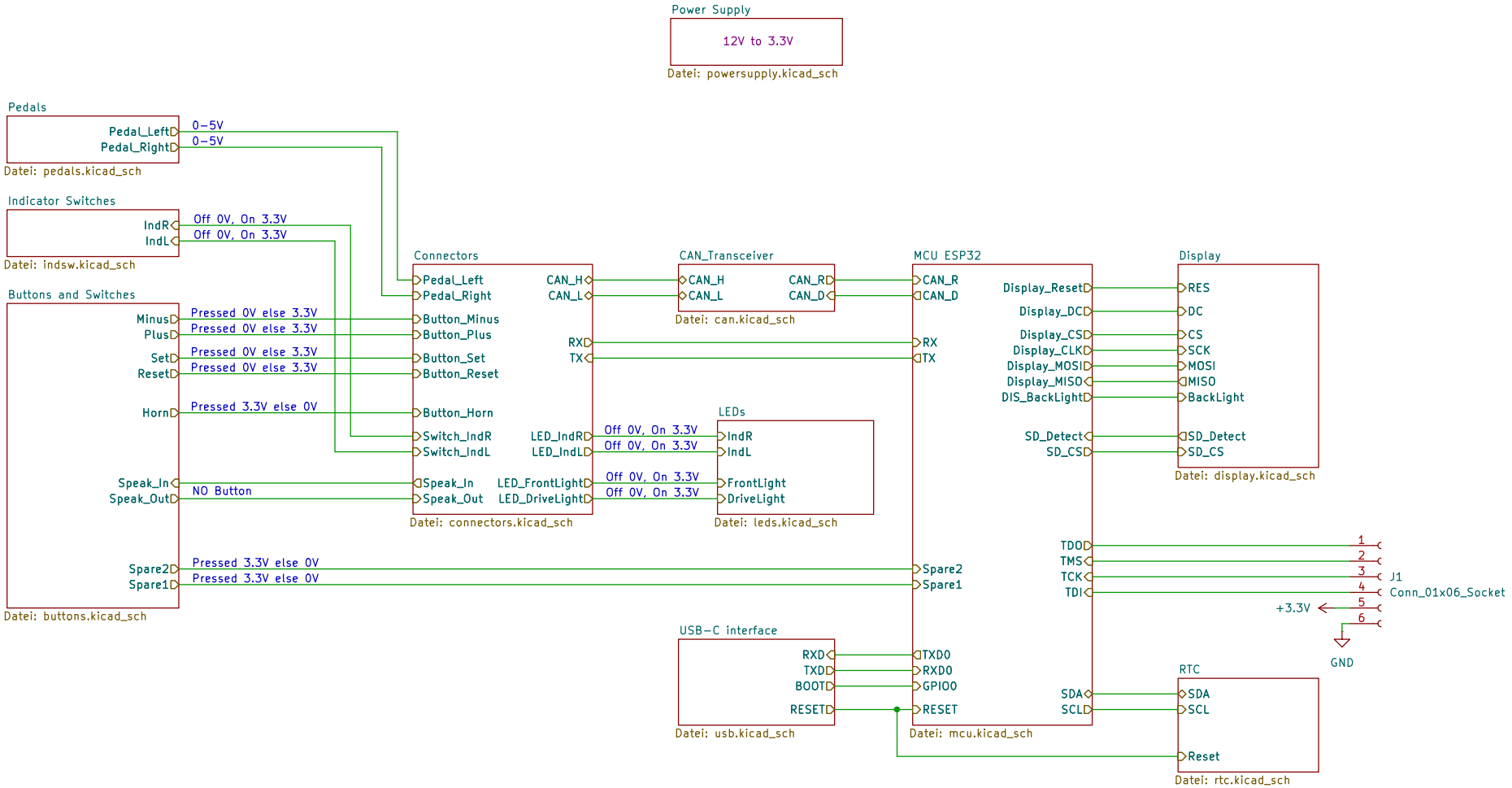
