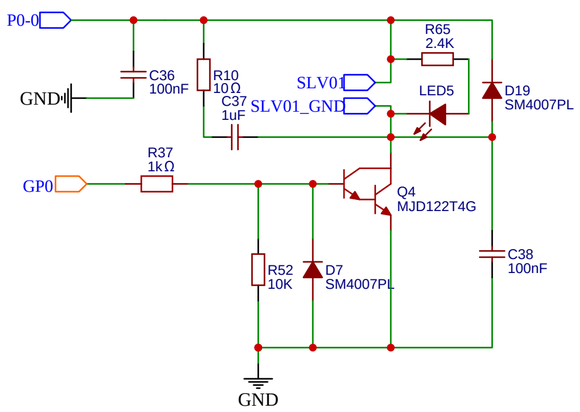
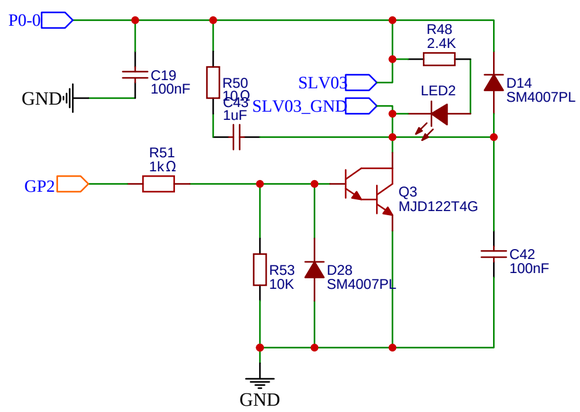
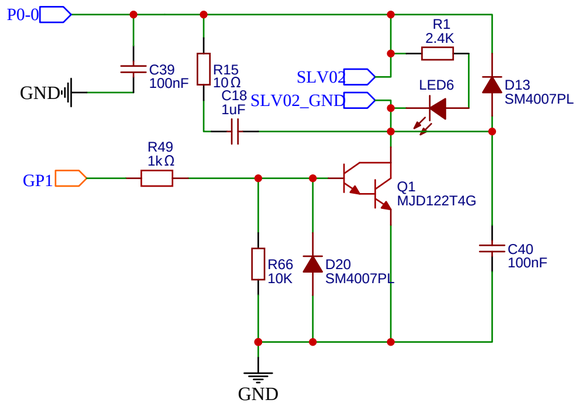
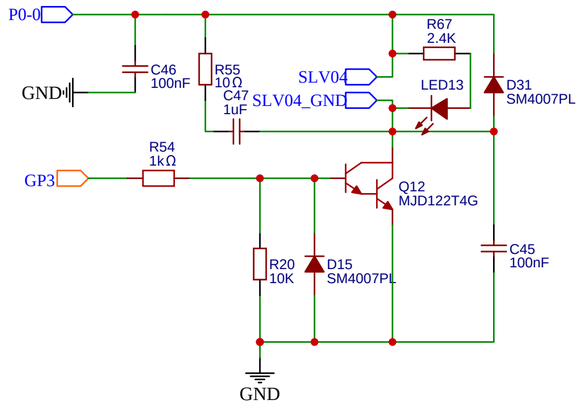
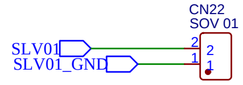


