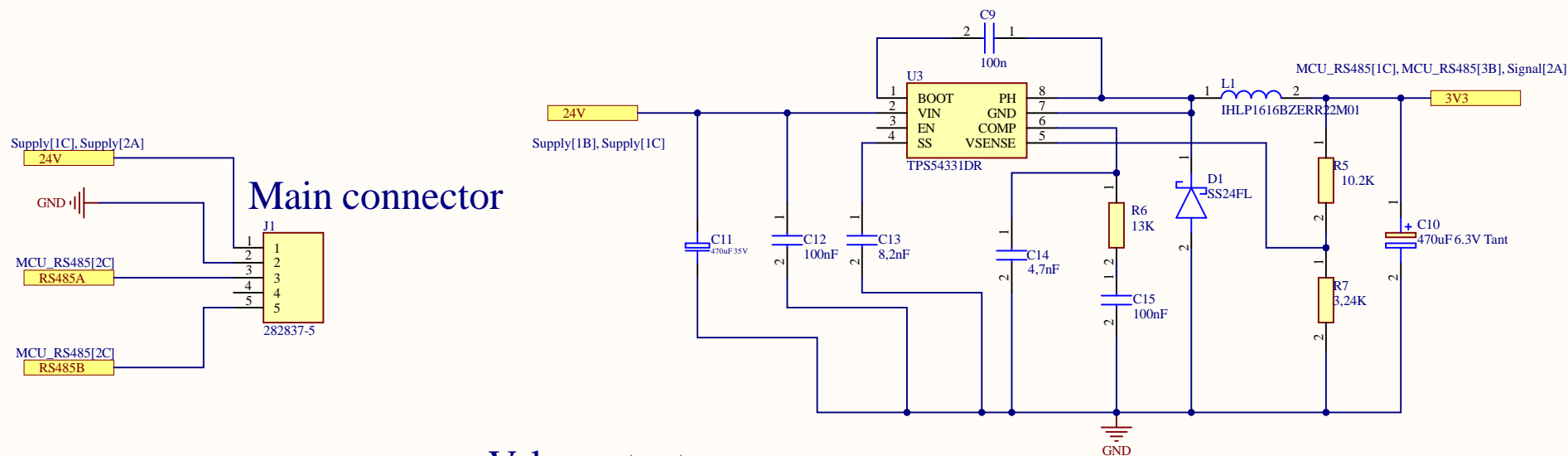
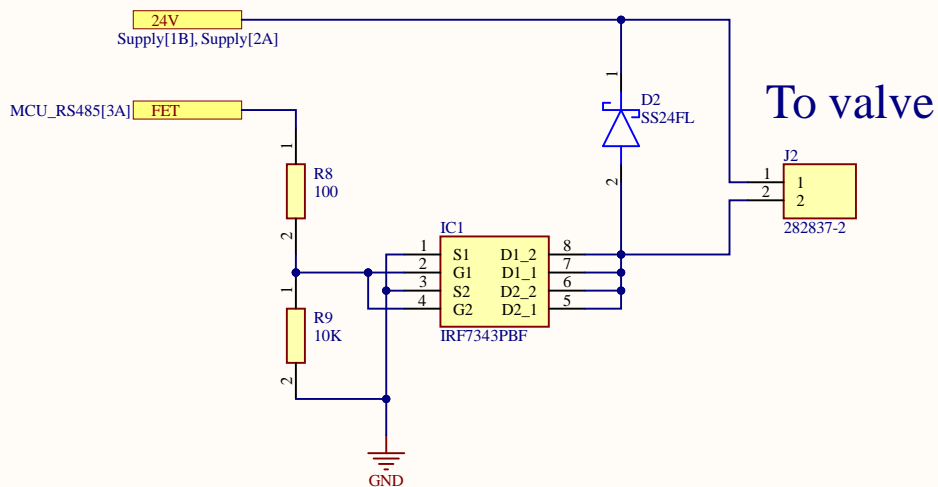


