

Smoke Detector Cover for PRUSA Enclosure

 **Ryan H.**

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Summary

I was in the middle of the Prusa V2 enclosure build and realized that a giant smoke detector on the back of it (see...



1.36 hrs



1 pcs



0.20 mm



0.40 mm



PET



8 g



Prusa
MK3/S/S+

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I was in the middle of the Prusa V2 enclosure build and realized that a giant smoke detector on the back of it (see pic) was going to make me feel like human garbage. So I explored around for a better solution. In the U.S., we have these small First Alert smoke detectors (First Alert model P1010, and sold in other countries under brand ELRO) that have a lithium battery that lasts for 10 years. Okay, you can't paint these PRUSA orange to match the cabinet because it may affect the detector's sensors, so I came up with a little cover that snaps in place and still allows you to use the test button every month. This was a nice, compact solution that fits aesthetically with the rest of the cabinet. To print correctly, set print orientation so that the small hole of the detector cover is facing down (on the bed), and set the

top and bottom layers to 0 layers. Use the honeycomb infill at 20% to get that nice (matching!) hexagon print on the bottom. When installing, mount the detector with the test button/light facing forward, then simply snap the cover into place! NOTE: I have tested this and it detects smoke fine with the cover on but use at your own risk and please test to make sure your smoke detector is working properly. I do not assume any responsibility if your particular smoke detector is not working or fails for any reason.

Print instructions Category: 3D Printer Accessories Print Settings

Printer Brand: MK3

Printer: Prusa i3

Rafts: No

Supports: No

Resolution: 0.20 mm

Infill: 20%

Filament: PRUSA PET-G PRUSA Orange

Notes:

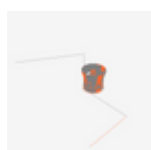
This will work with any materials, I chose PET-G because it matched.

Model files



smokedetectorcoverforprusaenclosure.stl

Print files



smokedetectorcoverforprusaenclosure.gcode

⚙ PET ⚙ 0.40 mm ⚙ 0.20 mm ⌚ 1.36 hrs ⚖ 8 g 🖨 Prusa MK3/S/S+

[Find source .stl files on Thingiverse.com](#)

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