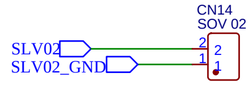




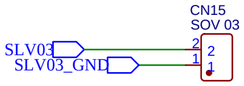




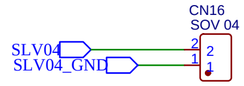
24VDC / 2 Amps / Induductive coil load



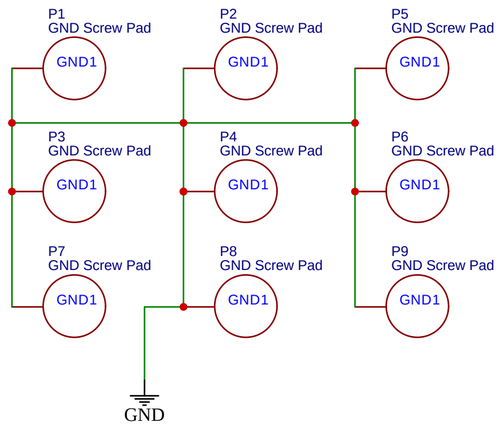
24VDC / 2 Amps / Induductive coil load



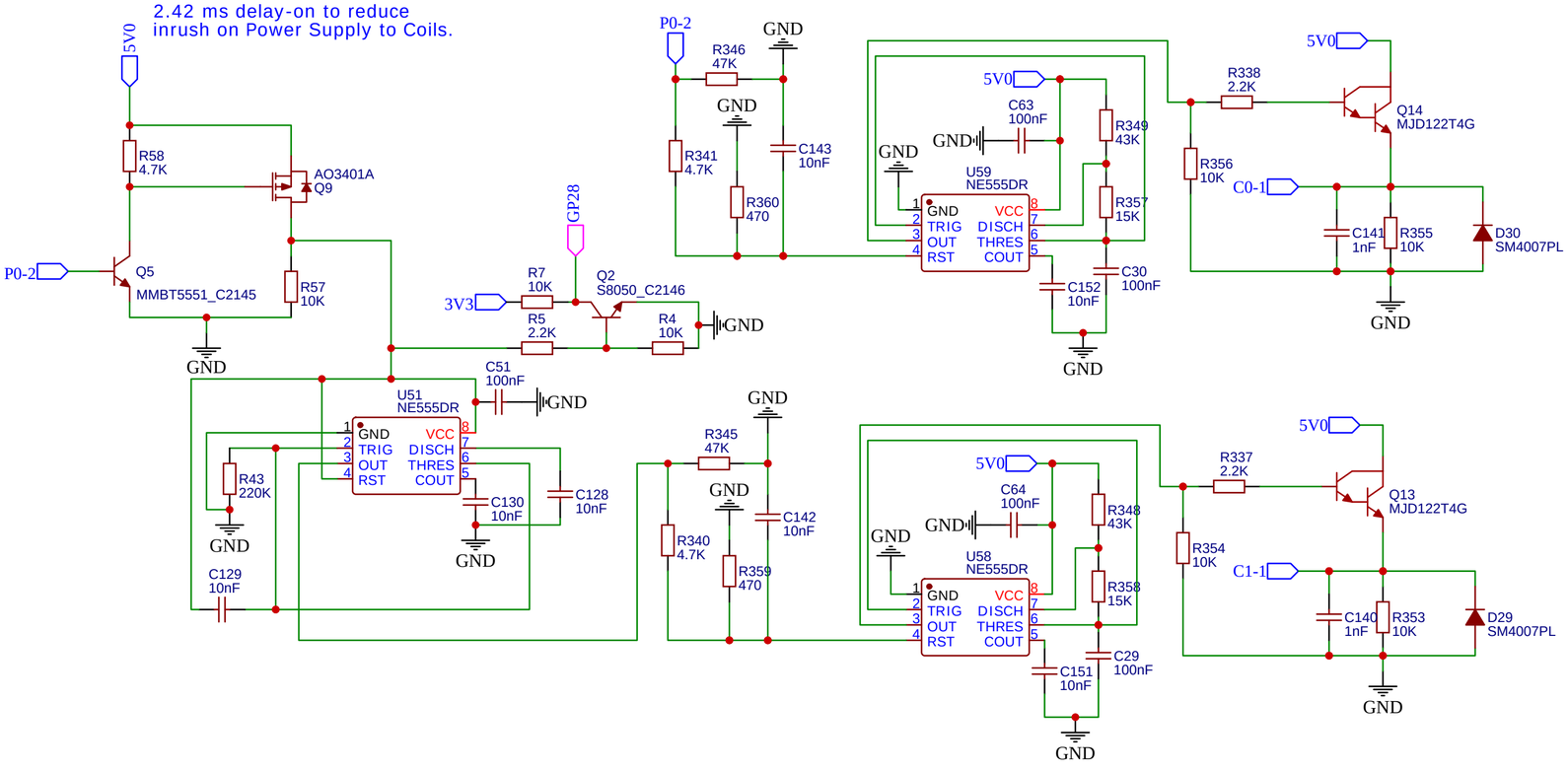
24VDC / 2 Amps / Induductive coil load



24VDC / 2 Amps / Induductive coil load



2.42 ms delay-on to reduce inrush on Power Supply to Coils.



