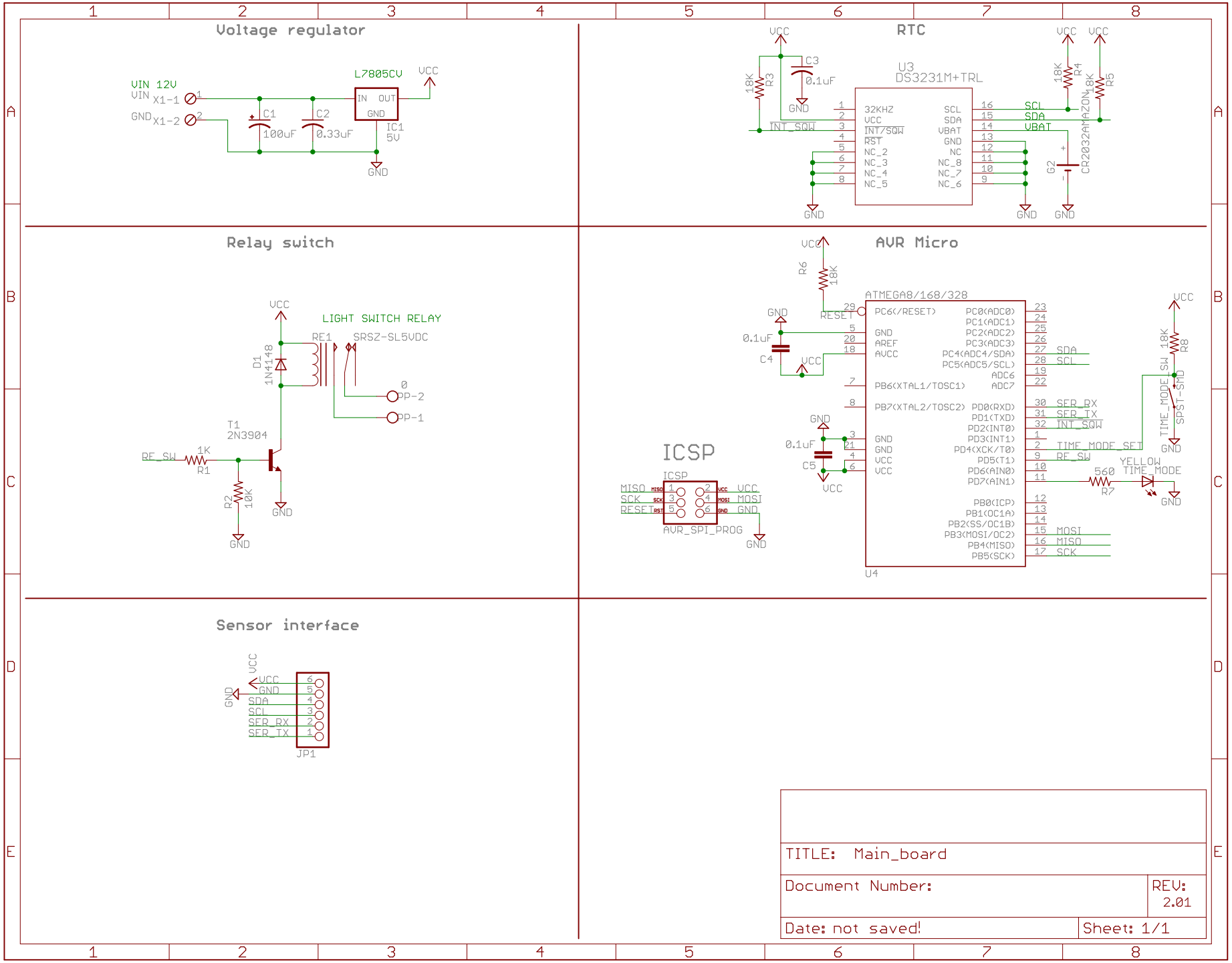
Voltage regulator
VIN 12V
VIN X1-1
GND X1-2
C1
100uF
C2
0.33uF
L7805CV
IN OUT
GND
IC1
5V
VCC
GND
RTC
U3
DS3231M+TRL
VCC
C3
0.1uF
R3
18K
GND
INT_SQW
32KHZ
VCC
INT/SQW
RST
NC_2
NC_3
NC_4
NC_5
SCL
SDA
VBAT
GND
NC
NC_8
NC_7
NC_6
R4
18K
R5
18K
CR2032MAZON
G2
Relay switch
VCC
LIGHT SWITCH RELAY
RE1
SRSZ-SL5VDC
D1
1N4148
0
PP-2
PP-1
T1
2N3904
RF_SW
1K
R1
R2
10K
GND
AVR Micro
VCC
R6
18K
GND
RESET
0.1uF
C4
ATMEGA8/168/328
PC6(/RESET)
GND
AREF
AVCC
PB6(XTAL1/TOSC1)
PB7(XTAL2/TOSC2)
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4/SDA)
PC5(ADC5/SCL)
ADC6
ADC7
PD0(RXD)
PD1(TXD)
PD2(INT0)
PD3(INT1)
PD4(XCK/T0)
PD5(T1)
PD6(AIN0)
PD7(AIN1)
PB0(ICP)
PB1(OC1A)
PB2(SS/OC1B)
PB3(MOSI/OC2)
PB4(MISO)
PB5(SCK)
SDA
SCL
SER_RX
SER_TX
INT_SQW
TIME_MODE_SET
RF_SW
MOSI
MISO
SCK
U4
R8
18K
TIME_MODE_SW
SPST-SMD
GND
560
R7
YELLOW
TIME_MODE
ICSP
MISO
SCK
RESET
VCC
MOSI
GND
AVR_SPI_PROG
Sensor interface
VCC
GND
SDA
SCL
SER_RX
SER_TX
JP1
TITLE: Main_board
Document Number:
REV: 2.01
Date: not saved!
Sheet: 1/1