



## Mini Inline Filament Sensor w/ Threaded Fittings



Thumquas

[VIEW IN BROWSER](#)

updated 28. 1. 2024 | published 28. 1. 2024

### Summary

Small and easy to use Filament Sensor.

[3D Printers](#) > [Accessories](#)

Tags: [mini](#) [small](#) [filament](#) [sensor](#) [tube](#) [microswitch](#)  
[filamentsensor](#) [pc4m10](#) [fittings](#) [inline](#)

Inline Filament Sensor.

Print vertically with Tree supports.

Print at .15 or smaller for cleaner threads, but depends on how well tuned your printer is.

PLA can work or if in enclosure maybe Petg - ASA/ABS depending on what you print.

Infill at least 20% but depends on what infill style you use

Clean all holes and check that your filament passes threw easily before installing, sometimes using a drill to clean up the passage is necessary.

For easier filament insertion, bevel the exit tube inner end by spinning a knife tip (or something similar) in the end to remove some material.  
(Picture included for Reference)

Make sure you press the tubes all the way in so there is no space in-between the fitting and printed part.

I bent the Micro Switch tab end slightly so retracting filament was easier

Inserting switch is a bit cumbersome but keep wiggling in all directions till it slides in properly and check that the filament triggers it when inserted and adjust/bend switch tab if needed before installing on printer.

Required Parts:

- 1X Micro Switch
- 2X PC4-M10 Fitting Connector
- 2x M2X10mm Bolts

Remember to Like and Download Please!

Thank you for your support.

## Model files



**mini-inline-filament-sensor.stl**

## License ©



This work is licensed under a  
**Creative Commons (4.0 International License)**

**Attribution-NonCommercial**

- 
- ✗ | Sharing without ATTRIBUTION
  - ✓ | Remix Culture allowed
  - ✗ | Commercial Use

- ✖ | Free Cultural Works
- ✖ | Meets Open Definition