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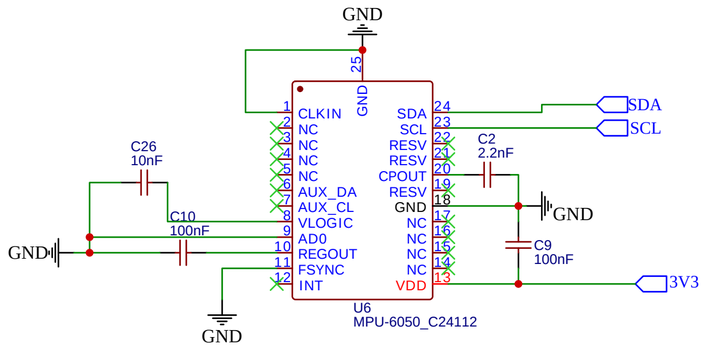
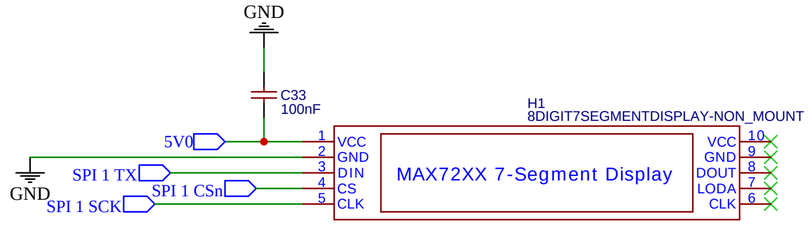
TITLE: IGNITION CIRCUIT 555		REV: 18.15
	Company: VOLODYNE	Sheet: 3/6
	Date: 2021-10-15 Drawn By: David Marshall	

REVIEW ALL ADDRESS FOR I2C BUS

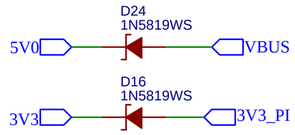
GYROSCOPE, added to I2C interface

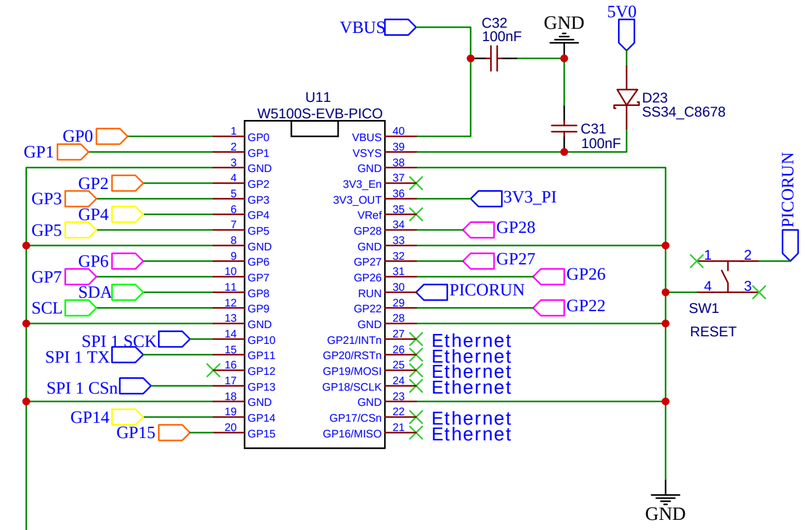
addr 0x68

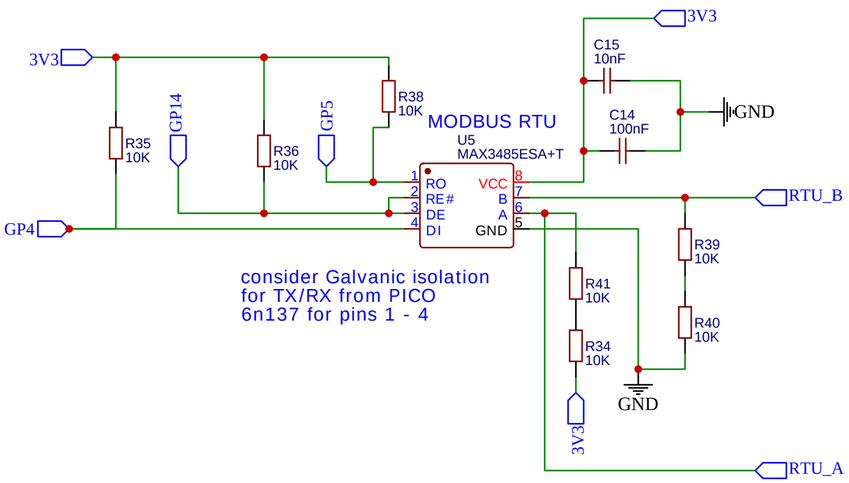




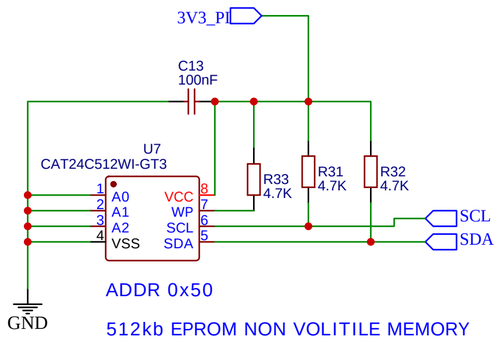
8-digit seven segment display with max7219







consider Galvanic isolation
for TX/RX from PICO
6n137 for pins 1 - 4



ADDR 0x50

512kb EPROM NON VOLITILE MEMORY

MICROCONTROLLER WITH ETHERNET FOR WRITING ANALOG VALUES FROM SENSORS TO REGISTERS.

