

How to fix filament detection problems

FELIX Pro 1

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Revision 2



1 Introduction

If your print gets interrupted and you get the message "Click to reheat" on the display, that means the printer has detected that the filament is not being fed through at the expected rate.

2 Causes

The behavior can be caused by a filament jam.

A jam can occur when the filament gets tangled on the spool. Sometimes a bulge or kink in the filament causes a jam.

In that case, make sure the cause of the jam is removed. Click the blue control knob once to start heating the extruder again. Feed in the filament again properly (if necessary) by turning the knob. The printer will resume the job at hand after you click a last time.

It may also simply be that the printer has run out of filament.

Click to heat the extruder again. Put a new spool of filament on the printer. Cut off the filament so that the end is flat. Feed the filament through the dust filter and the Teflon tube. Insert the filament into the print head. If the extruder is at its target temperature, you can turn the knob to feed through the new filament. It will then push the old filament through the extruder. When you are sure the new filament has properly entered the extruder, click again to resume printing.

It is also possible that the material you try to print is very soft (like Flex material).

It can get squeezed so much by the clamping mechanism that the detector misjudges the amount of filament coming through. It may help to decrease the clamping range (see the "How To adjust filament clamping range" document).

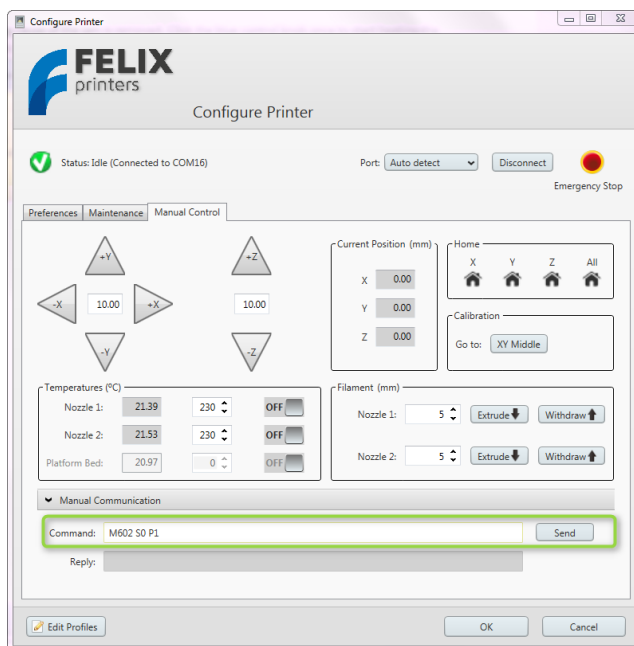
A last possibility is that the filament is slipping. This can be caused by

- a clogged hot end that is preventing the filament being fed through. See this article to find a solution: <http://www.felixprinters.com/knowledgebase/article/clogged-hot-end-felix-pro-1.html>
- The nozzle is too close to the bed or printed object. This can happen if the bed is not leveled right or the object is warping up.
- A clamping range that is too small. See "Howto adjust filament clamping range".

3 Turning off filament detection

If for some reason the filament detection seems to fail (or in your situation it is not required or wanted), you can disable it manually via the printer configuration panel in FELIXBuilder.

You can send a g-code command directly to the printer in the send command textbox:



This is the required command to disable the filament detection: **M602 S0 P1**

Note: The filament detection function is restored, when you reset or restart the printer.

If you are unable to continue or have any questions, you can check at the support section of our website or you can contact us directly:

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Kind regards,

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