Electronics/Power Layout

Thursday, April 11, 2019 10:47 AM

Manifold Switch

Requirements: 24V DC 1A Max USB

Peristaltic Pump

Requirements: 24V DC 1.25A Max + Over-current prot. USB

2-Switch + Drivers

Requirements: 5V + 20mA per driver 24V DC + 48mA per driver

XY Stage + Limit Switches + Arduino

12V + 0.33A/Motor + 30mA idle Switches on 5V + 20mA each

ElectronicsPower Layout - Spreadsheet

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Power Handling Board 24Vin

1.25A 24V Over-current prot. 24V - direct 5V - Traco 1A max 12V - Traco box 1A max

USB Hub

Requirements: 5V + Current dependent on whether anything is powered from it. In our case the usb hub does not power anything and is Powered from the PC

Cumulative Requirements 24V DC applied to main input