POWER SUPPLY USE BUCK CONVERTER TO POWER 3.3V FROM 24V VSS.
CONSIDER POWERING PICO 5V SUPPLY WITH BUCK CONVERTER
IF PICO HAS EXPOSED CASTLEATED PINS.

MODBUS PROTOCOL TCP.

REFER TO GITHUB FOR MATURE MODBUS TCP LIBARY FOR PICO PI (CPP)

Ensure no conflicts GP, SPI, I2C

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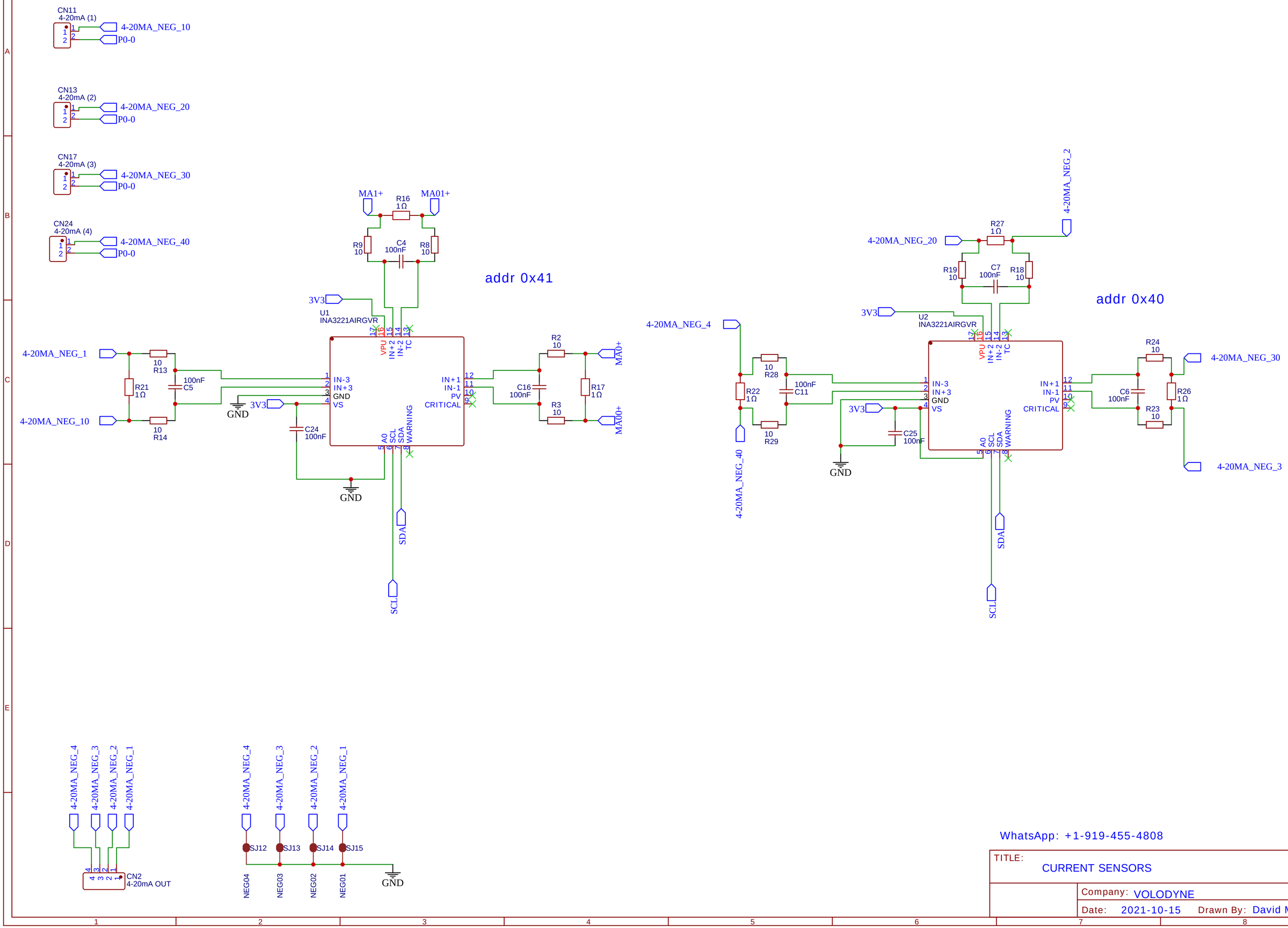
TITLE: MICRO PROCESSOR I2C - MODBUS TCP	REV: 18.15
Company: VOLODYNE	Sheet: 5/6
Date: 2021-10-15 Drawn By: David Marshall	



