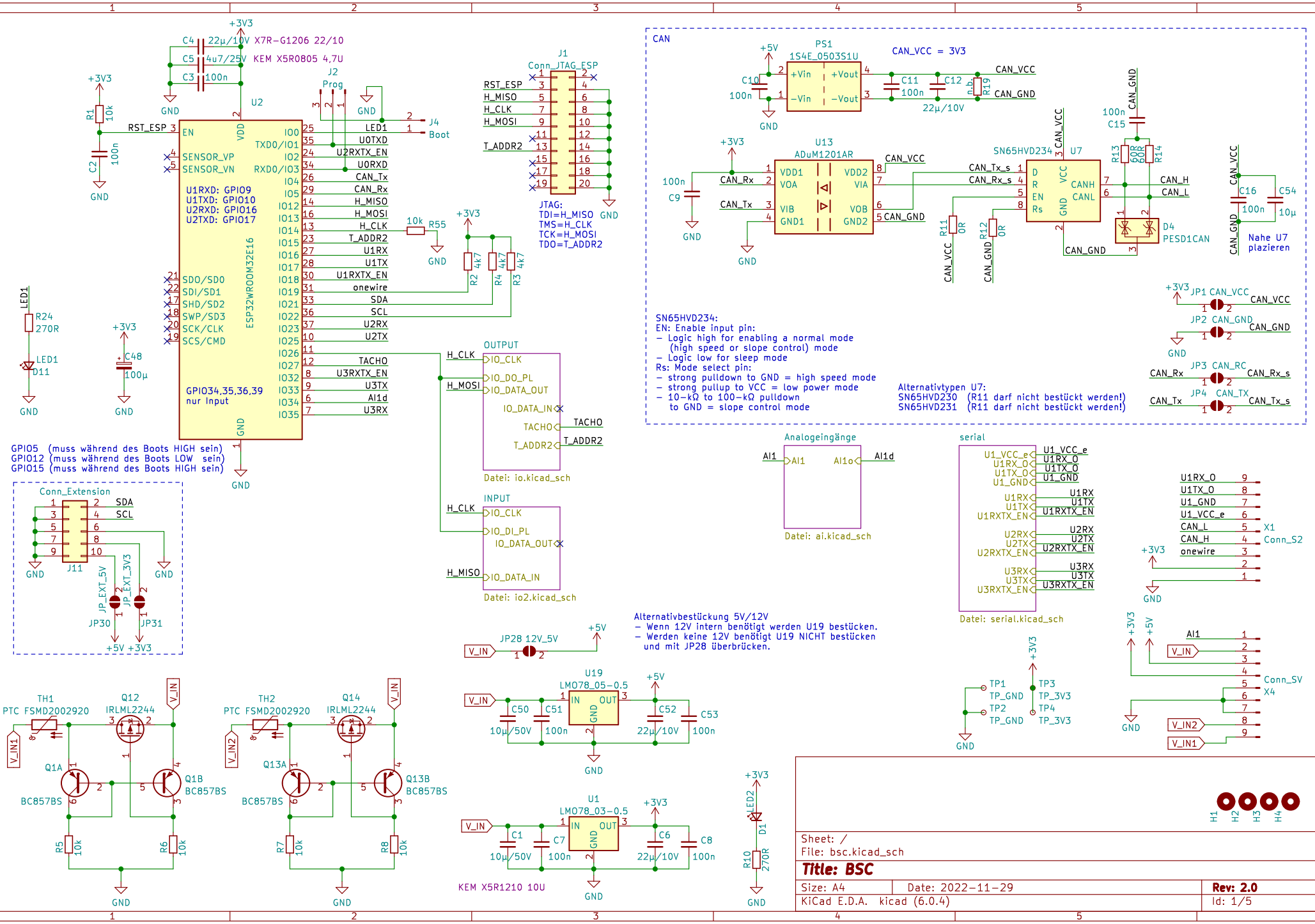
