



R1, R5 = Panasonic ERJ-UP6F1001V  
 R2 = Panasonic ERJ-UP6F4700V  
 R3, R4 = Panasonic ERJ-P06F2200V  
 C1 = Yageo CC0805KRX7R7BB104  
 D1 = ON Semiconductor / Fairchild S1G  
 D2 = ROHM Semiconductor SML-D12V8WT86C  
 D3, D4 = Würth Elektronik 150060BS75020  
 D5 = Vishay Semiconductors 1N4148WS-HG3-08  
 K1 = Panasonic Industrial Devices DS1E-S-DC3V  
 Q1, Q2, Q3, Q4 = ON Semiconductor BC848CWT1G  
 X1, X4 = Molex 22-23-2031  
 X2, X3 = Molex 22-23-2021  
 IC1 = Nexperia 74HCT1G04GV-Q100H

NC Connector

22-23-2021  
 X2-1  
 X2-2

NO Connector

22-23-2021  
 X3-1  
 X3-2

+5V  
 +3V3  
 22-23-2031  
 X4-1  
 X4-2  
 X4-3  
 Power Connector  
 GND

Mini PCB designed to use the DyzeDesign  
 Filament Sentinel with the Duet3D Magnetic  
 Filament Monitor (connect as MicroSwitch).

Filament Sentinel:

<https://dyzedesign.com/shop/filament-detector/sentinel/>

Duet3D Magnetic Filament Monitor:

<https://www.duet3d.com/MagneticFilamentMonitor>

Design by Tobias X. Vogel

filament-sentinel-microswitch

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Rev F