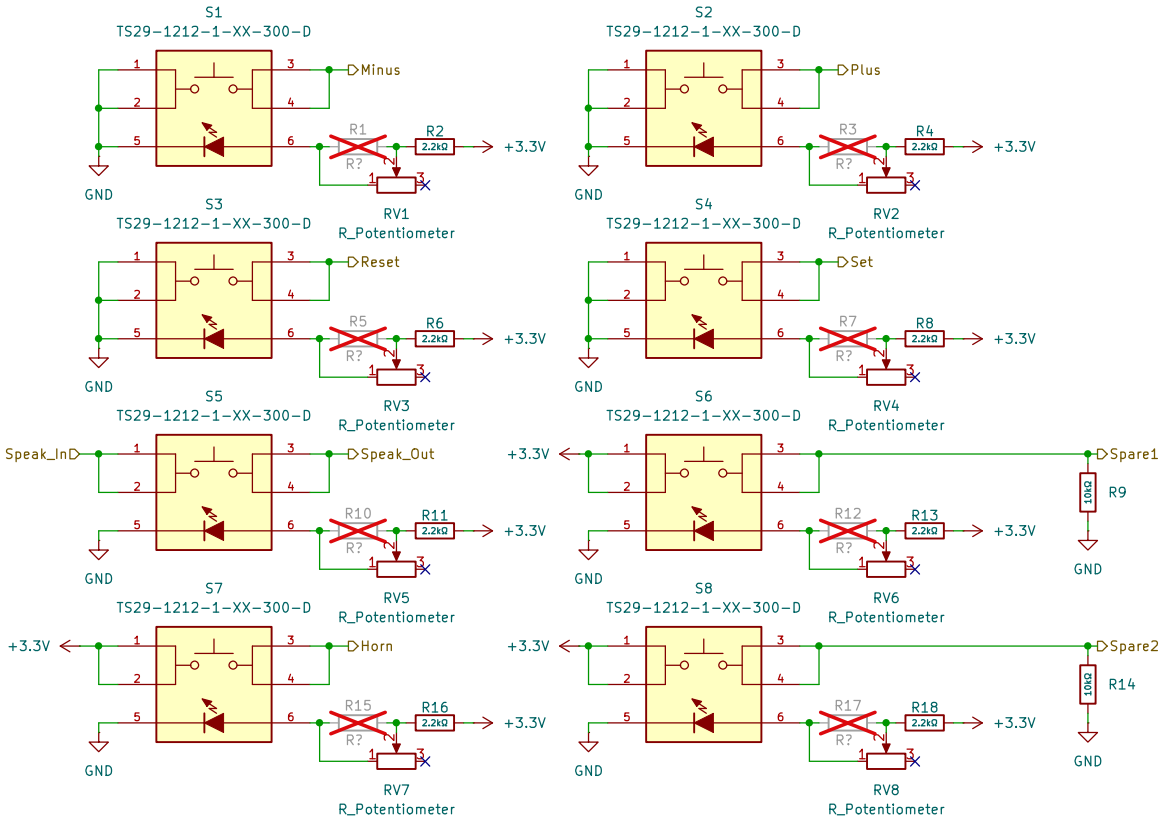