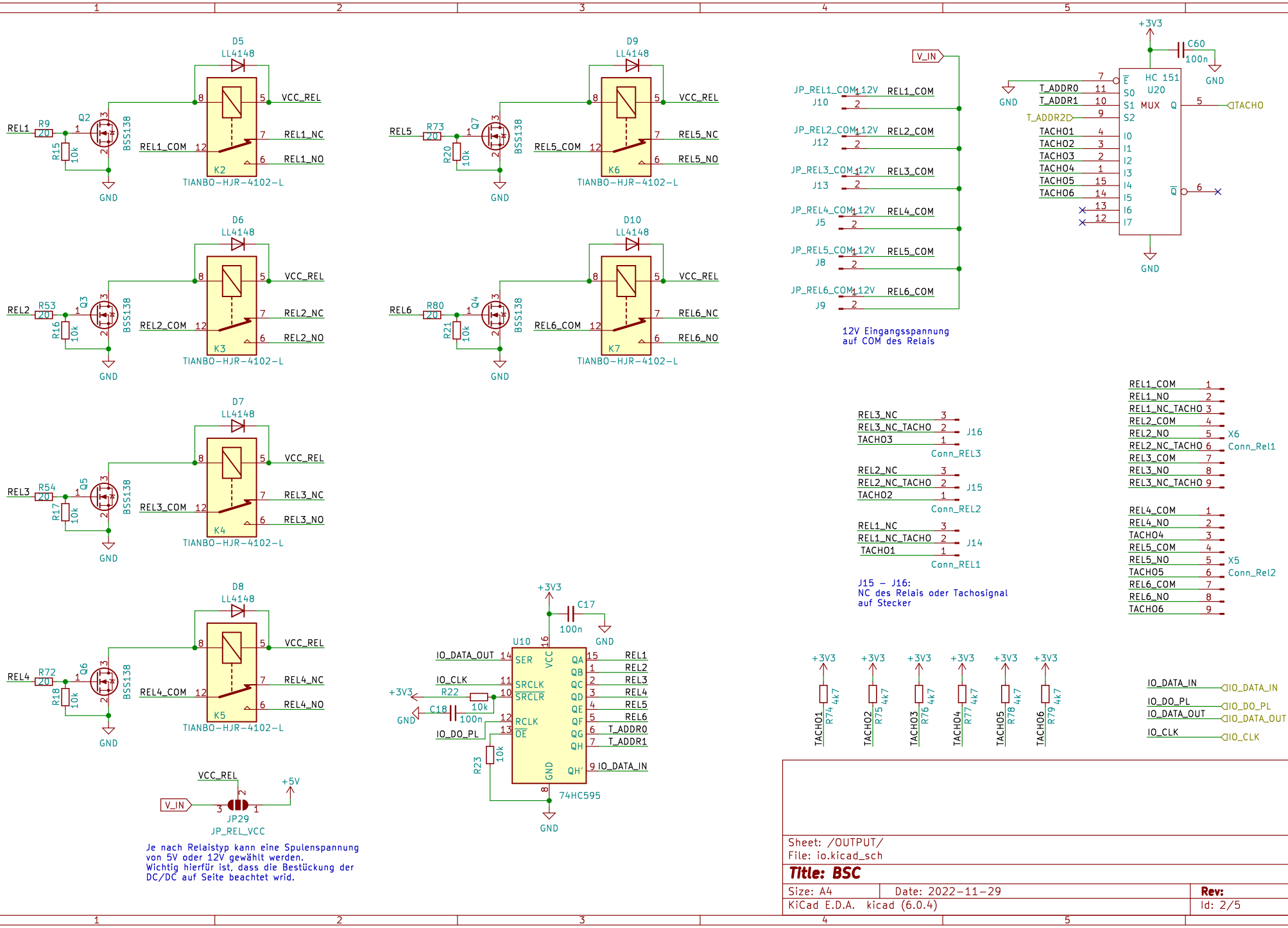