## 3V3 DC/DC power regulator



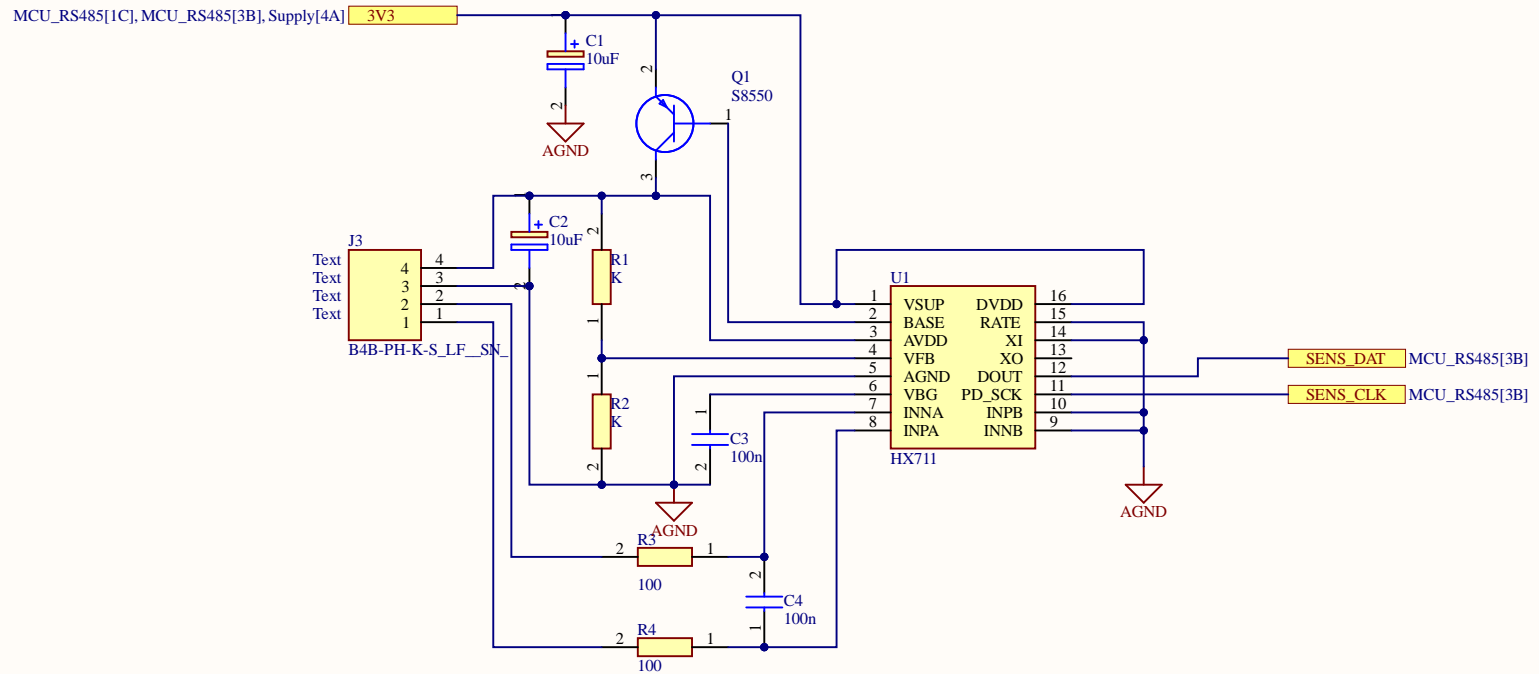
## Valve actuator



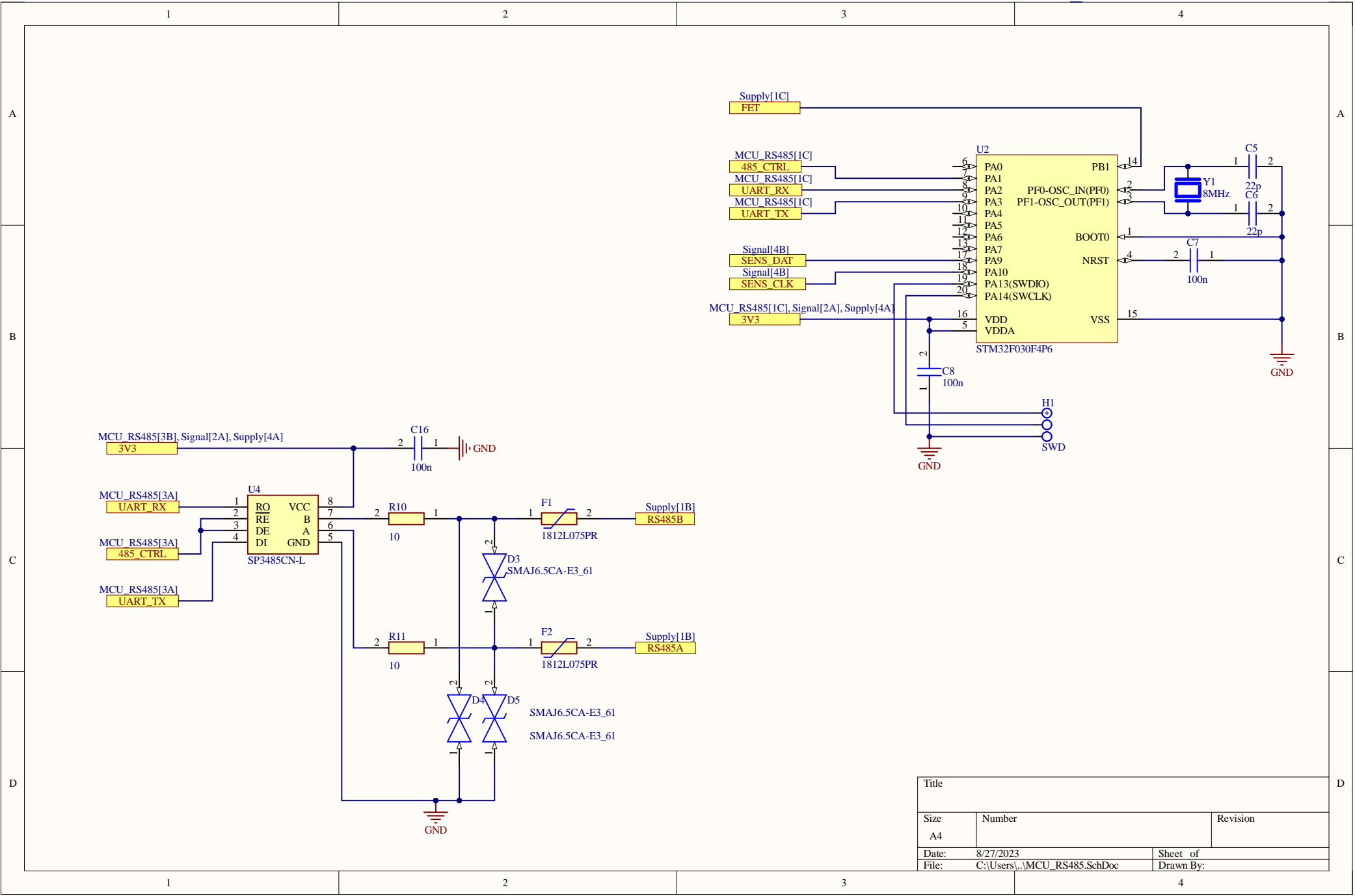
To valve

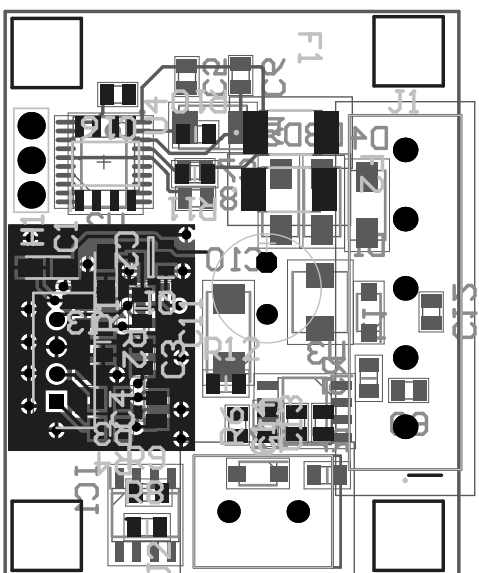
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Size	Number	Revision
A4		
Date:	8/27/2023	Sheet of
File:	C:\Users\...\Supply.SchDoc	Drawn By:

# Tensosensor signal converter



Title		
Size	Number	Revision
A4		
Date:	8/27/2023	Sheet of
File:	C:\Users\...\Signal.SchDoc	Drawn By:





Comment	Description	Designator	Footprint	LibRef	Quantity
10uF	Capacitor Polarised	C1, C2	CAPPM3216X180N	293D105X9016AW2E3	2
100n	Capacitor	C3, C4, C7, C8, C9, C16	CAPC2012X94N	08055A471FAT4A	6
22p	Capacitor	C5, C6	CAPC2012X94N	08055A471FAT4A	2
470uF 6.3V Tant	Capacitor Polarised	C10	CAPPM6032X280N	TAJC477K004RNJ	1
470uF 35V	35V-105F 0.50m 0.4A	C11	EI-d8-h12-F3.81	100u-35V-105F	1
100nF	Capacitor	C12, C15	CAPC2012X94N	08055A471FAT4A	2
8,2nF	Capacitor	C13	CAPC2012X94N	08055A471FAT4A	1
4,7nF	Capacitor	C14	CAPC2012X94N	08055A471FAT4A	1
SS24FL	Schottky Diode	D1, D2	SODFL3617X108N	SS24FL	2
SMAJ6.5CA-E3_61	TVS Diode (Bi-directional)	D3, D4, D5	DIONM5127X229N	SMAJ6.5CA-E3_61	3
1812L075PR	Resettable Fuse	F1, F2	1812L010DR	1812L075PR	2
SWD		H1	J1x3	H-1x3	1
IRF7343PBF	Integrated Circuit	IC1	SOIC127P600X175-8N	IRF7343PBF	1
282837-5	Connector	J1	2828375	282837-5	1
282837-2	Connector	J2	2828372	282837-2	1
B4B-PH-K-S_LF__SN_	Connector	J3	SHDR4W50P0X200_1X4_990X450X600P	B4B-PH-K-S_LF__SN_	1
IHLP1616BZERR22M01	Inductor	L1	INDPM4441X200N	IHLP1616BZERR22M01	1
S8550	Transistor BJT PNP	Q1	SOT95P240X110-3N	S8550	1
K	Resistor	R1, R2	RESC2012X65N	CPF0805B102KE1	2
100	Resistor	R3, R4, R8	RESC2012X65N	CPF0805B102KE1	3
10.2K	Resistor	R5	RESC2012X65N	CPF0805B102KE1	1
13K	Resistor	R6	RESC2012X65N	CPF0805B102KE1	1
3,24K	Resistor	R7	RESC2012X65N	CPF0805B102KE1	1
10K	Resistor	R9	RESC2012X65N	CPF0805B102KE1	1
10	Resistor	R10, R11	RESC2012X65N	CPF0805B102KE1	2
0	Resistor	R12	RESC2012X65N	CPF0805B102KE1	1
HX711	Integrated Circuit	U1	SOIC127P600X160-16N	HX711	1
STM32F030F4P6	ARM Cortex-M0 32-bit MCU, 16 KB Flash, 4 KB Internal RAM, 15 I/Os, 20-pin TSSOP, -40 to 85 degC, Tube	U2	STM-TSSOP20_L	STM32F030F4P6	1
TPS54331DR	Integrated Circuit	U3	SOIC127P600X175-8N	TPS54331D	1
SP3485CN-L	Integrated Circuit	U4	SOIC127P600X175-8N	SP3485CN-L	1
8MHz	Ceramic SMD Crystal	Y1	XTAL_ABM3-14.7456MHZ-D2Y-T	ABM3-14.7456MHZ-D2Y-T	1