Power Supply
12V to 3.3V
Datei: powersupply.kicad_sch
Pedals
Pedal_Left
Pedal_Right
0–5V
0–5V
Datei: pedals.kicad_sch
Indicator Switches
IndR
IndL
Off 0V, On 3.3V
Off 0V, On 3.3V
Datei: indsw.kicad_sch
Buttons and Switches
Minus
Plus
Set
Reset
Horn
Speak_In
Speak_Out
Spare2
Spare1
Pressed 0V else 3.3V
Pressed 0V else 3.3V
Pressed 0V else 3.3V
Pressed 0V else 3.3V
Pressed 3.3V else 0V
NO Button
Pressed 3.3V else 0V
Pressed 3.3V else 0V
Datei: buttons.kicad_sch
Connectors
Pedal_Left
Pedal_Right
Button_Minus
Button_Plus
Button_Set
Button_Reset
Button_Horn
Switch_IndR
Switch_IndL
Speak_In
Speak_Out
CAN_H
CAN_L
RX
TX
LED_IndR
LED_IndL
LED_FrontLight
LED_DriveLight
Datei: connectors.kicad_sch
CAN_Transceiver
CAN_H
CAN_L
CAN_R
CAN_D
Datei: can.kicad_sch
LEDs
IndR
IndL
FrontLight
DriveLight
Off 0V, On 3.3V
Off 0V, On 3.3V
Off 0V, On 3.3V
Off 0V, On 3.3V
Datei: leds.kicad_sch
MCU ESP32
CAN_R
CAN_D
RX
TX
Spare2
Spare1
TXD0
RXD0
GPIO0
RESET
SDA
SCL
Display_Reset
Display_DC
Display_CS
Display_CLK
Display_MOSI
Display_MISO
DIS_BackLight
SD_Detect
SD_CS
TDO
TMS
TCK
TDI
Datei: mcu.kicad_sch
Display
RES
DC
CS
SCK
MOSI
MISO
BackLight
SD_Detect
SD_CS
Datei: display.kicad_sch
USB–C interface
RXD
TXD
BOOT
RESET
Datei: usb.kicad_sch
RTC
SDA
SCL
Reset
Datei: rtc.kicad_sch
J1
Conn_01x06_Socket
1
2
3
4
5
6
+3.3V
GND
H8
MountingHole
H9
MountingHole
H1
MountingHole
H2
MountingHole
H3
MountingHole
H4
MountingHole
H5
MountingHole
H6
MountingHole
H7
MountingHole
solar energy racers
Solar Energy Racers
Sheet: /
File: AuxController.kicad_sch
Title: Steeringwheel AuxController
Size: A4
Date: 2025–11–01
Rev: 0
KiCad E.D.A. 9.0.4
Id: 1/12