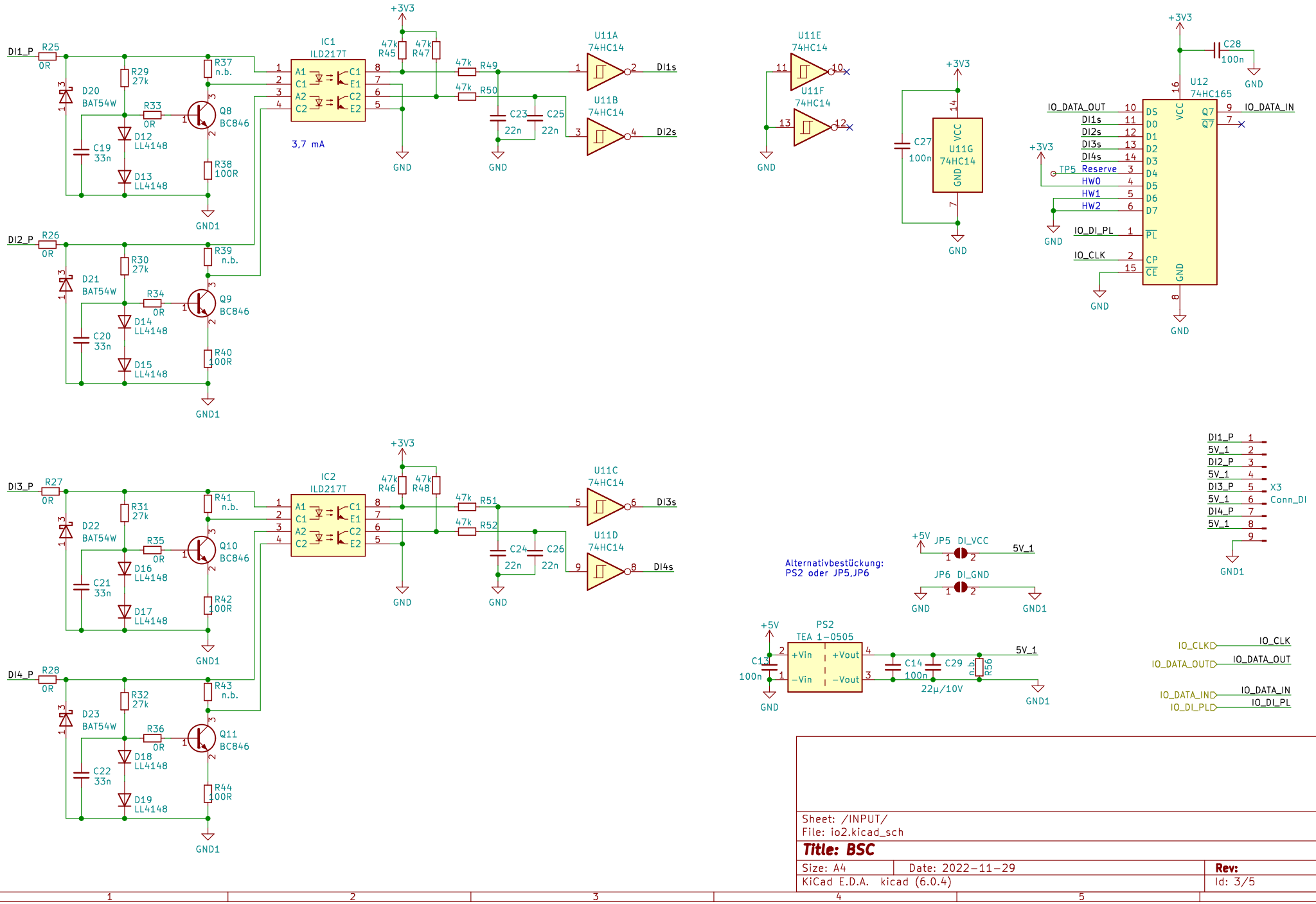