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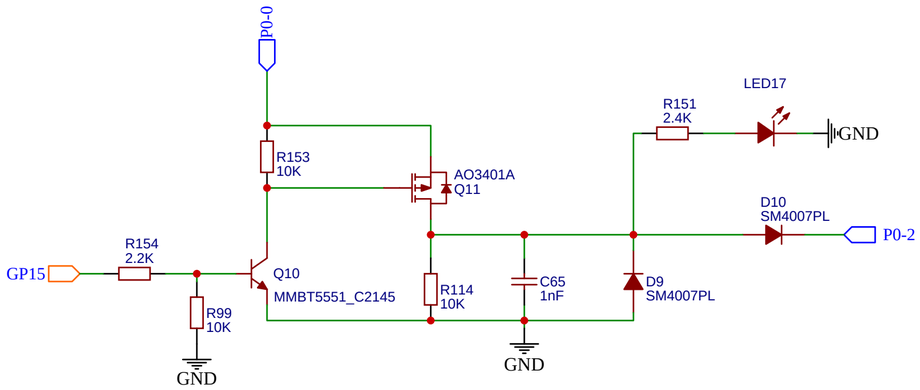
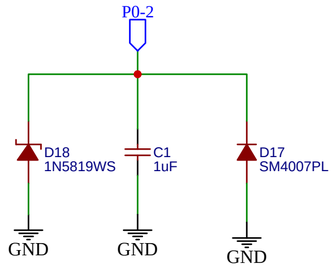
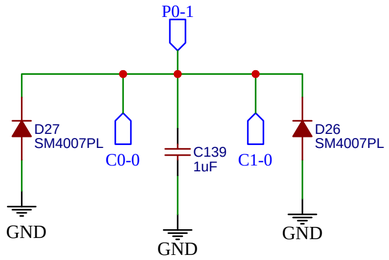
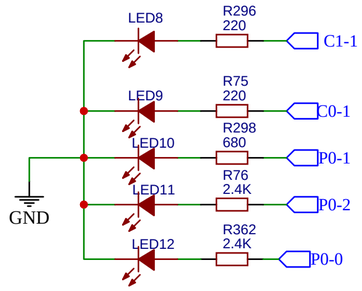
TITLE: CURRENT SENSORS		REV: 18.15
	Company: VOLODYNE	Sheet: 6/6
	Date: 2021-10-15 Drawn By: David Marshall	