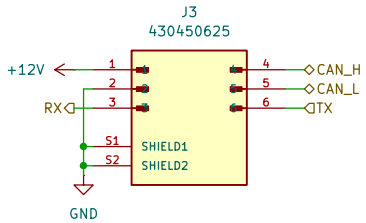


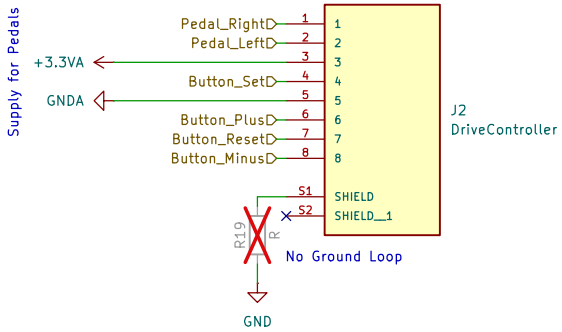
Solar Energy Racers

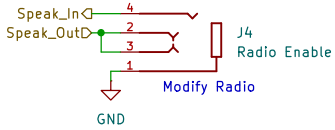
Sheet: /Buttons and Switches/
File: buttons.kicad_sch

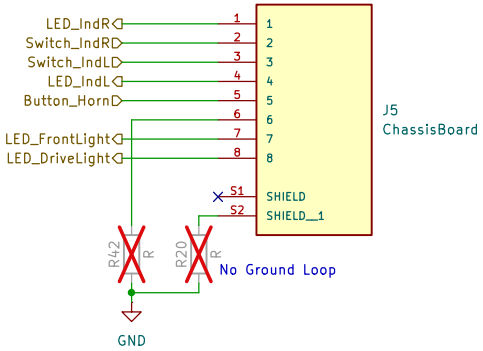
Title: Steeringwheel Buttons

Size: A4	Date: 2025-11-01	**Rev: 0**
KiCad E.D.A. 9.0.4		Id: 2/12







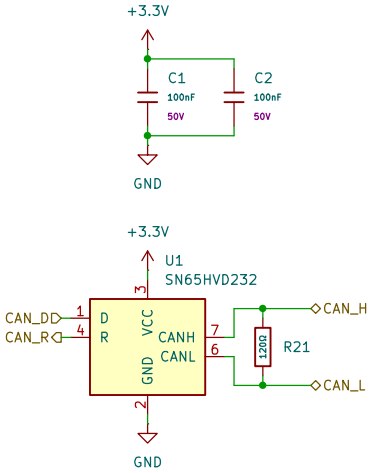


Solar Energy Racers

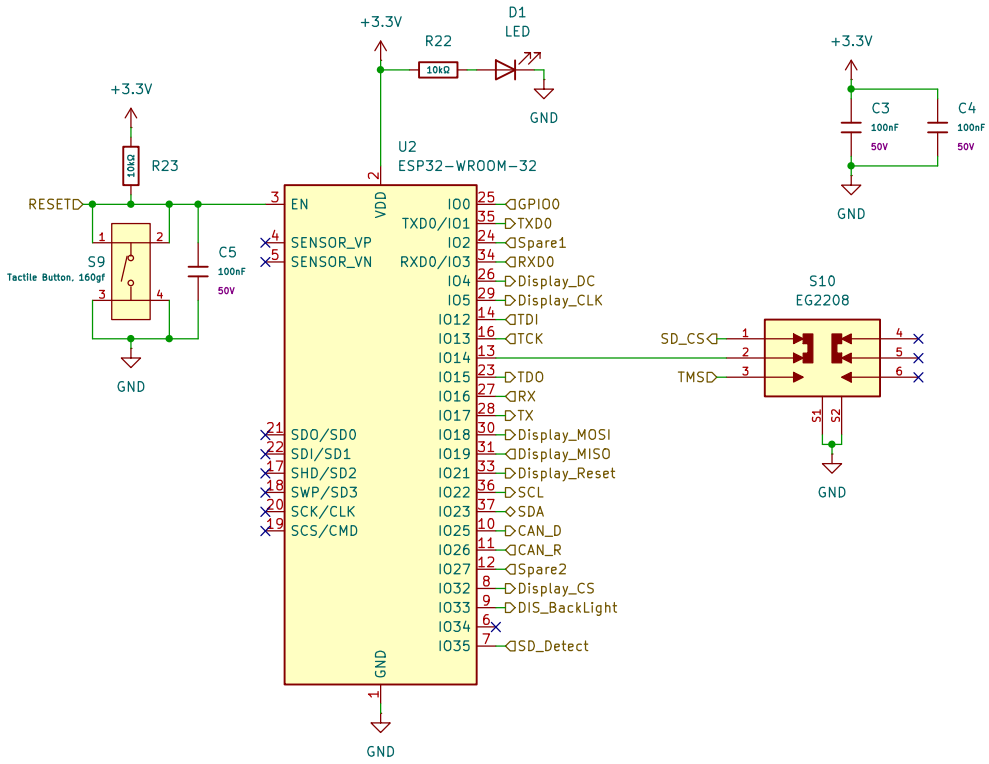
Sheet: /Connectors/
File: connectors.kicad_sch

Title: Connectors

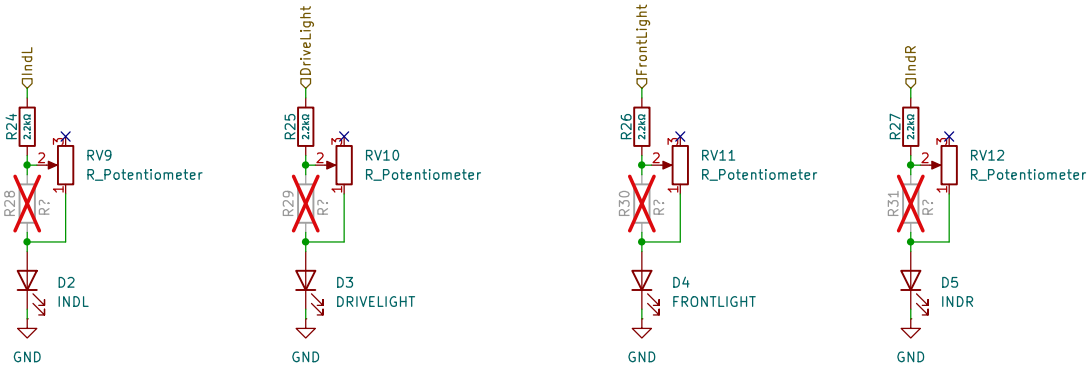
Size: A4	Date: 2025-11-01	**Rev: 0**
KiCad E.D.A. 9.0.4		Id: 3/12