CAN
PS1
1S4E_0503S1U
CAN_VCC = 3V3
U13
ADuM1201AR
SN65HVD234
U7
D4
PESD1CAN
SN65HVD234:
EN: Enable input pin:
– Logic high for enabling a normal mode (high speed or slope control) mode
– Logic low for sleep mode
Rs: Mode select pin:
– strong pulldown to GND = high speed mode
– strong pullup to VCC = low power mode
– 10–kΩ to 100–kΩ pulldown to GND = slope control mode
Alternativtypen U7:
SN65HVD230 (R11 darf nicht bestückt werden!)
SN65HVD231 (R11 darf nicht bestückt werden!)
Nahe U7 plazieren
ESP32WROOM32E16
U1RXD: GPIO9
U1TXD: GPIO10
U2RXD: GPIO16
U2TXD: GPIO17
GPIO34,35,36,39 nur Input
GPIO5 (muss während des Boots HIGH sein)
GPIO12 (muss während des Boots LOW sein)
GPIO15 (muss während des Boots HIGH sein)
J1
Conn_JTAG_ESP
JTAG:
TDI=H_MISO
TMS=H_CLK
TCK=H_MOSI
TDO=T_ADDR2
OUTPUT
Datei: io.kicad_sch
INPUT
Datei: io2.kicad_sch
Analogeingänge
Datei: ai.kicad_sch
serial
Datei: serial.kicad_sch
Conn_Extension
Alternativbestückung 5V/12V
– Wenn 12V intern benötigt werden U19 bestücken.
– Werden keine 12V benötigt U19 NICHT bestücken und mit JP28 überbrücken.
TH1
PTC FSMD2002920
TH2
PTC FSMD2002920
Q12
IRLML2244
Q14
IRLML2244
Q1A
Q1B
Q13A
Q13B
BC857BS
U19
LMO78_05–0.5
U1
LMO78_03–0.5
KEM X5R1210 10U
Sheet: /
File: bsc.kicad_sch
Title: BSC
Size: A4
Date: 2022–11–29
Rev: 2.0
KiCad E.D.A. kicad (6.0.4)
Id: 1/5