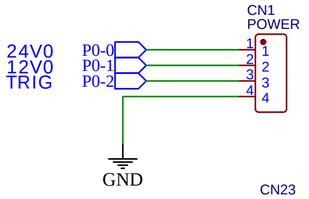


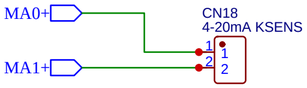


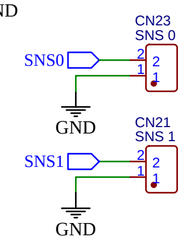
P0-2 Protection





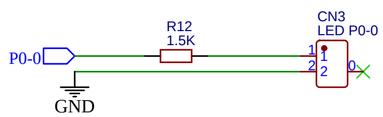






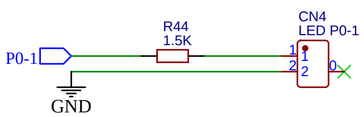
24VDC /
20 Milli Amps /
LED Load

LED P0-0, 24VDC



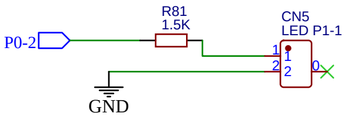
24VDC /
20 Milli Amps /
LED Load

LED P0-1, 12VDC

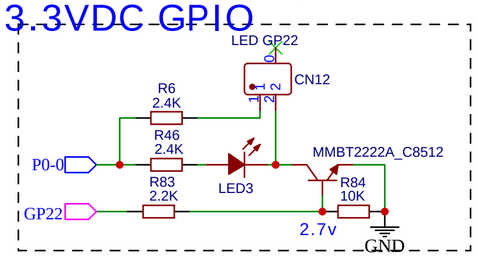


24VDC /
20 Milli Amps /
LED Load

LED P0-2, 24VDC

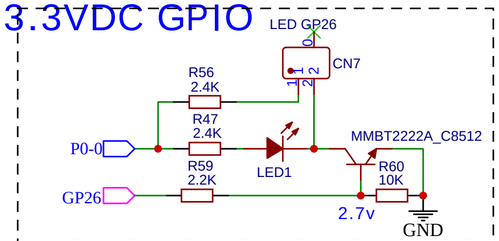


LED PICO GP22, 3.3VDC GPIO



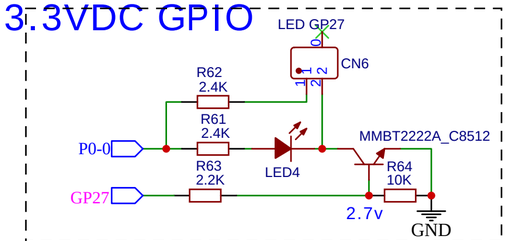
24VDC /
20 Milli Amps /
LED Load