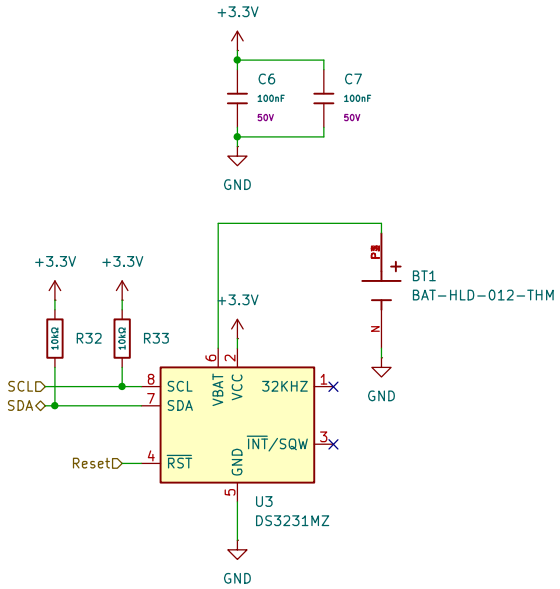
Solar Energy Racers		
Sheet: /CAN_Transceiver/		
File: can.kicad_sch		
Title: CAN Transciever		
Size: A4	Date: 2025-11-01	**Rev: 0**
KiCad E.D.A. 9.0.4		Id: 4/12



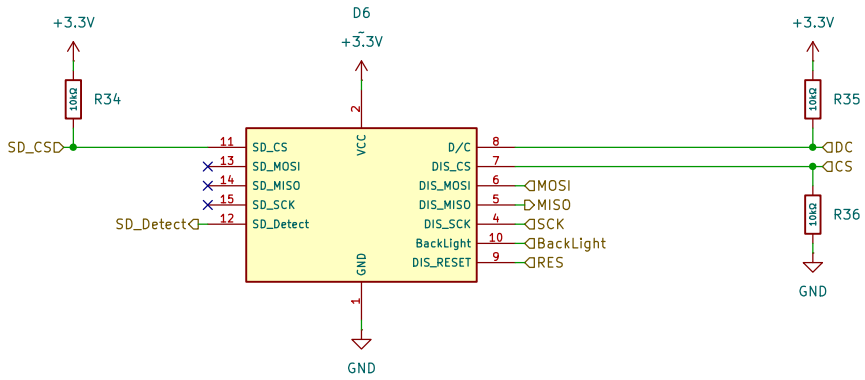
Solar Energy Racers		
Sheet: /MCU ESP32/		
File: mcu.kicad_sch		
Title: ESP32 Microcontroller		
Size: A4	Date: 2025-11-01	**Rev: 0**
KiCad E.D.A. 9.0.4		Id: 5/12



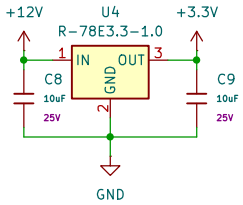
Solar Energy Racers		
Sheet: /LEDs/ File: leds.kicad_sch		
Title: Feedback LEDs		
Size: A4	Date: 2025-11-01	**Rev: 0**
KiCad E.D.A. 9.0.4		Id: 6/12



Solar Energy Racers		
Sheet: /RTC/ File: rtc.kicad_sch		
Title: RTC		
Size: A4	Date: 2025-11-01	**Rev: 0**
KiCad E.D.A. 9.0.4		Id: 7/12



