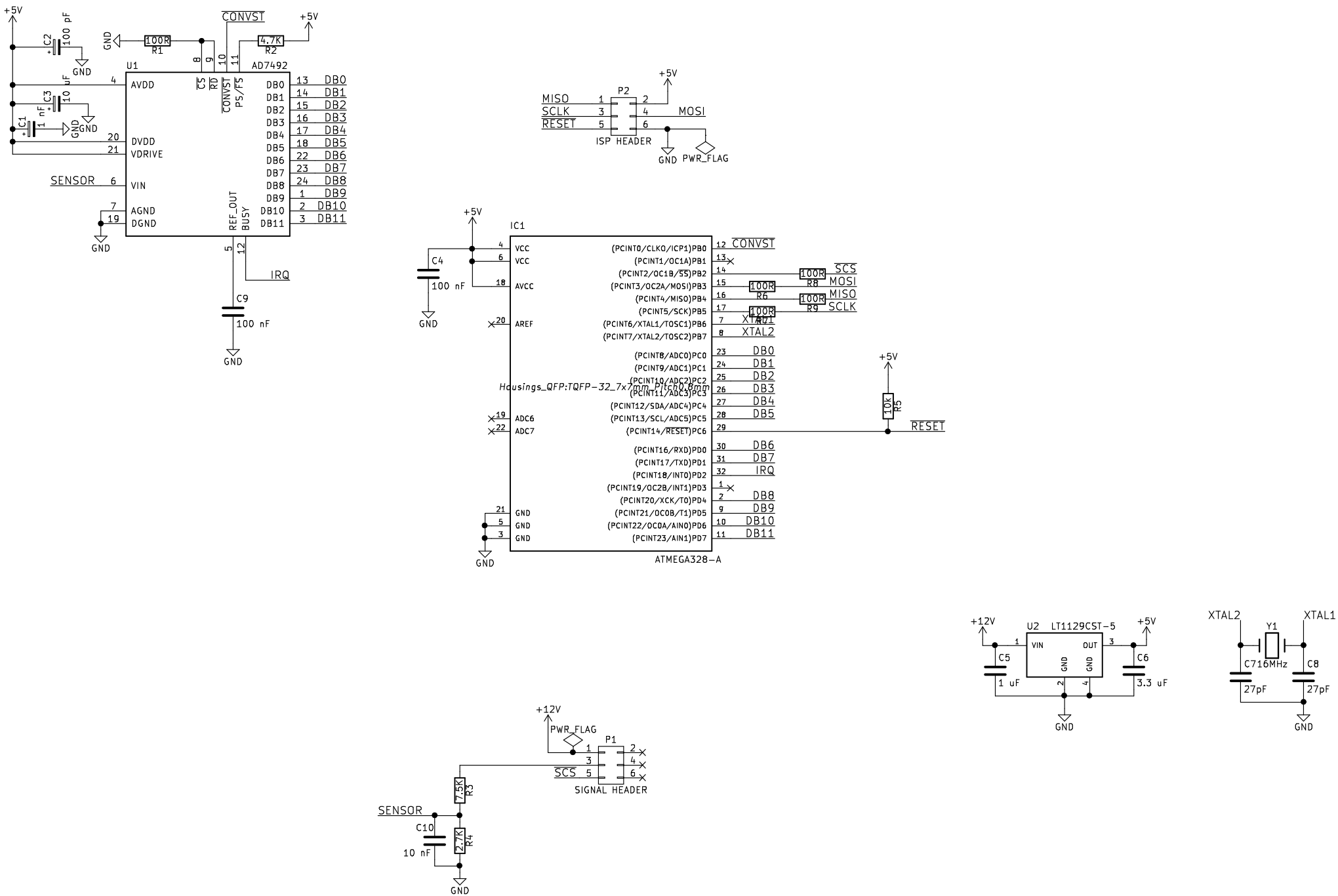

+5V
C2
100 pF
GND
100R
R1
CONVST
4.7K
R2
U1
AD7492
AVDD
C3
10 uF
C1
1 nF
DVDD
VDRIVE
SENSOR
VIN
AGND
DGND
CS
RD
CONVST
PS/FS
REF_OUT
BUSY
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
DB8
DB9
DB10
DB11
IRQ
C9
100 nF
P2
MISO
SCLK
RESET
MOSI
ISP HEADER
PWR_FLAG
IC1
C4
100 nF
VCC
AVCC
AREF
ADC6
ADC7
GND
(PCINT0/CLKO/ICP1)PB0
(PCINT1/OC1A)PB1
(PCINT2/OC1B/SS)PB2
(PCINT3/OC2A/MOSI)PB3
(PCINT4/MISO)PB4
(PCINT5/SCK)PB5
(PCINT6/XTAL1/TOSC1)PB6
(PCINT7/XTAL2/TOSC2)PB7
(PCINT8/ADC0)PC0
(PCINT9/ADC1)PC1
(PCINT10/ADC2)PC2
(PCINT11/ADC3)PC3
(PCINT12/SDA/ADC4)PC4
(PCINT13/SCL/ADC5)PC5
(PCINT14/RESET)PC6
(PCINT16/RXD)PD0
(PCINT17/TXD)PD1
(PCINT18/INT0)PD2
(PCINT19/OC2B/INT1)PD3
(PCINT20/XCK/T0)PD4
(PCINT21/OC0B/T1)PD5
(PCINT22/OC0A/AIN0)PD6
(PCINT23/AIN1)PD7
Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm
ATMEGA328-A
SCS
MOSI
MISO
SCLK
XTAL1
XTAL2
R8
R6
R9
10k
R5
+12V
U2
LT1129CST-5
VIN
OUT
GND
C5
1 uF
C6
3.3 uF
XTAL2
XTAL1
Y1
C7
16MHz
C8
27pF
P1
SIGNAL HEADER
7.5K
R3
2.7K
R4
C10
10 nF