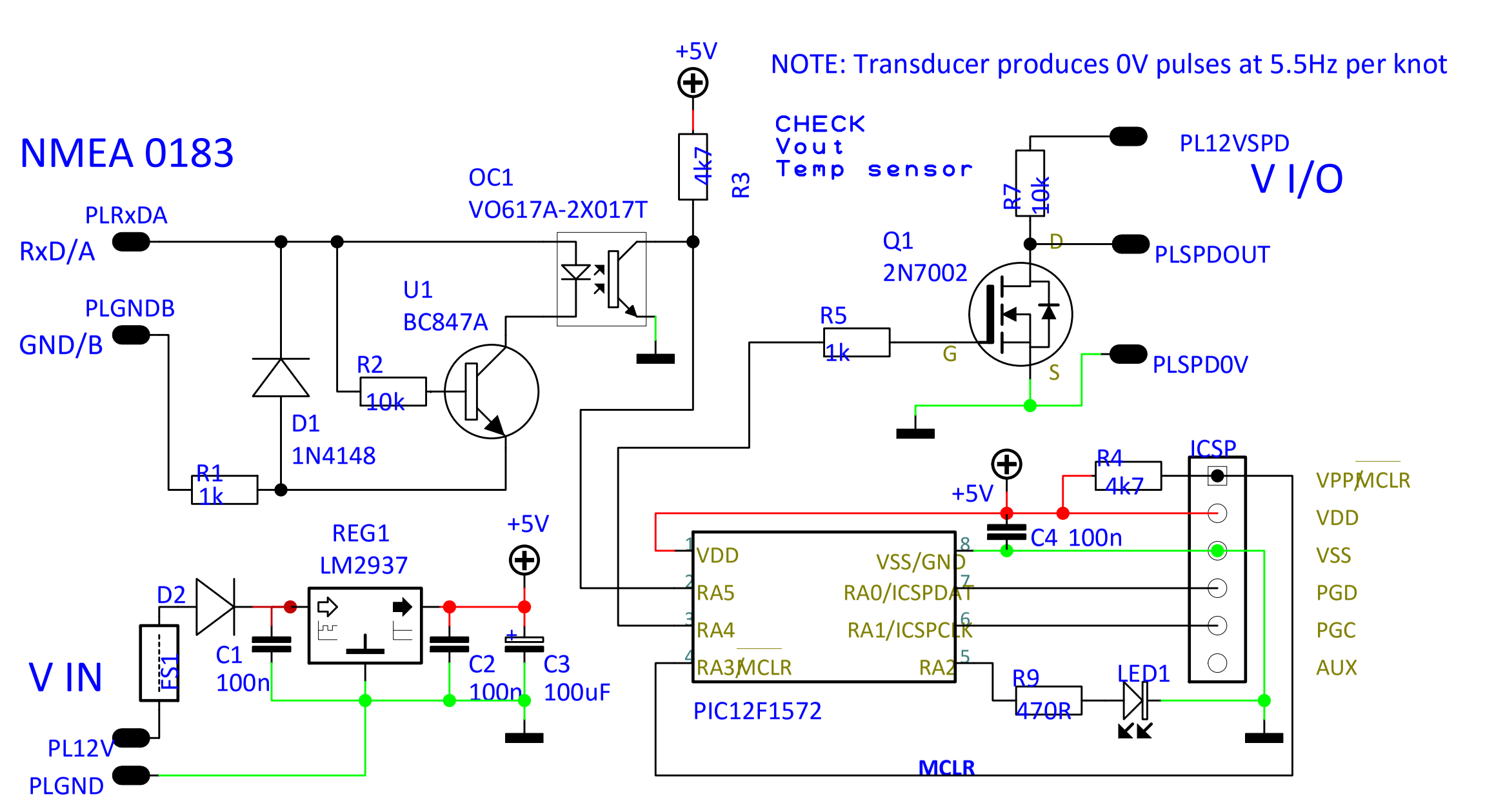
NMEA 0183
PLRxDA
RxD/A
PLGNDB
GND/B
OC1
VO617A-2X017T
U1
BC847A
R1
1k
D1
1N4148
R2
10k
+5V
4k7
R3
NOTE: Transducer produces 0V pulses at 5.5Hz per knot
CHECK
Vout
Temp sensor
PL12VSPD
V I/O
R7
10k
Q1
2N7002
D
G
S
PLSPDOUT
PLSPD0V
R5
1k
V IN
PL12V
PLGND
D2
ES1
C1
100n
REG1
LM2937
C2
100n
C3
100uF
+5V
+5V
C4 100n
R4
4k7
ICSP
VPP/MCLR
VDD
VSS
PGD
PGC
AUX
VDD
RA5
RA4
RA3/MCLR
VSS/GND
RA0/ICSPDAT
RA1/ICSPCLK
RA2
PIC12F1572
R9
470R
LED1
MCLR