Solar Energy Racers		
Sheet: /Display/ File: display.kicad_sch		
Title: Display		
Size: A4	Date: 2025-11-01	**Rev: 0**
KiCad E.D.A. 9.0.4		Id: 8/12

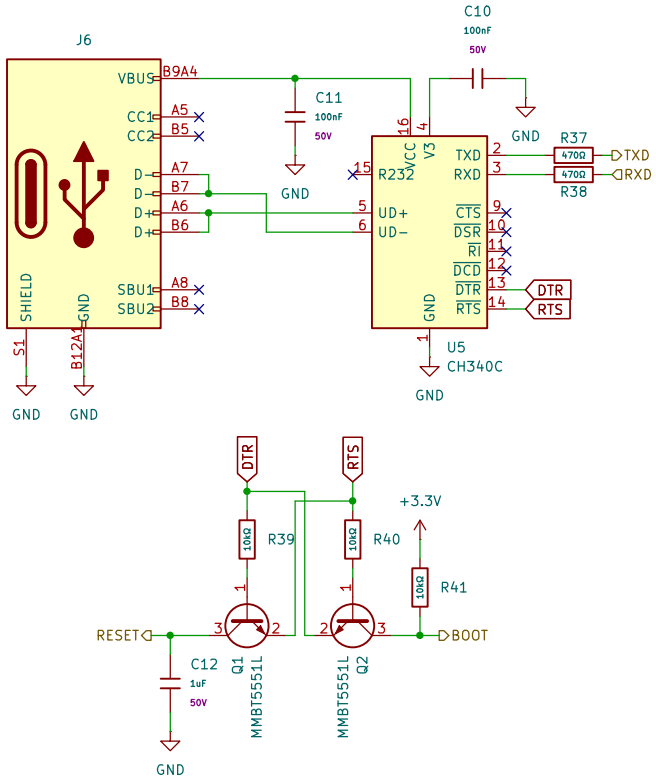


Solar Energy Racers

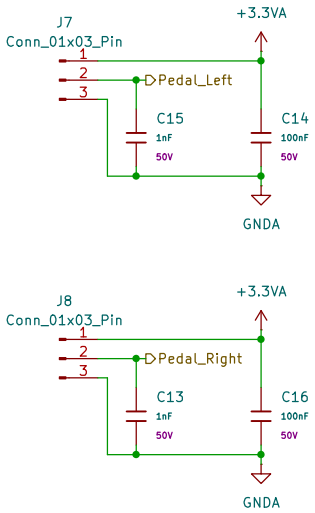
Sheet: /Power Supply/
File: powersupply.kicad_sch

Title: Power Supply

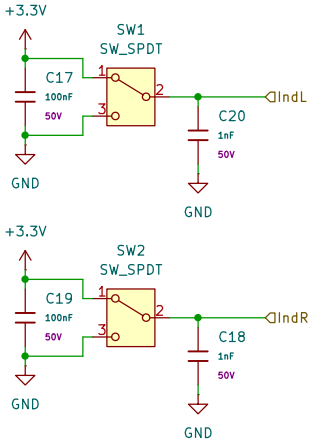
Size: A4	Date: 2025-11-01	**Rev: 0**
KiCad E.D.A. 9.0.4		Id: 9/12



Solar Energy Racers		
Sheet: /USB-C interface/ File: usb.kicad_sch		
Title: USB-C		
Size: A4	Date: 2025-11-01	**Rev: 0**
KiCad E.D.A. 9.0.4		Id: 10/12



Solar Energy Racers		
Sheet: /Pedals/ File: pedals.kicad_sch		
Title: Pedals		
Size: A4	Date: 2025-11-01	**Rev: 0**
KiCad E.D.A. 9.0.4		Id: 11/12



Solar Energy Racers

Sheet: /Indicator Switches/
File: indsw.kicad_sch

Title: Indicator Switches

Size: A4	Date: 2025-11-01	**Rev: 0**
KiCad E.D.A. 9.0.4		Id: 13/12