LED PICO GP26, 3.3VDC GPIO

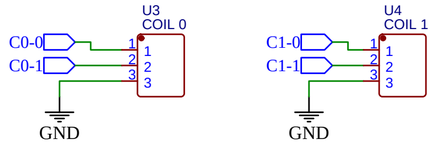


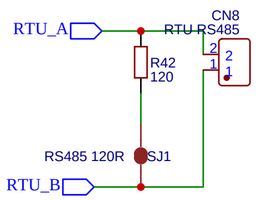
24VDC /
20 Milli Amps /
LED Load

LED PICO GP27, 3.3VDC GPIO



24VDC /
20 Milli Amps /
LED Load





R42 120R
JUMPER NEEDED
CUT ON PCB
TO DISABLE

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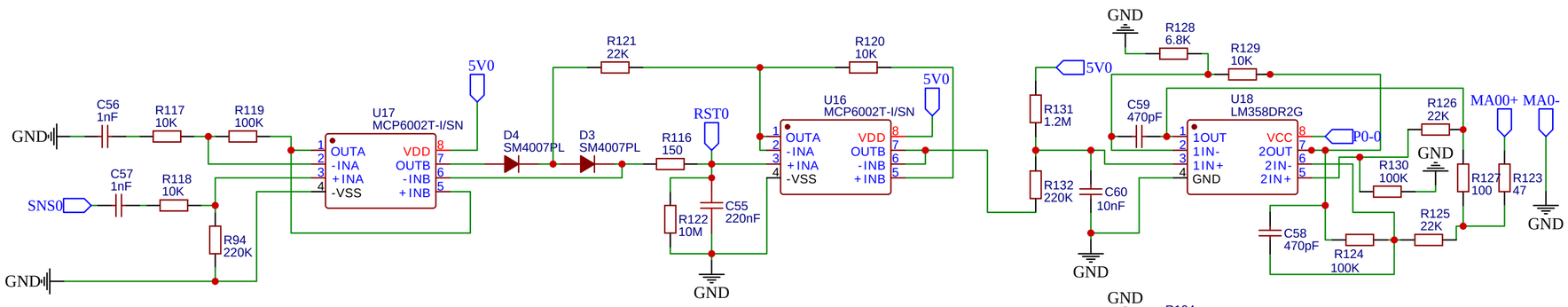
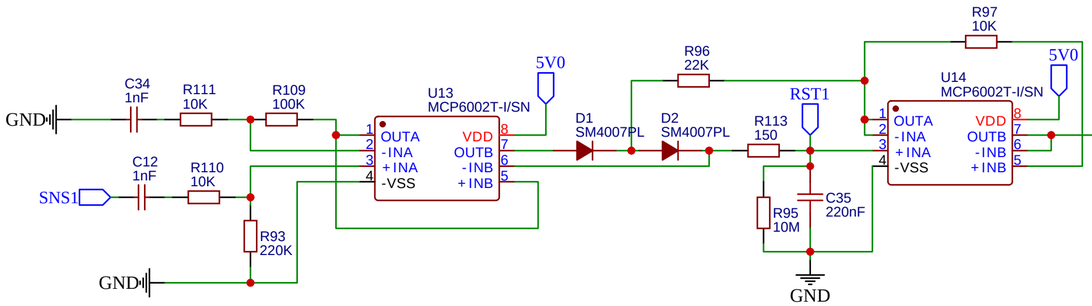
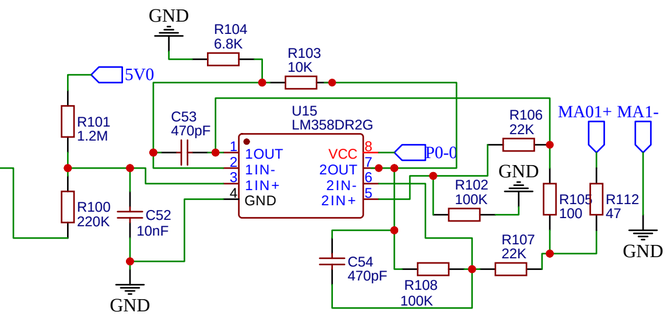
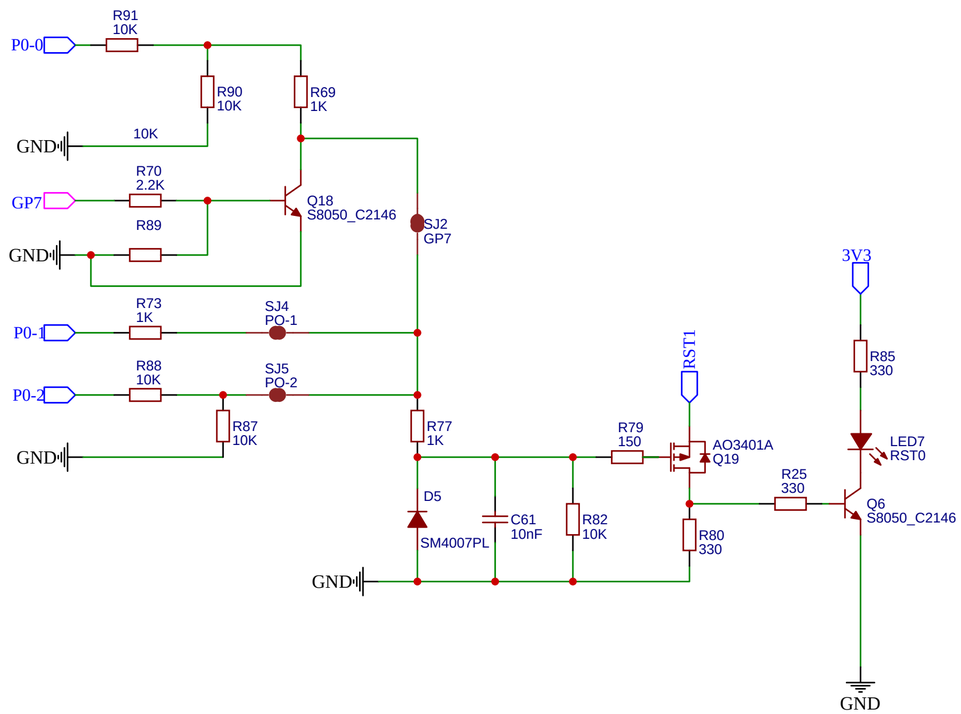
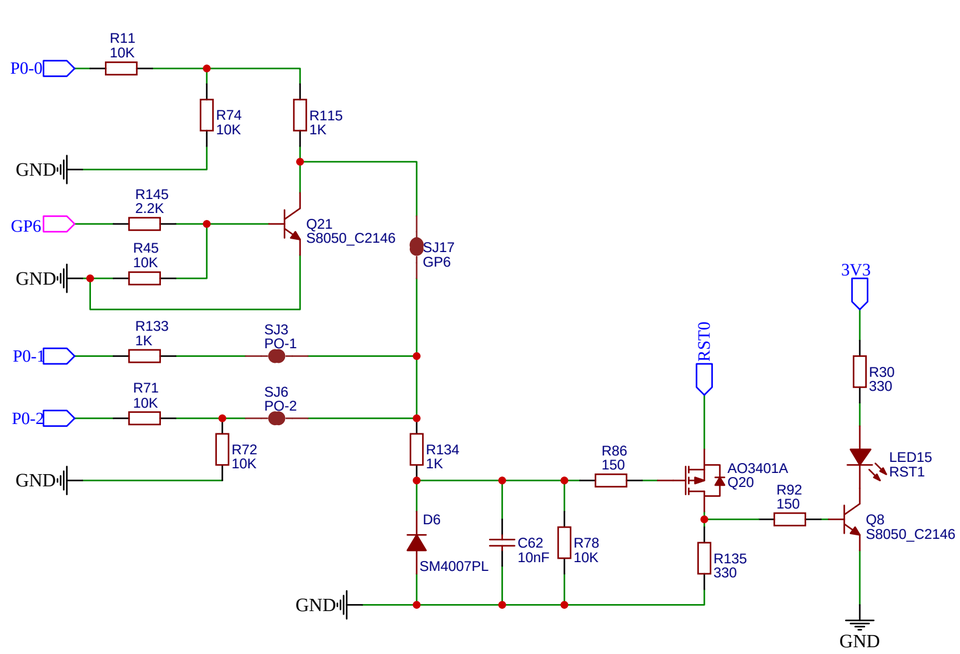
TITLE: connectors		REV: 18.15
EasyEDA	Company: VOLODYNE	Sheet: 1/6
	Date: 2021-11-04 Drawn By: David Marshall	











