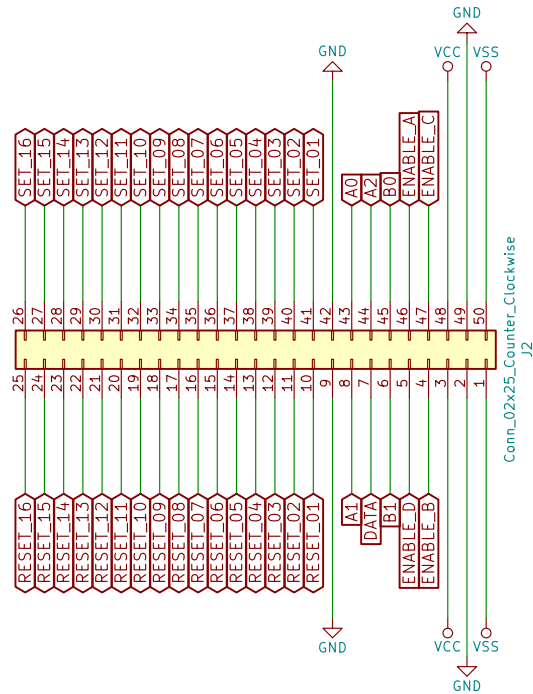
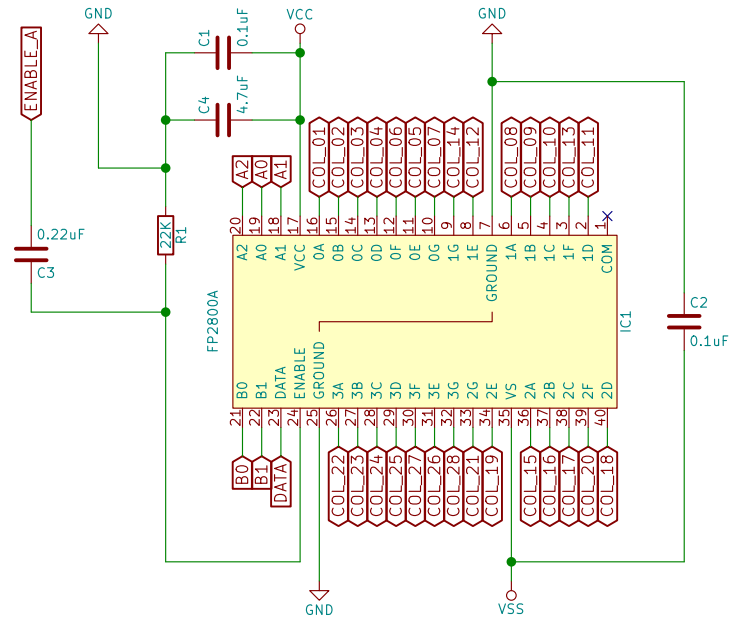


Connector (cascading)

Component mounted on the back side and shown here as accessible from the front. Positioned on the left edge. Outgoing data signal with slightly changed enable pins to allow cascading/daisy-chaining.

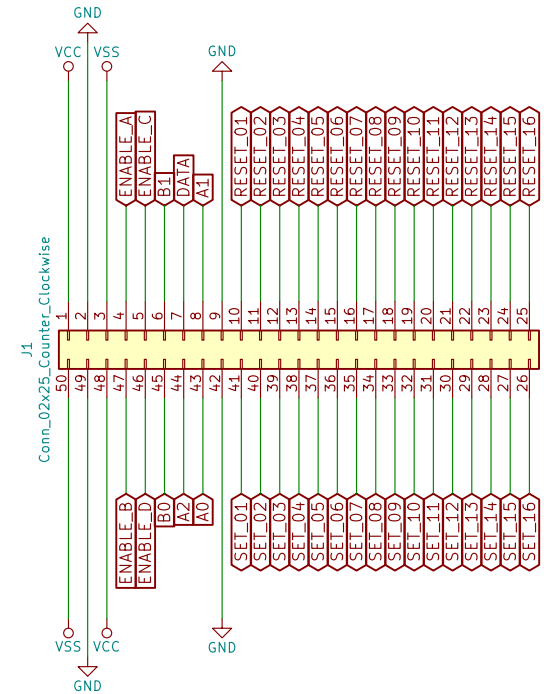


Column Controller

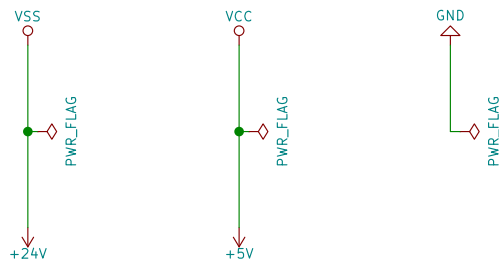


Connector (incoming)

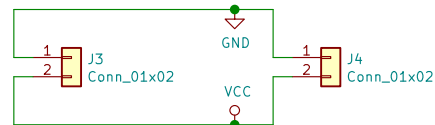
Component mounted on the back side and shown here as accessible from the front. Positioned on the right edge. Incoming data signal from controller or previous matrix.



Power Levels



LEDs



ToDo:

- review naming of the enable pins (maybe align with ones of Lawo 28x13)
- add more rating details about the mounted LEDs and their resistor networks
- add schematic for the LED wiring
- measure LED voltage level and fix schematic

Please note:

Do not cascade/chain more than 4 matrix modules to avoid overloading the driver ICs. The mapping of the activation pins in the fifth matrix returns to the same assignment as for the first one, which would cause that two or more dots will be triggered simultaneously. This could draw or sink more power than the driver IC is able to handle.

Robert Römer

Flip-The-Dot

Sheet: /

File: Lawo 28x16 with LED Matrix Components.sch

Title: Lawo 28x13 with LED Matrix Components

Size: A4 Date: 2019-06-23

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