Sheet: /OUTPUT/
File: io.kicad_sch

Title: BSC

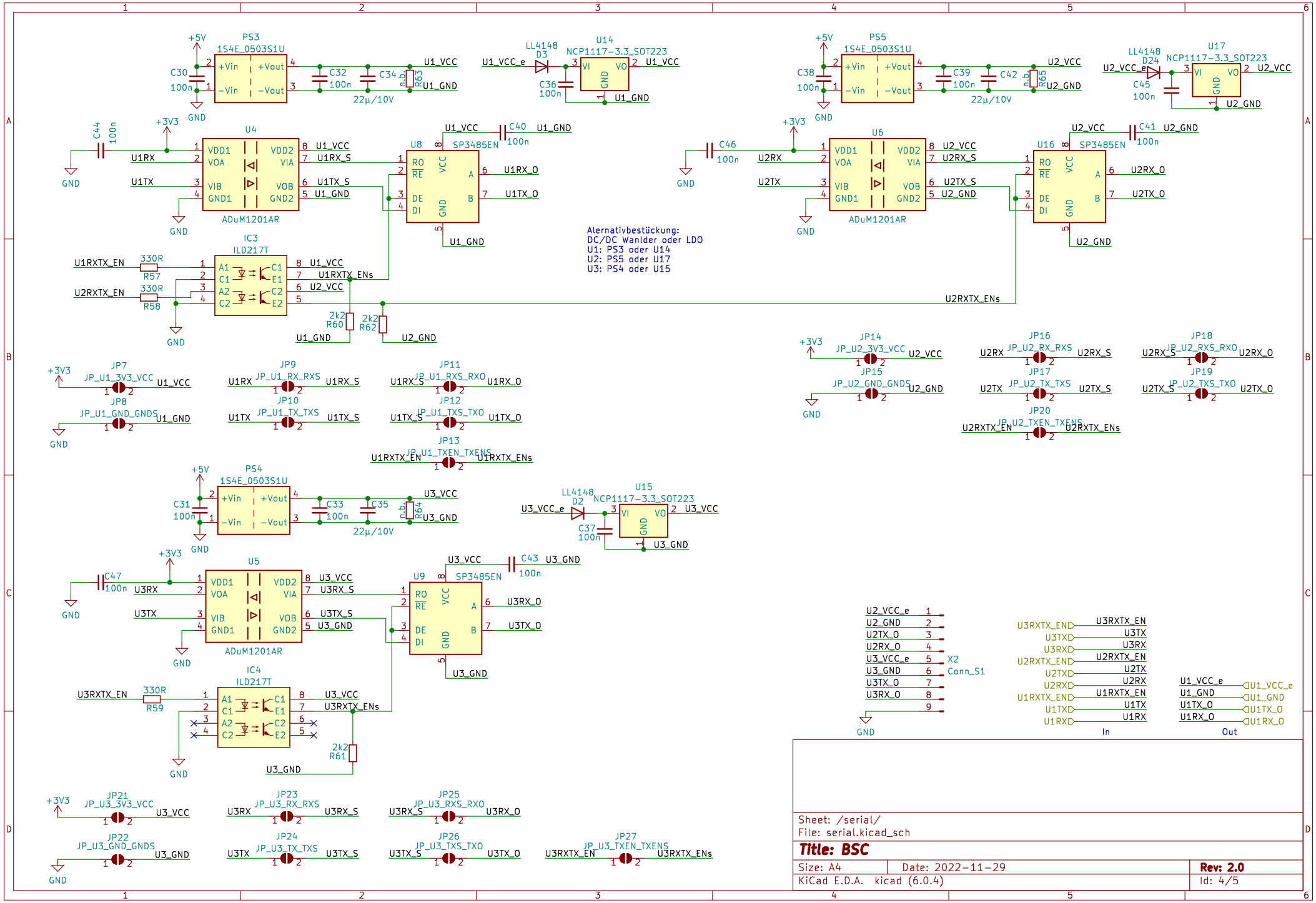
Size: A4	Date: 2022-11-29	Rev:
KiCad E.D.A. kicad (6.0.4)		Id: 2/5



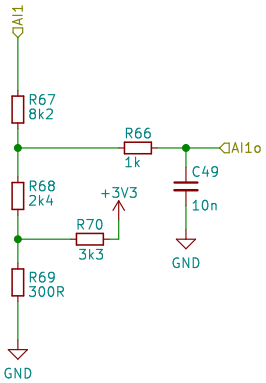
Sheet: /INPUT/
File: io2.kicad_sch

Title: BSC

Size: A4	Date: 2022-11-29	Rev:
KiCad E.D.A. kicad (6.0.4)		Id: 3/5


PS3
1S4E_0503S1U
PS5
1S4E_0503S1U
PS4
1S4E_0503S1U
U4
ADuM1201AR
U5
ADuM1201AR
U6
ADuM1201AR
U8
SP3485EN
U9
SP3485EN
U16
SP3485EN
U14
NCP1117-3.3_SOT223
U15
NCP1117-3.3_SOT223
U17
NCP1117-3.3_SOT223
IC3
ILD217T
IC4
ILD217T
Alernativbestückung:
DC/DC Wandler oder LDO
U1: PS3 oder U14
U2: PS5 oder U17
U3: PS4 oder U15
X2
Conn_S1
In
Out
Sheet: /serial/
File: serial.kicad_sch
Title: BSC
Size: A4
Date: 2022-11-29
Rev: 2.0
KiCad E.D.A. kicad (6.0.4)
Id: 4/5

AI 0-10V



Sheet: /Analogeingänge/		
File: ai.kicad_sch		
Title: BSC		
Size: A4	Date: 2022-11-29	**Rev:**
KiCad E.D.A. kicad (6.0.4)		Id: 5/5