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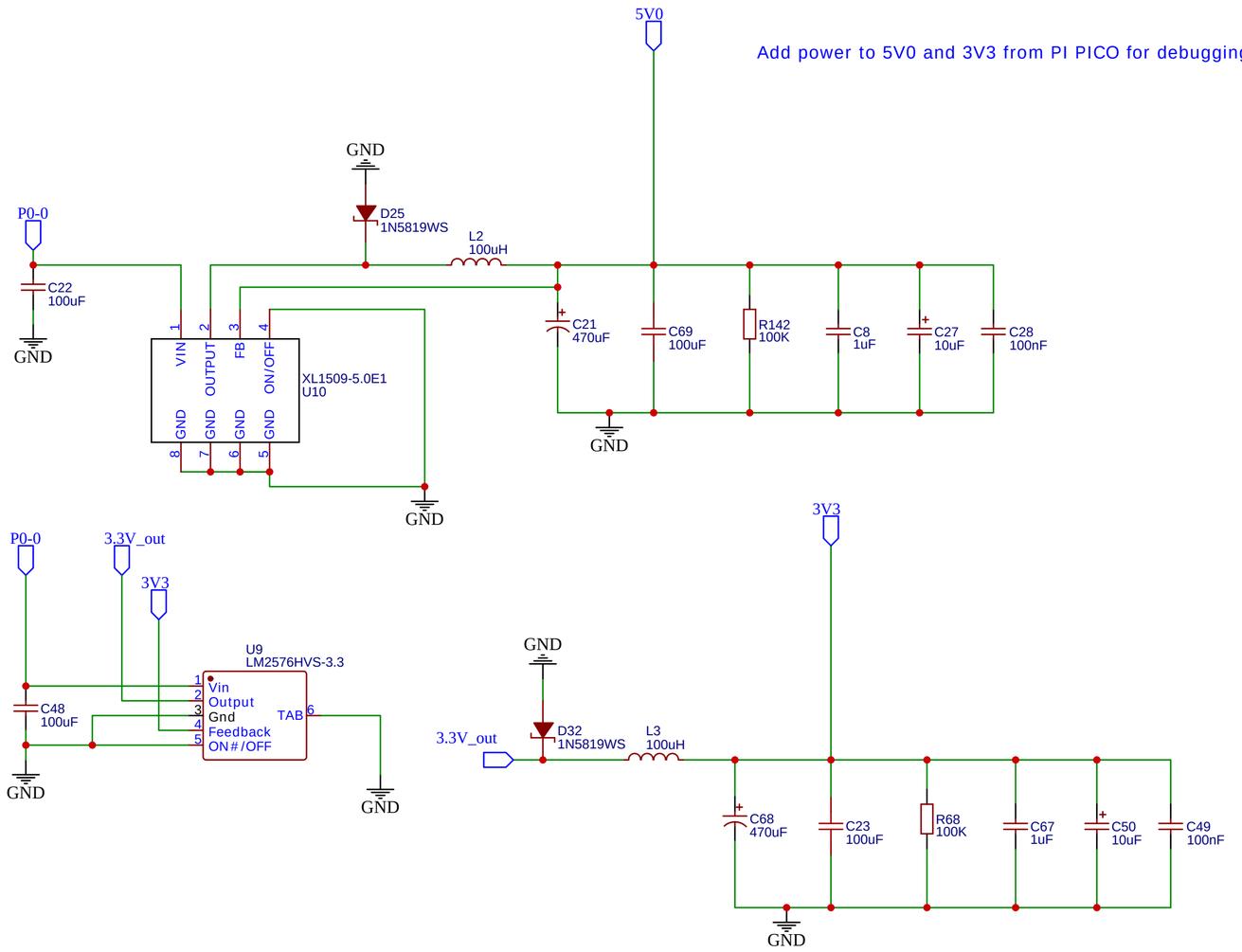
TITLE: KNOCK SENSOR		REV: 18.15
EasyEDA	Company: VOLODYNE	Sheet: 4/6
	Date: 2021-11-04 Drawn By: David Marshall	

Add power to 5V0 and 3V3 from PI PICO for debugging with protection.



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TITLE: POWER SUPPLY	REV: 18.15
EasyEDA Company: VOLODYNE	Sheet: 2/6
Date: 2021-11-04 Drawn By: David Marshall	