



EVE Shutter Switch (1.0) Housing



Hendl

[VIEW IN BROWSER](#)

updated 26. 11. 2023 | published 26. 11. 2023

Summary

A solution to use the EVE Shutter Switch with an external housing



2.64 hrs



1 pcs



0.20 mm



0.40 mm



PET



31 g



Prusa MINI /
MINI+

[Household](#) > [Other House Equipment](#)

Tags: [switch](#) [wallmount](#) [housing](#) [eve](#) [shutter](#) [smarthome](#)

Eve Shutter Switch External Housing for Wallmount

We had a very old electric control for our window shutters, which was not mounted inside the wall but had a small housing. I wanted to integrate the shutters to our smarthome (we use the Apple Homekit) and a very reliable solution is the EVE Shutter Switch (V1.0). However, this EVE Shutter Switch is only made to install, when you have your electric inside the wall.

For some reasons we cannot integrate the electric inside the wall so I had to design a housing which fits perfect as a wall mount housing to the EVE solution. Also, I integrated space for two Wago 221 cable connectors for easier installation.

For the connection between bottom piece and top piece I integrated M3 nuts, which can be fit easily during the print... just add a print stop in prusaslicer or use the .3ml file from the download section, where I have saved the printstop.

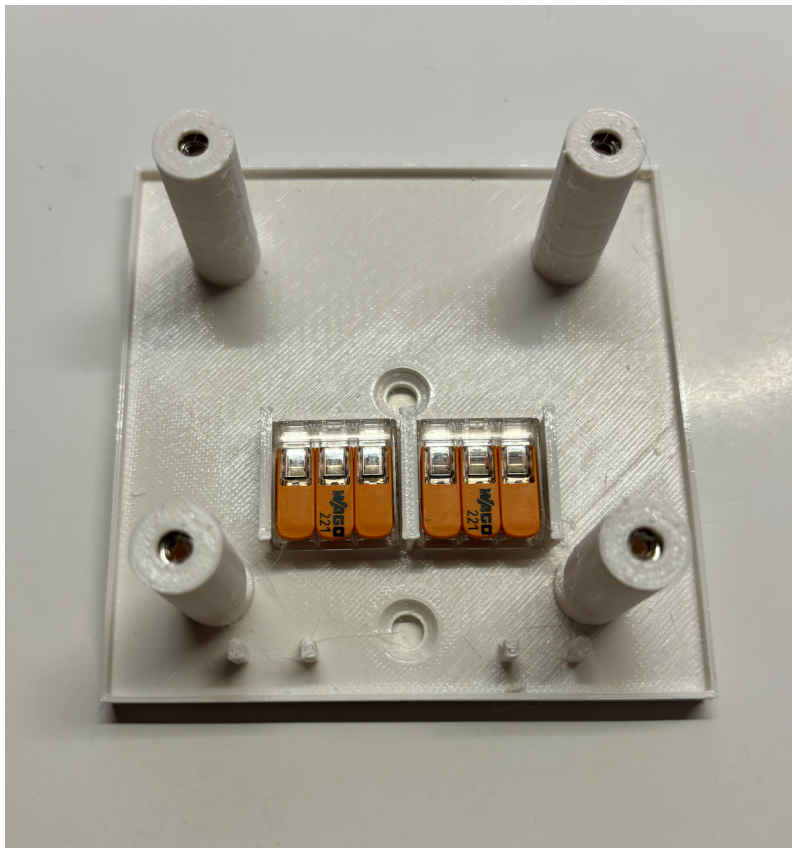
So, besides PETG filament (PLA will sure also work) with a 15% infill you will need to:

- adjust the two holes in the bottom part, where you install the bottom part to the wall. If you don't have holes in your wall already, you can quite as well use the existing file
- 4x M3 nuts and 2-4x M3 screws (2 screws work to tighten, to be on the safe side you can always use 1-2 more to tighten the EVE shutter to the housing.
- 2x [Wago 221](#) connectors (if you don't have them, you can have any kind of cable connectors you need for your home.
- [EVE Shutter Switch Version 1.0](#)

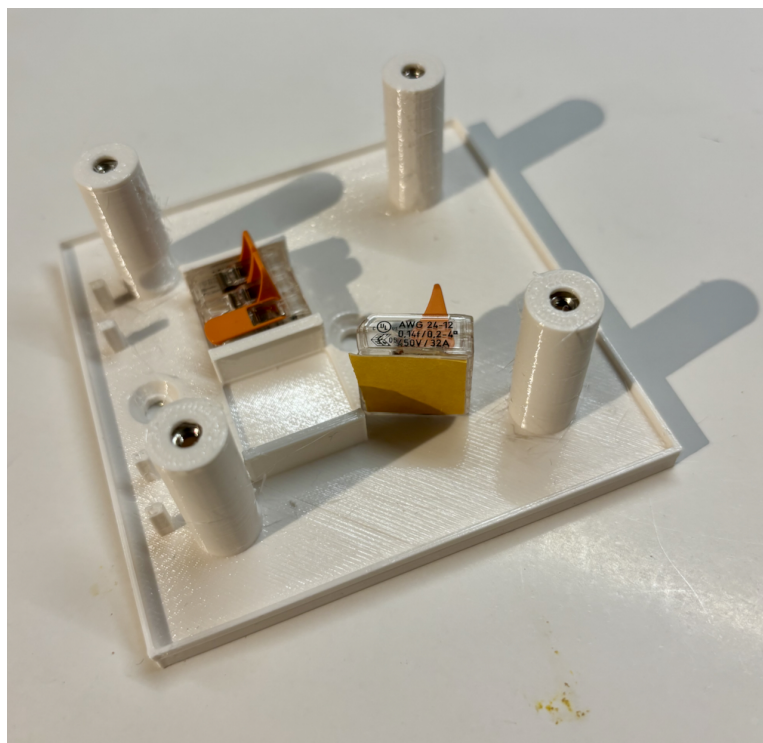
As every home and electric may be slightly different feel free to adjust my model to your needs. If you are going to install it, please make sure to follow the instructions which come with the EVE instructions and as always with electricity: MAKE SURE your put your FUSE OFF.

