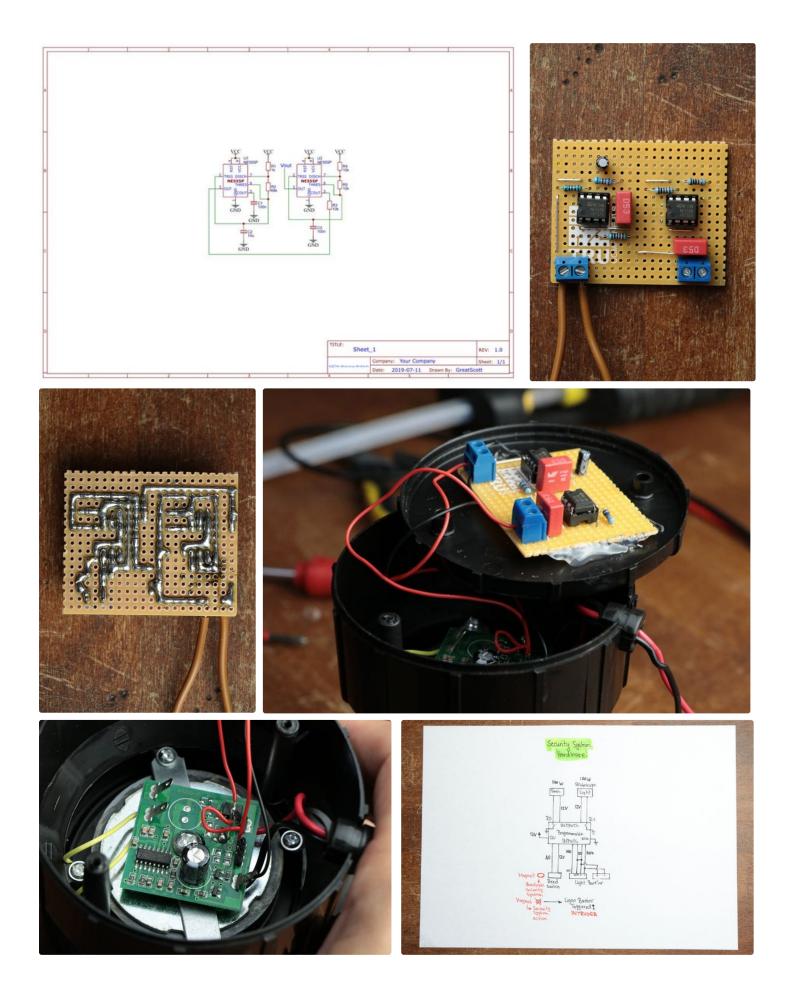


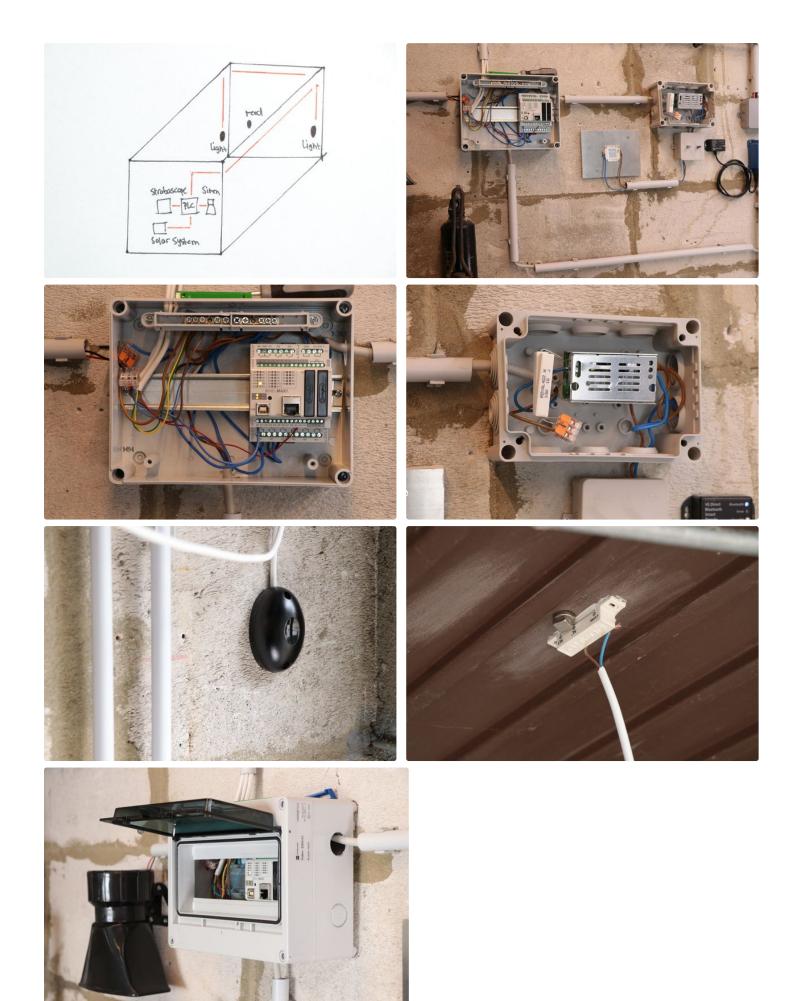




Step 3: Create the Wiring & Circuits!

Here you can find all schematics and wiring diagrams for the project. Feel free to use them as a reference.

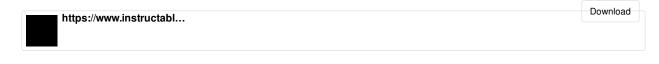




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Step 4: Upload the Code!

Here you can find the code that I created for my PLC. Feel free to use it as a reference for your own code.



Step 5: Success!

You did it! You just created your own light barrier alarm system!

Feel free to check out my YouTube channel for more awesome projects:

http://www.youtube.com/user/greatscottlab

You can also follow me on Facebook, Twitter and Google+ for news about upcoming projects and behind the scenes information:

https://twitter.com/GreatScottLab https://www.facebook.com/greatscottlab





The barrier input is not used on your code, is this a mistake or most certainly smth I didnt understand?



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