Some more detailed information:

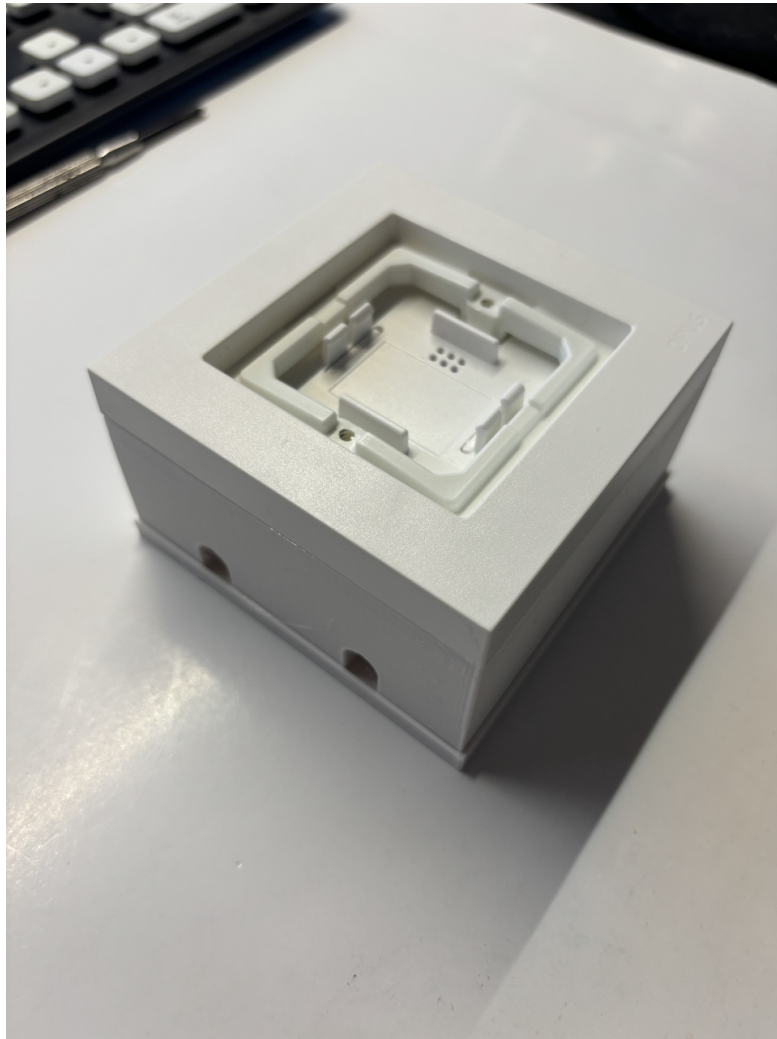
This is the bottom part. The columns have in this picture already four M3 bolts integrated, which can be integrated using a print stop while printing. You can also see that the Wago 221 nicely fit inside. You may adjust the two holes in the center to your like. These are two screw the bottom part to the wall.



For installation I recommend using double-sided tape to fix the Wago to the bottom. Here open first the clamps on the Wago, it makes it a lot more easier later for the cable installation:



The housing top part has two holes on one side which reflect the clamps on the bottom part.



You need to consider this during the assembly and also the direction of the switch itself (it indicates "TOP". The Eve shutter switch can then be screwed on top of it like shown here:



Next is to integrate the EVE controller and the EVE top part, which you find in the package of the EVE Shutter Switch. Assembled it will look like this:



So much for theory... mounting it to the wall you first join the Shutter with the cables one-by-one. Don't worry for the top part, you can put the shutter later through it, so it is not in your way during the cabeling section. Please note that your cables might be different from mine. So if you have no expertise in electric work I suggest you search for an expert consultancy!



If you have all the cables in place I would recommend to do a test run first to see if the shutter runs in the right direction. There are arrows on the EVE Shutter switch indicating down and upwards... if it happens, that they are doing the other way round you just need to switch these cables. DON'T forget to put your PHASE OFF before you work on the cables!!!

If your test run was successfull you can put the top part over the EVE Shutter switch and do the remaining assembly. The screws should all fit together quite well. As always with electric cables make sure they are not pinched somehow, when you do the assemble.

The finished assembly should look like this:



Again: please make sure, you have electric expertise or someone skilled enough to do the electricity (I won't take any responsibility for your doings, but please be cautious with electricity!)

I hope you will enjoy this model as much as I do.

Model files



eve-shutterswitchhousing-top.3mf



eve-shutterswitchhousing-top.stl



eve-shutterswitchhousing-bottom.3mf



eve-shutterswitchhousing-bottom.stl

Print files



eve-shutterswitchhousing-bottom_02mm_petg_mini_2h38m .gcode

PET 0.40 mm 0.20 mm 2.64 hrs 31 g Prusa MINI / MINI+

☐ Inclusive Printstop to insert the screws

License ©

This work is licensed under a
[Creative Commons \(4.0 International License\)](#)



Attribution—Noncommercial—Share Alike

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✗ | Commercial Use
- ✗ | Free Cultural Works
- ✗ | Meets Open Definition